


## TV/ Moraine Valley Community College

Changing Lives for a Changing World

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curriculum course structure and content, and other matters within its control.

MORAINE VALLEY COMMUNITY COLLEGE


Welcome to Moraine Valley Community College. You've made a wise decision to pursue your education at one of the nation's finest community colleges. You are joining the thousands of Moraine Valley graduates who discovered a place close to home, where they could improve their lives, prepare for fulfilling careers, pursue new interests, and expand their horizons through our many educational and cultural opportunities.

At Moraine Valley, we are committed to helping you succeed. Our highly qualified faculty members bring a wealth of knowledge and experience to the classroom. We have cutting-edge technology to ensure you gain the skills and knowledge you'll need to stand out in today's competitive job market. In addition, we offer numerous support services to help make your dreams a reality.

We are the second largest community college in Illinois. In fact, one-third of our district's high school students choose to come to Moraine Valley to start their college education, complete their associate's degree or pursue industry certification. Our career graduates consistently score high on national certification exams, and our transfer students often perform better than other students when they go on to four-year colleges and universities.

I am gratified to report that nearly 100 percent of our graduates say they would recommend us to a friend. But we have never been content to rest on our laurels-we constantly strive to develop new programs and services that will best suit the needs of our diverse student population and district communities. We recently completed an ambitious campus expansion project, which increased our facilities, both on our main campus in Palos Hills and at our newest extension center in Tinley Park. We offer many of the amenities you would find at a large four-year institution without the prohibitive tuition costs. You also will find a wealth of extracurricular activities, which allow you to broaden your interests and meet new people.

This catalog provides information on Moraine Valley's array of programs and services. Whether you plan to transfer to a fouryear institution, prepare for a new career, or upgrade your job skills, you'll find the resources you need to be successful.

On behalf of our Board of Trustees, faculty, and staff, I wish you the best as you pursue your educational goals. I am proud to welcome you to the Moraine Valley community, where we are truly changing lives for a changing world.

Sincerely,


President
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Produced by the Moraine Valley Community College Marketing and Creative Services Department.

## Academic Calendar

This is the primary calendar for most classes. Some classes are scheduled differently.

## Fall Semester 2011

May 2-Aug. 22 Registration and orientation
Aug. 22 On-campus credit classes begin
Aug. 29 Off-campus credit classes begin
Aug. 29 On-campus continuing education classes begin
Sept. 5
Labor Day holiday, no classes
Sept. $6 \quad$ Off-campus continuing education classes begin
Oct. 18 Staff development day, no classes
Nov. 23-27 Thanksgiving break, no classes
Nov 28
Classes resume
Dec. 9-15 Final exam week
Dec. 16 End of semester
Spring Semester 2012
Nov. 27-Jan. 17 Registration and orientation
Jan. 16 Martin L. King Day holiday, no classes
Jan. 17 On-campus credit classes begin
Jan. 23 Off-campus credit classes begin
Jan. 23 On-campus continuing education classes begin
Jan. 30 Off-campus continuing education classes begin
Feb. 20 Presidents' Day holiday, no classes
Feb. 28 Staff development day, no classes
March 12-18 Spring break, no classes
March $19 \quad$ Classes resume
April 6-8 No classes
April $9 \quad$ Classes resume
May 11-17 Final exam week
May 18 End of semester
May 18 Graduation

## Summer Semester 2012

April 16-June 11 Registration

| May 21 | Three-week pre-session begins |
| :--- | :--- |
| May 28 | Memorial Day holiday, no classes |
| June10 | End of three-week pre-session |
| June 11 | Eight-week and first four-week sessions begin |
| June 11 | Continuing education classes begin |
| July 4 | Independence Day holiday, no classes |
| July 8 | End of first four-week session |
| July 9 | Second four-week session begins |
| Aug. 3 | End of semester |

Fall Semester 2012
May 7-Aug. 20 Registration and orientation
Aug. 20 On-campus credit classes begin
Aug. 27 Off-campus credit classes begin
Aug. 27 On-campus continuing education classes begin
Sept. 3 Labor Day holiday, no classes
Sept. $4 \quad$ Off-campus continuing education classes begin
Oct. 16 Staff development day, no classes
Nov. 21-25 Thanksgiving break, no classes
Nov. $26 \quad$ Classes resume
Dec. 7-13 Final exam week
Dec. 14

End of semester

## Spring Semester 2013

Nov. 26-Jan. 14 Registration and orientation
Jan. 14
Jan. 21 Martin L. King Day holiday, no classes
Jan. $22 \quad$ Off-campus credit classes begin
Jan. 22 On-campus continuing education classes begin
Jan. 28 Off-campus continuing education classes begin
Feb. 18 Presidents' Day holiday, no classes
Feb. 26 Staff development day, no classes
March 11-17 Spring break, no classes
March 18 Classes resume
March 29-31 No classes
April 1
May 10-16
May 17
May 17

Classes resume
Final exam week
End of semester
Graduation

## Summer Semester 2013

April 15-June 10 Registration
May 20 Three-week pre-session begins
May 27 Memorial Day holiday, no classes
June $9 \quad$ End of three-week pre-session
June 10 Eight-week and first four-week sessions begin
June $10 \quad$ Continuing education classes begin
July $4 \quad$ Independence Day holiday, no classes
July 7 End of first four-week session
July $8 \quad$ Second four-week session begins
Aug. 2 End of semester
Fall Semester 2013
May 6-Aug. 26 Registration and orientation
Aug. 26 On-campus credit classes begin
Sept. $3 \quad$ Off-campus credit classes begin
Sept. 3 On-campus continuing education classes begin
Sept. 2 Labor Day holiday, no classes
Sept. $9 \quad$ Off-campus continuing education classes begin
Oct. 15 Staff development day, no classes
Nov. 27-Dec. 1 Thanksgiving break, no classes
Dec. $2 \quad$ Classes resume
Dec. 13-19 Final exam week
Dec. 20 End of semester

## Moraine Valley at a Glance

Moraine Valley Community College is one of the nation's leading community colleges, with a proud tradition of meeting the diverse needs of our students. The college offers a variety of programs and services specifically designed to help students succeed in their academic, personal and professional pursuits.

Students choose Moraine Valley for a variety of reasons, but the most important include excellent faculty, small class size, up-todate curriculum and equipment, affordable cost, convenience, and safe environment.

## History/Overview

Moraine Valley was founded in 1967, and has established a tradition of serving students and the community. The second largest community college in Illinois, Moraine Valley has a diversity of students of all ages and with many educational goals.

The college offers more than 110 degree and certificate programs that provide students the first two years of an undergraduate degree or for transfer to a four-year college or university, or for immediate employment or job skills upgrades through short-term training. In addition, Moraine Valley offers continuing education opportunities, cultural activities, and other programs and services to benefit all residents of the community, regardless of age.

Moraine Valley is a public, postsecondary institution committed to providing quality education to communities located in the southwest suburban area of Cook County.

The 294-acre, university-like campus is located in Palos Hills in a valley cut by a glacier. The college gets its name from its location - where the Valparaiso and Tinley moraines meet to form a valley.

## Faculty

The faculty members at Moraine Valley are highly qualified professionals who are focused on students' goals and success. Faculty members have advanced degrees from prestigious universities around the world and have a wealth of experience in their chosen fields. Many have gained national reputations as scholars and researchers, artists, writers, and in other professions.

## Student Body

The more than 35,000 students who annually study at Moraine Valley come mainly from the southwest suburbs of Chicago. However, the college welcomes students from other communities, states and nations. With students from 42 countries, Moraine Valley is committed to fostering an academic atmosphere that encourages and respects diversity. The average age of students is 25 ; with 55 percent female, and 46 percent male. Eight out of 10 students attend classes primarily during the day, while 20 percent attend classes in the evening or on weekends. At least 85 percent of students work either full- or part-time while attending the college.

## Facilities

The college campus includes nine academic buildings and a Fine and Performing Arts Center that features an art gallery, fine arts studios, rehearsal rooms, and two theaters. The Library provides a variety of services and resources to help students attain educational goals. The collection numbers more than 121,000 items, including electronic databases, books, magazines, microfilm, DVDs and other audiovisual software, government publications, and other research tools. Most college classes are equipped with current instructional technology to help students learn, and the college has several computer labs available for student use. The Bob and Marge Bobb Social/Cultural Lounge is located in the Student Union and convenient to the food service. CyberCafés, with free Internet access for students, are popular destinations in Buildings D and U.

Moraine Valley offers credit and noncredit classes at eight extension centers throughout the college district. The full-service Moraine Valley Education Center at Blue Island and Southwest Education Center, offers day, evening and Saturday classes; a CyberCafé, modern classrooms; convenient parking; and student support services.

## Academic Calendar

Moraine Valley's academic calendar includes a 17-week fall semester, a 17-week spring semester, a three-week summer presession, and four-week and eight-week summer sessions. Throughout the year, the college offers a wide array of shorterterm classes. Courses are offered in the morning, afternoon, evening, weekends, and in alternative formats such as online and telecourses.

## Objectives

Through special services and programs, Moraine Valley strives to reach its objectives, which are to provide the following:

- college transfer programs for freshmen and sophomores who will go on to a four-year college or university to earn a bachelor's degree;
- occupational and technical education that prepares students for entry or job upgrades in professional and technical fields;
- enrichment programs and services for those who need to overcome academic deficiencies or who will benefit from special programs;
- advising and counseling services to help students and potential students with career planning, college work or personal concerns;
- community education, including noncredit courses, workshops and seminars; cultural offerings; and community development programs; and
- workforce development and customized training programs for business and industry.


## Accreditation and Recognition

Moraine Valley Community College District 524 is recognized for our academic quality by many national, regional and state agencies.

The college is accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools.
(ncah/c.org, 312-263-0456).
Moraine Valley is recognized by the Illinois Board of Higher Education and by the Illinois Community College Board. In addition, the college is a member of the American Association of Community Colleges, as well as the League for Innovation in the Community College, a national group of 19 community college districts recognized for their innovative practices. Moraine Valley was selected as one of only 12 Vanguard Learning Colleges in North America by the Pew Foundation. The college is proud to participate in this student-centered initiative, further advancing teaching and learning at Moraine Valley.

Moraine Valley is approved by the State Approval Agency for Veterans Education, Illinois Department of Veteran Affairs (Title 38, U.S. Code).

The college's allied health, nursing and other career programs are accredited by appropriate agencies. Program accreditations are included with their descriptions in this catalog.

## Statement of Mission and Purpose

The mission of our college is to educate the whole person in a learning-centered environment, recognizing our responsibilities to one another, to our community, and to the world we share. We value excellence in teaching, learning and service as we maintain sensitivity to our role in a global, multicultural community. We are committed to continuous improvement and dedicated to providing accessible, affordable, and diverse learning opportunities and environments.
The college fulfills its educational mission through:
General Education - courses and concepts integrated into the curriculum that foster critical thinking and enable informed judgment and decision making

Transfer Programs - courses in arts, sciences and business leading to an associate's degree and fulfilling the first two years of a bachelor's degree

Career Education - occupational courses and skill development that respond to industry and community needs and lead to professional credentials, a certificate or an Associate in Applied Science degree

Community Enrichment - opportunities for residents to engage in lifelong education and cultural enrichment in a learning community

Workforce Development - partnerships with, and customized training for, business, government, social, and civic institutions resulting in organizational and economic improvement

Student Development - programs and services to support and enhance academic, career, and personal growth and success for our diverse student population

Developmental and Enrichment Education - courses, programs and services to support and advance academic success leading to high school equivalency, English language proficiency, or entry to college-level courses

## Promise Statement

We promise to provide a student-centered environment and to focus all college staff and resources on student learning, student development and student success.

## Core Values

Moraine Valley Community College identified these core values that guide the institution in the development and implementation of our mission, goals, philosophy, and operational procedures.

Integrity • Responsibility • Respect • Fairness • Diversity

## Institutional Effectiveness

Moraine Valley demonstrates our commitment to continuously improving all programs and services through our Vision and Mission Statements, and Strategic Priorities. In addition, the college demonstrates its commitment to institutional effectiveness by participating in the Higher Learning Commission's continuous improvement re-accreditation process entitled Academic Quality Improvement Program (AQIP). As an AQIP institution, the college participates in a structured set of goal-setting, networking, and accountability activities that are focused on increasing student success by continuously improving our programs, services and processes.

## Assessment of Student Academic Achievement

Moraine Valley has a strong and sustained commitment to the assessment of student learning. The primary purpose of assessment is to generate useful information about students' academic achievement to make decisions leading to improved student learning. The college recognizes that students can play an active role in their learning by participating fully in the assessment process in the classroom, developing self-assessment skills, and working with the instructor as a partner in learning.

## Vision Statement

We envision a world-class college that meets current and emerging community needs for education and training through excellent service and outstanding programs offered in stimulating learning environments.

## Did you know?

- 99 percent of Moraine Valley graduates would recommend the college to a friend.
- About 40 percent of all first-time college freshmen attend community colleges.
- Students in Moraine Valley's health programs consistently exceed the national pass rates for certification exams.
- Community colleges award more than 600,000 associate's degrees and more than 325,000 career certificates annually.
- 4 percent of Moraine Valley students already have earned a bachelor's degree.
- The average class size at Moraine Valley is 23 students.
- Approximately 39 percent of full-time Moraine Valley students receive some form of financial aid.
- Moraine Valley ranks in the top 8 percent among the 1,132 community colleges nationwide in associate's degrees and certificates conferred.
- Moraine Valley ranks third in the nation in associate degrees conferred in multi-disciplinary studies (science transfer programs).
- At least 85 percent of Moraine Valley students work either fullor part-time.
- 84 percent of Moraine Valley's occupational graduates are employed.
- 85 percent of Moraine Valley students work while attending school.
- Moraine Valley is the second largest community college in Illinois.


Alsip
Bedford Park
Blue Island
Bridgeview
Burbank
Calumet Park
Chicago Ridge
Crestwood
Evergreen Park
Forest View (part)
Hickory Hills
Hometown
Justice
Merrionette Park
Oak Forest (part)
Oak Lawn
Orland Hills
Orland Park
Palos Heights
Palos Hills
Palos Park
Robbins
Summit
Tinley Park (part)
Willow Springs (part)
Worth

## District

The equalized assessed valuation for the college district for tax year 2009 was \$12,746,484,863.

Moraine Valley Community College District 524 covers 139 square miles and all or part of the 26 south suburban communities at right, representing a population of nearly 400,000.

Campus Map


Extension Center Map

(1)

MVCC
Moraine Valley Community College
2) EPHS

Evergreen Park High School
(3) DEHS

Dwight D. Eisenhower High School

## ECBI

(4) Moraine Valley Education Center at Blue Island

5 SWEC
Southwest Education Center
Telephone GuideAll telephone numbers are area code 708.
Academic Advising Center, S201 ..... 974-5721
Academic Outreach, B260. ..... 974-5710
Academic Skills Center, L200 ..... 974-5340
Admissions, S101 ..... 974-5355
Adult Basic Education, B260 ..... 974-5340
Athletics Office, G217 ..... 974-5727
Bookstore, D144 ..... 974-5716
Box Office, F110 ..... 974-5500
Blue Island ABE class info ..... 597-2273
Café Moraine, U109. ..... 974-5745
Career Programs, B150 ..... 974-5708
Cashier's Office, S105 ..... 974-5715
Center for Disability Services, S114 ..... 974-5711
Children's Learning Center, S131 ..... 974-5729
Counseling and Career Development Center, S2O2 ..... 974-5722
Cybercafé, D159 ..... 974-5610
Education Center at Blue Island ..... 974-5300
Enrichment Programs and Services, B260 ..... 974-5646
Espresso Love Specialty Coffee
Building C, first floor ..... 974-5399
Building D ..... 974-5314
Building L, first floor. ..... 974-5649
Building L, inside library ..... 608-4213
Financial Aid, S107 ..... 974-5726
Fine and Performing Arts Center ..... 974-5350
GED hotline recorded message ..... 608-4422
Health Fitness Center, G210 ..... 974-5701
Honors Program, B260 ..... 974-5710
Illinois workNet Center, Moraine Affiliate, T100. ..... 974-5738
International Student Affairs, S217 ..... 974-5443
Job Resource Center, S202 ..... 974-5737
Liberal Arts, B240 ..... 974-5464
Liberal Arts, F130 ..... 974-5637
Library, L, 2nd Floor ..... 974-5709
Moraine Business and Conference Center. ..... 974-5690
Multicultural Student Affairs, S201 ..... 974-5475
New Student Retention, S216. ..... 974-5277
Off-Campus Classes, B260 ..... 974-5710
Online Learning, L244. ..... 608-4355
Photo I.D., S100. ..... 974-5620
Police Dept., Bldg. P ..... 974-5555
Records, S111 ..... 974-5730
Registration, S103 ..... 974-2110
Science, Business, and Computer Technology, C154 ..... 974-5702
Southwest Education Center (Tinley Park) ..... 974-5400
Student Life, U115 ..... 974-5717
Student Support Services (TRIO), S219 ..... 974-5648
Testing Center, B101 ..... 974-5249
TTY (for speech or hearing impaired) ..... 974-9556
Tutoring, L200 ..... 974-5340
Workforce Development and Community Services, T100. ..... 974-5735

## Admission and Registration

Moraine Valley is committed to an "open door" admission policy. It shall admit all high school graduates or the equivalent who demonstrate an ability to benefit from one of its programs, subject only to space limitations. Admission may be denied to an applicant when it is not in the best interest of the college or the applicant to grant admission.

No person will be denied admission to the college or any of its programs on the basis of sex, race, age, national or ethnic origin, religion, disability, or other legally protected characteristics or conduct as stated by federal and state law(s).

Once admitted, students may select courses or programs according to their interests and abilities. These are determined by evaluating the individual student's high school experiences, previous test scores, and college assessment results. Moraine Valley provides advising and counseling services to help each student choose an appropriate field of study according to individual abilities and interests. With some programs, particularly the Health Science programs, space may not be available for all applicants. See Admission to Health Science Career Programs in this section for more information.

Residency—A resident must live in the Moraine Valley Community College district at least 30 days prior to the start of the semester and meet at least one of these criteria:

- Under 18 whose parents or legal guardians reside in the college district;
- Under 18 who is married and who is established in a permanent family residence in the district;
- Under 18 who resides in the district in a dwelling he or she has purchased; and/or
- 18 or older who resides in the district, providing residence was not for the sole purpose of attending college.
- No residency requirements for ABE/GED/ESL classes.

Refer to the Moraine Valley at a Glance section of this catalog for a map of the Moraine Valley district. To verify your residency status, call (708) 974-2110.

Tuition rates are determined by the legal residence of the student. These rates are lower for residents of the Moraine Valley Community College district than they are for out-of-district residents who attend Moraine Valley. A student who temporarily moves into the district for the purpose of attending the college at a reduced tuition rate will not be considered as having established a bona fide residence within the district.

It is the student's responsibility to demonstrate residency status. A student may be asked to display verification of residence before class registration can be completed. The following documents may be presented to verify residency: property tax statement, driver's license, Illinois state ID card, vehicle registration, copy of lease or purchase agreement, utility bill, or voter's registration card. Documents or bills that are used to verify residence are required to be in the student's name.

Residency status is determined at the time of registration. It will not be changed after the refund period for that semester.

The dean of Enrollment Services or a chosen representative will determine whether an applicant meets the residency criterion.

International Students-For international student admission procedures, see the International Student Affairs section, page 25.

Admission-A regularly admitted student is one who completes the college's admission process. The admission process is not completed until the following has been submitted:

- a completed enrollment form (available at morainevalley.edu) with all required information.
- a final high school transcript, indicating the date on which the student graduated, or a General Educational Development (GED) certificate or an official report of qualifying GED scores.
- all college transcripts, if applicable.
- completion of standardized placement tests prior to orientation/registration time. The American College Test (ACT) generally is not required, but may be used to assist in the counseling and placement of students, and for admission to designated programs.


## Admission to Associate in Arts or Associate in Science Transfer

 Degree Programs-Students enrolling in Associate in Arts or Associate in Science transfer degree programs must have completed the minimum high school course requirements as outlined in the following section, in accordance with Illinois Public Act 86-0954. Students who do not meet these requirements will be considered provisionally admitted until such time that all academic deficiencies have been removed as outlined by the college. These requirements will be waived for (a) students who submit college transcripts showing successful completion, with a grade of "C" or better, of 24 semester hours of transfer college credit at the 100 level or above; and (b) students who successfully complete the GED exam.
## High School Course Requirements for Admission to Transfer Degree Programs

| Subject |  | Description |
| :---: | :---: | :---: |
| English | 4 | Emphasizing written and oral communication and literature |
| Social Studies | 2 | At least one year of United States history or a combination of U.S. history and American government; other acceptable subjects are anthropology, economics, geography, psychology, and sociology |
| Mathematics | 2 | Introductory through advanced algebra, geometry, trigonometry or fundamentals of computer programming |
| Science | 2 | Selected from biology, chemistry, earth science, and physics (laboratory science) |
| Electives | 2 | Foreign language, music, art, and/or vocational education |
| Flexible | 3 | Additional English, social studies, mathematics, |
| Academic |  | science, foreign language, music, art, and/or |
| Units |  | vocational education |

Transfer from Other Colleges-A transfer student must complete the college admission process. Students intending to obtain transfer credit must submit an official college transcript from each college attended to the Records Office. Transfer credit earned from regionally accredited colleges and universities will be accepted in accordance with Moraine Valley admissions policies.

Transcript Evaluations-Before an evaluation can be done, an evaluation request form must be submitted to the Records Office, and the student must be currently registered in Moraine Valley credit classes. Evaluation request forms are available in S101 and S103, as well as on the Web site. Official transcripts must be sent to Moraine Valley directly from the transferring institution. Evaluations take six weeks after receipt of all materials.

Readmission-Any student who has not been enrolled at Moraine Valley for one or more semesters must be readmitted to the college. The student is required to submit updated enrollment information to the Registration Office. If the student has attended one or more colleges during this interim period, official transcripts for all academic work taken since last attending Moraine Valley must be submitted.
If enrollment has been interrupted by six or more consecutive semesters (including summer semesters), the student must meet the degree or certificate requirements in effect at the time of re-enrollment with earned credit (earned credit is defined as receiving a " D " or above in college-level or developmental courses) or the requirements in effect during any subsequent year after re-enrollment until the degree or certificate is completed. Exceptions are the selective admission programs. Students who are readmitted to these programs must follow the requirements in effect at the time of their readmission to the program.

High School Students-Students still in high school, 16 or older, may be admitted to college classes if facilities are available and if there is sufficient evidence that they can benefit from instruction. To be accepted, the student must submit completed admission information and a high school student authorization form signed by the appropriate high school official. Forms shall be returned to the Registration Office and presented at the time of registration. Those seeking an exception to the college policy must contact the dean of Enrollment Services. All courses taken at Moraine Valley will become part of the student's permanent record.

Admission to Honors Program-After you apply for admission to the college, complete the Honors Program application available in B260 or online at morainevalley.edu/honorsprogram. You'll need to meet two of the following prerequisites to enroll in the Honors Program:

- a 3.2 GPA from your high school
- an ACT score of 25 or SAT score of 1050 (composite)
- completion of at least one AP course with an A or B (AP score 4)
- graduation in the top 10 percent of your high school class

Students need to present verification that they meet admission requirements. After that, students are eligible to register for honors courses. For more information, contact the Honors Program at (708) 974-5710 or morainevalley.edu/honorsprogram.
Admission to Health Science Career Programs-Health Information Technology, Radiologic Technology, Respiratory Therapy Technology, and Nursing are health career programs leading to an Associate in Applied Science degree. Polysomnography is a health science certificate program. All of these programs have special admission requirements and limited enrollment. Applicants are responsible for ensuring that all admission requirements are met, and all documents and scores are submitted on time. Only complete application files will be reviewed for admission.

As part of the admission process, most health science programs require that students submit a health history and physical evaluation. Students may also be required to complete a criminal background check. Students also may be required to have current medical insurance.

General information and program requirements may be found in the Career Programs section of this catalog and on the career program worksheet available online at morainevalley.edu/ programs or from the Academic Advising Center.

## Admission Requirements

Documents Required for a Complete File for All Associates Degree Health Science Programs

- A completed program admission application by specified deadline (an application to the specific health program of your choice is available and must be returned in the Admissions Office).
- A complete high school transcript showing date of graduation or a GED certificate.
- Official transcripts from all colleges or universities previously attended.
- Academic Placement results documenting required level of placement as defined by each program.
- Proof of residency must be submitted at the time of application.


## Academic Requirements for Specific Health Science Career Programs

## Health Information Technology

- One year of high school biology with lab, or one semester of college biology with lab, with a grade of " $C$ " or above.
- One year of high school algebra. Moraine Valley course MTH095 or above, or an equivalent course at another college, with a grade of "C" or above.
- Keyboarding proficiency of 30 words per minute.
- A minimum overall grade point average of 2.0 based on a fourpoint system.


## Nursing

For complete information about the Nursing Program application and selection processes, please refer to the Nursing Program website.

## Application process

- Attend an information session
- Submit the Moraine Valley college enrollment form
- Complete placement and admission tests
- Submit a Nursing Application
- Submit Transcripts and Proof of current CNA certification to the Registrar's Office (Records Department)


## Selection Process

- Ranking score:

Points will be awarded based on:
o ATI-TEAS scores in Math and Science
o For College BIO-180 Anatomy and Physiology I point(s) will be awarded based on the final grade: " C " = 1 point, " B " $=2$ points, " A " $=3$ points. Completion of BIO-180 with a "C" or better is a requirement for the application and admission process.

See page 124 for further details.

## Polysomnography Technology

- One year of high school biology with lab, or one semester of college biology with lab, with a grade of "C" or above.
- One year of high school algebra, Moraine Valley course MTH095 or above, or an equivalent course at another college, with a grade of "C" or above.
- A minimum grade point average of 2.5 based on a four-point system.


## Radiologic Technology

- One year of high school biology with lab, or one semester of college biology with lab, with a grade of "C" or above.
- One year of high school algebra, Moraine Valley course MTH095 or above, or an equivalent course at another college, with a grade of "C" or above.
- A minimum grade point average of 2.0 based on a four-point system.


## Respiratory Therapy Technology

- One year of high school general biology with lab, or one semester of college biology with lab, with a grade of " C " or above.
- One year of high school algebra with a grade of "C" or above, must qualify to take Moraine Valley course MTH-109 or above, or an equivalent course at another college.
- A minimum grade point average of 2.5 based on a four-point system.


## Selection Criteria

- Selection of qualified applicants is completed by employing a system using GPA, number of college hours completed and grades in program-specific course work. The high school grade point average will be used for the applicant who has attempted less than 12 semester hours of college-level credit. More information about the ranking system can be found on the career program worksheet available from the Academic Advising Center.
- Qualified residents of the district will be given priority.
- The specific program admission application must be submitted by March 1 for programs beginning in fall (August) or Oct. 1 for the spring (January) nursing program. Files need to be completed and proof of program academic requirements must be received within 15 days of original deadline to maintain priority consideration.
- Qualified nonresidents who submit the specific program admission application by March 1 for programs beginning in fall (August) or Oct. 1 for the spring (January) nursing program, who have complete files and proof of program academic requirements within 15 days of original deadline may be selected on a space-available basis.
- On a space-available basis, applicants who did not meet all admission requirements of the deadline may be considered after March 15 or Oct. 15.


## Transfer Students

- Placement is considered on an individual basis.
- Obtain and complete a transfer evaluation request available from the Records Office.
- See Academic Advising Center for general education information.
- See coordinator of specific associate's degree health career program for evaluation of career course work.


## Reapplication

Applicants not selected for one starting class are individually responsible for reactivating and updating their application file for subsequent starting classes. Reapplicants must complete a readmission form and submit it to the Records Office during the applicable time period.

## Readmission

See specific program in the Career Programs section of this catalog.

## Academic Placement Tests/Orientation

Full-time Students-Students registering for 12 or more credit hours are required to complete placement tests in reading, writing and mathematics, and participate in an orientation program prior to their first registration. Students may be exempt from placement testing if they meet the following requirements: completed college-level courses in English and/or mathematics with a "C" or better, or received a score of 20 or higher on the ACT in both the English and reading, and/or the mathematics test. To be considered for an exemption, students need to present a college transcript or grade report/ACT report showing successful completion at the Academic Advising Center or New Student Retention Office. No student will be exempted from this policy based on his or her original date of admission. Information about placement tests and orientation will be given at time of application. A fee is charged for placement tests.

Students who place into RDG-041, RDG-071 or RDG-091 must enroll in that reading course their first semester and continue in the reading sequence until RDG-091 is successfully completed with a grade of "C" or better. Students who place into RDG-041 or RDG-071 must see a counselor or advisor for additional course selections.

## COL-101 Course Requirement

All full-time students are required to enroll in and successfully complete COL-101 unless they have:

- Previously earned at least 30 semester hours of college credit. Credit must be documented on a college transcript or
- Successfully completed Moraine Valley course COL-101 or PSY-100 or
- Successfully completed a course equivalent to COL-101 at another college. Course must be documented on a college transcript.

Part-time Students—Students registering for less than 12 credit hours are required to complete the appropriate placement tests in reading, writing and mathematics prior to registering for English composition courses (COM-090 or higher) and/or any mathematics course (MTH-095 or higher) or they must complete the reading and writing tests after attempting 11 credit hours. Students may be exempt from placement testing if they meet the following requirements: completed college-level courses in English and/or mathematics with a "C" or better, or received a score of 20 or higher on the ACT in both the English and reading, and/or the mathematics test. Students must present a college transcript or grade report/ACT report showing successful
completion to the Academic Advising Center. No student will be exempted from this policy based on his or her original date of admission. Part-time students who need assistance with educational planning and course selection should contact the Academic Advising Center.
Students who place into RDG-041, RDG-071 or RDG-091 must enroll in that reading course their first semester and continue in the reading sequence until RDG-091 is successfully completed with a grade of "C" or better. Students who place into RDG-041 or RDG-071 must see a counselor or advisor for additional course selections.

## Registration

New Students-Once admission steps have been completed, a new student will receive an acceptance letter and information on registration.

Full-time Students-Full-time students (those who plan to enroll in 12 credit hours or more) must complete placement tests and attend orientation. Orientation will include registration for the first semester.
All new full-time students must enroll in COL-101-College: Changes, Challenges, Choices.

Part-time Students-Part-time students may register in person, by telephone, or online from the Web site. Students who need assistance with educational planning and course selection may attend an advising session. Students who enroll in composition and/or mathematics courses are required to take placement tests in these areas. A fee is charged for these tests. Specific dates for registration are announced in the class schedule sent to every household in the college district prior to the start of each semester and are available on the college Web site at morainevalley.edu.

Currently Enrolled Students-Currently enrolled students receive priority registration dates for the fall and spring semesters. Academic information for registration is available in the class schedule.
Workforce Development and Community Services (Noncredit)— Registration information is listed in the class schedule prior to each semester. Tuition and fees are assigned differently for each course and are noted in the class schedules. Courses designated with adult education credit (AEC) are supported by state and local funds, so out-of-district charges apply to residents who live outside the Moraine Valley district.

Late Registration-A student may register for a course 12 to 17 weeks in length during the first week of the course. The instructor's written permission is required after that period. A student may register for a course five to 11 weeks in length during the first three days of the week that the course begins. The instructor's written permission is required after that period.

A student may register for a course four weeks or less in length the first day of the course. The instructor's written permission is required after that period.

After the midterm date of each class, no registrations will be allowed and no additions will be made to the class roster.

## Tuition and Fees

Moraine Valley strives to make education affordable.
Tuition-Tuition is assessed on the basis of residency at the time of registration.

| Residency Status: | In-District | Effective Fall 2011 |
| :--- | :--- | :--- |
| Rate per Credit Hour: | $\$ 95$ | $\$ 99$ |
| Residency Status: | Out-of-District |  |
| Rate per Credit Hour: | $\$ 242$ | $\$ 246$ |
| Residency Status: | Out-of-State |  |
| Rate per Credit Hour: | $\$ 284$ | $\$ 288$ |
| Residency Status: International <br> Rate per Credit Hour: $\$ 284$ | $\$ 288$ |  |

Students who are employed within the Moraine Valley Community College district a minimum of 35 hours per week may qualify for in-district rates. Proof of employment, which consists of a letter from the place of business on company letterhead and two current pay stubs, will be required each semester.

Rate Changes-Although the college tries to maintain stable tuition and fee rates, the rates are subject to change without notice.

College Activities Fee-A college activities fee of $\$ 2$ per credit hour must be paid with tuition.

Technology Fee-A technology fee of \$3 per credit hour must be paid with tuition. Effective fall 2011, the fee is $\$ 7$ per credit hour.

Billing Information-Students should see MVConnect campus portal for billing due dates and payment information. A link to MVConnect is available from the Moraine Valley's website at morainevalley.edu.

Photo ID Policy-A student is eligible to receive a student photo ID upon completion of course registration. The photo ID fee of $\$ 3$ per semester must be paid with tuition. Students will need to produce a current photo identification and proof of registration at Moraine Valley to obtain a student ID. Student ID replacement fee is $\$ 5$ per request.

Students should maintain possession of their photo ID despite enrollment status. The photo ID will be continuously updated for two years or six semesters, following initial issue. After the completion of the second year and/or the sixth semester, a student is eligible to have a new ID issued, at no charge, subject to the same terms as the original ID.

Returning students previously issued a photo ID may be eligible for a new photo ID at no charge if at least 12 months have lapsed since last enrollment.
Lost, misplaced, stolen, or damaged ID cards within two years of issuance are subject to a $\$ 5$ replacement fee. Note: the only exception will be those students noted above with a 12-month enrollment lapse.
Fees-Additional fees are required for some instructional programs and courses. These fees may cover laboratory equipment, supplies and malpractice insurance.
Other college fees include the following:
Transcript........................................................................ $\$ 5$
Certificate/Degree Petition................................................ 15
Nonsufficient Check ......................................................... 30
Partial Payment/Reinstatement........................................... 25
Late Fee ............................................................................ 50
Tuition and fees are assessed at the time of registration. Visa, MasterCard, American Express, and Discover are accepted.

Full payment can be made either at the time of registration or by the due date. If full or partial payment is not made by the due date, the student's courses may be dropped for nonpayment. A partial payment plan is available. There is a fee for partial payment and for reinstatement. Further information can be obtained in the Cashier's Office.

Senior Citizen Tuition Rates-The tuition rate for residents of the college district who are 62 or older is half the regular tuition rate. Class fees are additional. This rate applies to credit courses only. Proof of age is required at the time of registration. Senior citizens 65 or older whose annual household income is $\$ 13,999$ or less may enroll in credit courses tuition-free. Certain restrictions apply. Further information is available in the Cashier's Office. These criteria are subject to change without notice.

Balance Due-Moraine Valley reserves the right to withhold transcripts and other educational information and documents from students who are in debt to the institution or owe repayment of a federal/state grant.

Cooperative Programs-Moraine Valley has cooperative agreements with several suburban community college districts that enable Moraine Valley district residents to enroll in occupational programs not currently offered by Moraine Valley. See page 148 for more information.

Chargebacks_A resident of the Moraine Valley Community College district may receive a chargeback to attend another Illinois community college if that individual is accepted into a program at another Illinois community college that is not offered by Moraine Valley. Both full-time and part-time attendance is allowed. Chargebacks will only be approved if submitted by the appropriate deadline.

Chargebacks do not apply if:

- You are enrolling in a transfer program.
- A student enrolls in classes that are part of continuing education, general studies, community services, or short-term job training programs (noncredit).
Chargeback requests must be made at least 30 days prior to the anticipated enrollment at another community college. Application forms are available in the Registration Office.

Courses which are remedial (under the 100 level) are not covered under the chargeback agreement. Take remedial courses at your local community college; repeated courses are the student's responsibility and are not covered by chargeback.
Tuition Refund (Credit)—In order to receive a tuition refund, it is the student's responsibility to officially drop courses in the Registration office within the published deadlines. No-shows do not constitute a drop. 100 percent refund for up to 8 percent of the course taken. Contact the Cashier's office for refund dates based on the number of weeks in the class.
Refunds for short-term classes vary according to the length of the course.

A student is entitled to a full refund of tuition and fees for a class cancelled by the college.

Workforce Development and Community Services (Noncredit) Cancellation Policy - It is a student's responsibility to drop a course at least three business days prior to the start of the class to receive a full refund. Classes dropped less than three days before the start of classes will receive no refund. No-shows do not constitute cancellation. No credit may be used toward another section for missed classes.

## Financial Aid

Financial aid is available to Moraine Valley students who prove eligibility and are enrolled in approved programs. Types of funds available to assist students include the following:

## Federal Funds

Pell Grant
Academic Competitiveness Grant (ACG)
Supplemental Educational Opportunity Grant (SEOG)
Work Study Program (FWSP)
Direct Loans (Stafford and PLUS)

## State Funds

Illinois Monetary Award Program
Police/Fire Officer Survivor Grant
Grant Program for Dependents of Correctional Officers

## Military Awards

Veterans Administration (Veterans Educational
Assistance Benefits)
IIlinois Veterans Grant
Illinois National Guard/Naval Militia Grants
MIA/POW Scholarship

## Other Funds

Adjunct Faculty Organization Scholarship
Joanne Casolari Memorial Scholarship
Chicagoland Regional College Program
Jane E. Crawley Scholarship
Faculty Association Scholarship
GED Achievement Scholarship, available to students who completed their GED within the past year and received a GED score of 3000 or higher
GED Award, available to students who completed their GED
within the past year and received a GED score of 2500 or higher
Illinois Health Improvement Association Scholarship
Barbara J. Lehrman Memorial Scholarship
Moraine Valley Distinguished Scholar Award
Moraine Valley Leadership Award
Student Association Book Scholarship
Student Life Award of Excellence
Support Staff Association Scholarship

## Currently, the Moraine Valley Community College Foundation has the following scholarships available:

- Arab American Women Scholarship, available to female Arab students
- Dolores Dalton Mallo Nursing Scholarship, available to students planning to pursue a career in nursing
- Developmental Education Scholarship, available to students with dependent children and pursuing a career through Moraine Valley's Developmental Education department
- Great Lakes Bank Foundation Scholarship, available to students with dependent children and pursuing a career in Business, Nursing, Allied Health or Education
- Dr. James Koeller - Founders Scholarship, available to members of the Moraine Valley Community College Forensics (speech) Team
- Joann Karen Basick Memorial Scholarship, available to female students returning to school after being away from the academic environment for a minimum of 10 years
- Lieutenant Gene Marcheschi Memorial Scholarship, available to students planning to pursue a Degree in Fire Science
- Dr. Patricia M. Bauhs Scholarship, available to students 24 years of age or older
- Palos Orland Area AAUW - Anita Ritzler Scholarship, available to female students 40 years of age or older
- Robert J. Bobb Memorial Scholarship, available to incoming freshman from an in-district high school who is pursuing a degree in business
- Center for Disability Services Scholarship, available to students utilizing the center
- The Hickey Foundation Scholarship, available to single parents enrolled in Moraine Valley's Nursing Program.
- Moraine Valley Alumni Scholarship, available to students who are related to a Moraine Valley graduate
- Moraine Valley GED Graduate Scholarship, available to students who have participated in and attended at least 60 percent of the GED Preparation Program at Moraine Valley
- Sandra Broadbent Memorial Scholarship, available to students who demonstrate a history of outstanding commitment to volunteering in the community
- Subdivision Scholarships, available to students enrolled in college credit courses
- Matthew P. Walsh Scholarship available to students enrolled in college credit courses

Detailed information about these scholarships is available in the Financial Aid Office or at morainevalley.edu/financialaid.

Application for Financial Aid—To apply for financial aid at Moraine Valley, applicants should complete the Free Application for Federal Student Aid and the Moraine Valley date confirmation form. Application forms are available online at fafsa.ed.gov.

Early application enhances students' chances of obtaining financial aid. Qualified applicants whose files are complete by April 1 will receive priority consideration. Since processing financial aid can take up to eight weeks, students must plan well in advance of the time they will begin their course of study. Specific deadlines can be found at morainevalley.edu/financialaid. To qualify for financial aid, a student must meet the following criteria:

- be a citizen of the United States or a permanent resident;
- be enrolled at Moraine Valley in an eligible program which is at least 16 credit hours in length. (Students enrolled only in developmental/remedial classes or the Intensive English Language Program are ineligible.);
- maintain academic standards of progress;
- demonstrate financial need; and
- have the potential to complete the educational program chosen. Must possess a high school diploma or GED certificate. In the absence of these documents, a student must qualify by means of a testing program or successful completion of at least six college credits at Moraine Valley.

Students who qualify for federal and/or state funds will be informed of how and when they will receive their financial aid award via an award letter.
Students who are interested in an educational loan must meet with a financial aid expeditor to initiate the loan process.
Academic Standards of Progress for Recipients of Financial Aid-According to federal and state guidelines, students must maintain satisfactory academic progress to be eligible to receive financial assistance.

Moraine Valley has established the following standards of progress for students receiving federal and state financial assistance:

- To be eligible for financial assistance, students must maintain a minimum cumulative 2.0 grade point average, which includes developmental and remedial courses.
- Students must earn credit (grade of $A, B, C$, or $D$ ) for 67 percent of the cumulative hours in which they enroll.
- A student's eligibility for financial aid at Moraine Valley will terminate when the student has attempted over 93 credit hours. Credit hours attempted include developmental courses, remedial courses, transferred hours, and hours forgiven under the Forgiveness policy.
- Students who transfer hours from another institution which count toward the completion of their program at Moraine Valley will have those hours counted in their maximum of 93 hours attempted.
- Students who apply for financial aid for the first time who have a previous history at Moraine Valley must have a minimum 2.0 cumulative grade point average and have earned 67 percent of hours attempted to be eligible for federal/state funds. The student's record will be reviewed as if he or she had been on aid.

Repeated courses will be counted in hours attempted, but only the most recent grade received will be computed into the grade point average. The hours for the original course will not be added to hours earned.

Courses in which students receive "W" or "I" will count as hours attempted but not as hours earned. They will not be included in the grade point average.

Student records will be reviewed at the end of each semester, including the summer session. If a student's grade point average is below 2.0 and/or the student has earned less than 67 percent of the hours attempted, an e-mail will be sent to the student stating the following:

- The criterion for academic progress has not been met.
- The criterion of 67 percent of cumulative credits earned in relation to hours attempted and a minimum 2.0 cumulative grade point average must be achieved in the next semester of enrollment. If not, the student will not be eligible for federal and/or state financial assistance until such criteria have been met.

Students applying for a Stafford loan must have a cumulative GPA of at least 2.0 for the loan to be disbursed. There is no probationary period or appeal procedure for student borrowers per the college's default management plan.

Procedure for Appeal and Reinstatement-Reinstatement will occur after classes have been taken at the student's own expense, a minimum 2.0 cumulative grade point average has been achieved, and 67 percent of hours attempted have been earned.

If the student is of the opinion that unavoidable circumstances were the cause of lack of achievement, an appeal form for reinstatement of eligibility for federal/state funds may be submitted to the Financial Aid Committee. Appeal forms are available in the Financial Aid Office.
The determination of the appeal will be one of the charges of the Financial Aid Committee.

Refund Policy and Repayment of Financial Aid—According to the updated version (Section 668.22) of the Higher Education Amendments of 1998, students receiving Title IV funds (Federal Pell Grant, Federal ACG, Federal SEOG and Federal Direct Loans) and who withdraw from all their classes (officially or unofficially) will be subject to the federal and Moraine Valley's refund policy.

Moraine Valley Community College's refund policy related to student withdrawal states that it is a student's responsibility to drop a course within published deadlines.
Course dropped within the refund period will not appear on the students record. No-shows do not constitute a drop. 100 percent refund up to 8 percent of the course taken. Contact Cashier's Office for refund dates based on number of weeks in class. A student is entitled to a full refund for any class that is cancelled by the college.

Refunds for short-term classes vary according to the length of the course. More information is available in the Cashier's Office or at morainevalley.edu.

The federal refund policy states that the student may retain only the amount of aid that he/she has earned (as a result of the prorated amount of time the student has been in attendance for the semester.) Any aid that is not earned must be returned to its source. Some federal programs, such as grants, may have smaller amounts to be refunded based on the particular aid program and the student's date of withdrawal. The student will be responsible for any tuition balance resulting from the refund(s).

Further details and examples can be obtained in the Financial Aid Office, S107.

## Veterans

Veterans who enroll in Moraine Valley courses may be eligible for the Illinois Veterans Grant (IVG). Applications are available at collegezone.com. To qualify, a veteran must have met the following conditions:

- been a resident of Illinois prior to and within six months after having served in the armed forces of the United States;
- served at least one year of continuous active duty; and
- received an honorable discharge.

According to state guidelines, students must maintain a minimum cumulative 2.0 grade point average (GPA), which includes developmental and remedial courses, to remain eligible for the grant.

Student records will be reviewed at the end of each semester (including summer). If a student's GPA is below 2.0, a letter will be sent to the student stating the criterion for academic progress has not been met.

A minimum 2.0 cumulative GPA must be achieved in the next semester of enrollment for continued eligibility. A student will not be eligible for the grant until the criterion has been met.

To be eligible for Veterans Administration Educational Benefits (GI Bill), you must be a degree- or certificate-seeking student in an approved accredited transfer/career certificate program and making satisfactory academic progress according to college standards. Applications are available in the Financial Aid Office in S107.

Students receiving Veterans Administration Educational Benefits must attend a mandatory two-hour veterans advising session to ensure you are planning to register for courses that are consistent with your educational and career goals.

Credit for Military Service—Veterans of United States military service may be granted credit for their military service training. Credit is given only to honorably discharged veterans who have one year or more of active military service. To receive credit, a veteran must provide the Records Department with a copy of the Separation Record (Form DD214) and an evaluation request form. Evaluation request forms are available at the information desk in S111.

# Instructional Programs 

Transfer Programs

Associate in Arts (A.A.), Associate in Science (A.S.), Associate in Fine Arts (A.F.A.), and Associate in Arts in Teaching (A.A.T.) programs are for students whose goal is to transfer to a four-year college or university for a bachelor's degree. See the General Education information in this section and the Transfer Programs section of this catalog.

## Career Programs

Associate in Applied Science (A.A.S.) degree programs and certificate programs are for students whose goal is immediate employment upon graduation from Moraine Valley. To expand the number of career programs available to students of the district, Moraine Valley has cooperative agreements with other community colleges. Under these agreements, students may take core courses at the cooperating institution and may take general education courses at Moraine Valley or at the cooperating institution. Credit for some career programs may transfer to four-year colleges and universities. Contact the Academic Advising Center for transfer information.

## Enrichment Programs and Services

Moraine Valley offers basic skills courses in communications, math, and reading that serve students in need of preparation for college-level courses. In addition, the college offers courses/services in English as a Second Language, Intensive English Language, Volunteer Literacy, Public Assistance Coordination for re-entering the work force, Adult Basic Education, and General Educational Development (GED), and academic coordination for the Learning Development Support System. The Dr. Irene H. Brodie Academic Skills Center provides free tutoring, computer labs, and various short-term study skills and writing workshop opportunities.

The college offers classes at off-campus sites and local highschools for dual credit. An honors program offers creative and experiential learning opportunities.

## General Education

The requirements for an associate's degree (A.A., A.S., A.F.A., A.A.T. or A.A.S.) consist of a minimum of 62 credit hours taken from three components: (1) general education core, (2) additional degree requirements, and (3) courses taken in the major/minor field and electives. Course work in the general education core:

- assumes there are some commonalities expected of an "educated person" in terms of what he or she knows and is able to do.
- provides students with the ability to realize their potential as educated, responsible, and productive lifelong learners in a diverse and rapidly changing world.
- consists of a core of intellectual, aesthetic and cultural experiences which will introduce students to essential knowledge, skills and values, and encourage them to make connections across disciplines.

For transfer students (A.A., A.S., A.F.A., A.A.T.), the general education core ranges from 38 to 41 credit hours; for career students (A.A.S.), the core comprises at least 15 credit hours depending on the program of study. Presently, transfer students who complete their A.A., A.S., A.F.A or A.A.T. degree will fulfill most, if not all, of the general education core requirements expected for the baccalaureate degree at a four-year college or university.
Moraine Valley has a standard general education requirement, distributed into the five traditional divisions of knowledge:
a. Communication
b. Mathematics
c. Life and Physical Sciences
d. Humanities and Fine Arts
e. Social and Behavioral Sciences

The specific courses in each division will vary with the student's degree or program, and the type of courses will change occasionally. The student may wish to contact the Academic Advising Center to determine the exact requirements in effect.
While accurate information and advising assistance is always available regarding the general education core requirements, the major responsibility of getting a purposeful general education rests upon each individual student. Thus, students should also familiarize themselves with the General Education Goals and Objectives in the next section that identify the traits of a generally educated person. By understanding these goals and objectives, students can begin to make informed selections of course work.

## General Education Goals and Objectives

The general education program at Moraine Valley is designed to enable students to write, read and listen critically; to investigate, analyze and think independently; to communicate clearly and effectively; to make informed decisions; to respect the diversity in human values and cultural orientation; to understand and appreciate facts, concepts and perspectives within the fundamental areas of knowledge; and to foster intellectual curiosity and lifelong learning.
The specific objectives of the general education program are to develop in each student the following traits and abilities:

## Communicating

Read and listen with comprehension.
Write and speak effectively in standard English.

## Reasoning Ability

Identify and solve problems.

## Information Literacy

Locate, evaluate and use information effectively.

## Quantitative Analysis

Analyze, interpret and apply numerical, graphical, and statistical data and concepts.

## Scientific and Technological Awareness

Understand and apply the scientific method of inquiry.

## Technological Competency

Use computer information systems and other technology efficiently.

## Social Sciences Perspective

Apply basic principles of social and behavioral sciences influencing individuals and groups.

## Literary and Artistic Insight

Understand the nature of literary, philosophical and artistic expression and how particular works have contributed to the ideas and culture of the past and present.

## Valuing Diversity

Understand how diversity influences experiences, values, and thoughts of individuals and cultures.

## Global Awareness

Be aware of major institutions, persons, ideologies, and events that have shaped the nature and cultures of the world.

## Social Responsibility

Work effectively with others.
Recognize ones ethical, legal, and social responsibilities.

## General Education Core Curriculum

The General Education Core Curriculum at Moraine Valley is described in the Transfer Programs section of this catalog.

## Educational Guarantee

Moraine Valley Community College believes in the quality of its faculty and staff, and in the quality of instruction and technical skill competencies it provides to students.

As an expression of confidence in this belief, the college established guidelines to guarantee the transferability of course credit to colleges and universities, and to guarantee the technical skill competencies expected by employers.
If certain provisions are met, graduates of the college's university transfer programs are guaranteed the courses they successfully complete at Moraine Valley will transfer to their predetermined four-year college or university. Should the transfer institution decline to accept courses for credit, Moraine Valley will refund the tuition and course fees.

Additionally, Moraine Valley's career training program graduates are guaranteed technical skill competencies. If a graduate of an Associate in Applied Science degree or certificate program is not able to demonstrate entry-level skills expected by his or her employer, the graduate and employer may request up to 12 credit hours of retraining at Moraine Valley.
For more information, contact the Academic Advising Center, (708) 974-5721.

## Programs and Services to Support Student Learning

As a comprehensive community college, Moraine Valley is dedicated to helping adults achieve their academic goals. A variety of services and programs, both credit and noncredit, is available to students.

Academic Outreach-Designed to meet the needs of students whose lives do not fit into the traditional class schedule, Alternative Learning allows adults to earn a degree through nontraditional methods. Courses are convenient; many allow students to work at their own pace.
(708) 974-5710 morainevalley.edu/academicoutreach

Academic Skills Center—Free tutoring is available to currently enrolled students. The center has two computer labs: a classroom lab for student instruction and Web-assisted courses, and a walk-in lab for student use. Both have Internet access. The center also offers workshops on topics such as study skills and basic writing skills.
(708) 974-5340 morainevalley.edu/academicskills

Achieved Prior Learning (APL)—APL is a way for students to earn college credit for what they already know from prior learning or work experience. Faculty members assess the prior learning of enrolled Moraine Valley students through written examination, oral interview and/or performance test.
(708) 974-5710 morainevalley.edu/academicoutreach

Adult Basic Education (ABE)—The ABE Program teaches basic skills that adults need to prepare for GED instruction. It provides instruction in reading, writing and mathematics as applied to practical daily living. All classes are free.
(708) 974-5340 morainevalley.edu/abeged

Adult Learner Program - The Adult Learner Program is designed to support adult students, the "new traditional learner," who is at least 25 years old, working full- or part-time, and more than likely raising a family while attending college. The program includes a block of classes that can be applied to a degree or certificate while providing support for transition issues such as time management, study skills and goal setting. A day program and an evening program are available.
(708) 974-5722 morainevalley.edu/adultsuccess

Center for Advanced Studies-This center brings four-year and graduate courses and degrees to the Moraine Valley campus. The center hosts degree programs offered by public and private colleges and universities.
(708) 974-5768 morainevalley.edu/advancedstudies

College Level Examination Program (CLEP)—CLEP, the College Level Examination Program, is the most widely accepted credit-by-examination program in the country. More than 2,800 accredited institutions of higher education award credit for satisfactory scores on CLEP examinations. Each 90-minute examination allows you to demonstrate your knowledge in a wide range of subjects. You are recognized and rewarded for what you know, no matter how or where you learned it-in school, on the job, or through your own reading, observation and independent study. CLEP can help you get the college credits you need to reach your career and educational goals more quickly. (708) 974-5710 morainevalley.edu/academicoutreach

Cooperative Programs-Moraine Valley has cooperative agreements with several area community college districts. These agreements allow Moraine Valley district residents to enroll in occupational programs not currently offered by Moraine Valley. See page 148 for details.

Dual Credit-High school students enrolled in selected classes, offered and taught at the high school, may receive college credit from Moraine Valley. This option is available for approved high school Career and Technical (CTE), Advanced Placement (AP) and Honors courses. The typical high school student enrolled is either a junior or a senior. For more information, please contact the Alternative Learning Department, (708) 974-5710 or morainevalley.edu/alternativelearning

Education Center at Blue Island—The Moraine Valley Education Center at Blue Island, 12940 S. Western Ave., offers credit and noncredit classes during the day, evening and Saturdays.
(708) 974-5300 morainevalley.edu/blueis/and

English as a Second Language (ESL)—English as a Second Language courses are offered for students whose native language is not English. Students learn basic interpersonal communication skills to help them adjust to life in the United States. Listening, speaking, reading, and writing skills are taught in an integrated manner, and as these skills improve, students move from beginning to intermediate levels. Credits earned in the English as a Second Language Program are nonacademic and are not applied to certificates or degrees.
(708) 974-5340 morainevalley.edu/abeged

Extension Center Courses-Moraine Valley offers college credit courses at several local schools. These classes are scheduled for the working adult. Classes meet one or two nights each week for 15 weeks.

## (708) 974-5710 morainevalley.edu/alternativelearning

Fast-Track-Fast-Track courses and degree programs are designed to offer more flexible learning options and entry points for the adult student. Most courses are offered in a shorter time span, and full-time students can complete a degree in 18 months. For more information, contact the Academic Advising Center or visit morainevalley.edu/fasttrack.

General Educational Development (GED)—The GED Program offers students an alternative to earning a high school diploma. It prepares adults who have not completed a high school education to review the major subject areas (writing skills, reading, mathematics, and the U.S./Illinois Constitutions) of the GED examination. For information about free classes, call (708) 9745340. morainevalley.edu/abeged

Honors Program-The Honors Program is based on a universitytransfer curriculum in the areas of liberal arts and sciences. The class sizes are smaller than regular classes, and creative learning strategies are utilized. Courses vary by semester and involve deeper insights into the subject matter. Honors courses are indicated on the transcripts. Admission into the program is based on new students meeting two of the following criteria: high school GPA of 3.2, ACT score of 25 or SAT score of 1050, graduation in top 10 percent of class, and completion of one AP course with a grade of A or B or AP score of 4. Current students must meet the following criteria: 3.2 GPA and completion of nine credit hours or recommendation of your instructor. For further information, call (708) 974-5710 or visit morainevalley.edu/honorsprogram.

Illinois Virtual Campus-The college is a participant in the Illinois Virtual Campus, a program that assists students to locate, enroll, and study at baccalaureate and graduate institutions across the state via a variety of distance learning formats, including the World Wide Web. Moraine Valley advisors are available to review program materials and enrollment processes for the courses and programs that can be accessed using a home computer or a campus computer. Visit the Illinois Virtual Campus site at ivc.illinois.edu to review the catalog of offerings and participating institutions.

Intensive English Language Program—This special academic program is designed to serve students whose native language is not English and who are interested in improving their English skills in order to enroll in college. Potential students must possess basic academic English language processing skills that allow for sufficient classroom communication and an understanding of materials. A separate assessment is required for entry into the program. The Intensive English Language Program contains all of the course prerequisites for COM-101. (708) 974-5340 morainevalley.edu/abeged/ielp.htm
Literacy Volunteer Program-This program addresses the needs of adults who want to learn to read or improve in basic reading, writing and mathematics skills. Trained volunteer tutors provide individualized basic skills instruction for all enrolled students, Tutoring services are provided at local libraries, community centers and the college. Tutor training is available.
(708) 974-5331 morainevalley.edu/literacy

Moraine Area Career System (MACS)—The MACS consortium consists of the six high school districts within the Moraine Valley region and Moraine Valley Community College. The vision of MACS is to provide all students with the opportunity to develop a seamless career pathway and to acquire advanced academic, technical and workplace skills that link education and business.

Through collaborative efforts between the high schools, the college and the MACS, an emphasis is placed on career and technical preparation that will help equip students not only for careers but also for their future as lifelong learners. Programs coordinated through MACS include Elementary Career Awareness and various initiatives related to nontraditional careers, workplace skills, career development, and work-based learning. For further information, contact Suzanne Kendryna, assistant director of MACS, 4625 W. 107th St., Oak Lawn, IL 60453, (708) 422-6230, kendryna@macspartnership.com.

Online Learning_For information, call (708) 608-4355 or visit online.morainevalley.edu.

Internet Courses-Courses are taught using the Internet. Students access materials, participate in discussions, and interact with the instructor using an Internet-enabled computer. Students must have basic computer skills, learn independently, and use their Moraine Valley e-mail address.
Internet Hybrid Courses-Students come to campus for a significant portion of the class, but complete the majority of activities using the Internet. Students must plan to come to campus for class meetings. Students also must have basic computer skills, learn independently, and use their Moraine Valley e-mail address.

Internet Enhanced Courses-Students are expected to come to campus for all class meetings and use the Internet to supplement face-to-face class activities.

Proficiency Credit-Proficiency credit allows qualified students to convert vocational or noncredit courses or professional examination certificates to college credit. Proficiency credit is presently available in Automotive Technology, Criminal Justice, Fire Science Technology, Food Service Sanitation, Networking Technology, Office Systems and Applications, and Restaurant/Hotel Management. If you think you are eligible for proficiency credit, contact Alternative Learning to arrange an evaluation.

## (708) 974-5710 morainevalley.edu/academicoutreach

Public Assistance Coordination Program—The Public Assistance Coordination Program is designed to assist economically disadvantaged individuals identified by the Illinois Department of Human Services in meeting their needs academically, personally and socially. The program provides services to adults who are in need of adult basic education, English as a Second Language and pre-employment classes. Support services such as child care, transportation, and books may be available to eligible recipients. For more information, call (708) 597-2280.

Southwest Education Center-The center in Tinley Park offers day, evening and Saturday classes. (708) 974-5400 morainevalley.edu/swec

## International Student Affairs

The Office of International Student Affairs provides comprehensive support services for international students to enroll at the college, and to enable positive academic and cultural experiences during their stay. Trained professional staff provide personalized attention to the unique concerns and needs of international students.

International students are defined as any individual admitted into the U.S. on an F-1 student visa or students issued the SEVIS (Student and Exchange Visitor Information System) Form I-20 Certificate of Eligibility approved for study at Moraine Valley Community College.
International students are expected to comply with federal laws and regulations, U.S. Citizenship and Immigration Services requirements while enrolled at the college.
Application-To apply, the following must be submitted:

- Completed international student application form
- Official, certified copies of secondary and post-secondary school records, translated into English. The records must indicate completion of secondary education.
- Evidence of sufficient financial support, including the affidavit of support and original bank letter
- \$25 nonrefundable application fee
- Two passport-size photographs

Transfer students must also submit a copy of the Form I-20 issued by the transfer school, transfer eligibility form, official transcript or a letter stating the student's dates of attendance, and photocopy of passport and I-94 arrival/departure card.

English Testing-All international students are comprehensively tested in English Language reading, writing, speaking, and listening skills and competency, and placed in Intensive English Language Program classes or in regular academic classes according to test results. A TOEFL exam score is not required for admission to Moraine Valley.

International students who choose to take the TOEFL exam may qualify for an exemption to the English placement test and be allowed to register for regular academic classes. To qualify for an English placement test exemption, international students must submit an official TOEFL score report showing the minimum score of 550 (written test) or 213 (computer-based test), or 80 (Internet-based test) to the Office of International Student Affairs. Scores are valid for two years from student application date.

Additional tests for English placement or test exemptions (such as IELTS) may be accepted. For current policies, see morainevalley.edu/international.

Admission-International students are individually assessed for admission eligibility. Upon approval of the application and documents, the college may issue the SEVIS Form I-20 Certificate of Eligibility. Applicants apply for the F-1 student visa with the Form I-20 at the nearest United States embassy or consulate in the home country.

International students must enroll full-time in at least 12 credit hours per semester. Summer enrollment is optional.

For more information about international student enrollment, contact the Office of International Student Affairs by telephone at (708) 974-5443, fax (708) 974-0561, or online at morainevalley.edu/international

Summer Admission-International students who attend other colleges may enroll as summer guest students at Moraine Valley. A copy of the Form l-20 from the current school must be submitted and verification of student status before registration is permitted.

Foreign Residents-Foreign nationals temporarily residing in the U.S. may be required to apply and be approved for a change of visa status to enroll in the college as a regular full-time student. Other foreign nationals who wish to enroll at the college may be required to provide passport and visa information before registration. Foreign residents are required to pay international tuition rates for credit classes.
Foreign Transfer of Credit-International students who have studied at a university-level institution in their home country may wish to apply for course credits to be transferred to Moraine Valley. In order to obtain foreign education transfer credit, international and foreign resident students must pay for and apply for a credit evaluation service performed by a private credit evaluation agency. For more specific information on credential evaluation agencies and transfer of foreign education credits to Moraine Valley, please contact the Office of International Student Affairs Office or visit morainevalley.edu/international.

Intensive English Language Program (IELP)—This special academic program is designed to serve students whose native language is not English and who are interested in improving their English skills in order to enroll in regular academic courses at the college. Potential students must possess basic academic English language processing skills that allow for sufficient classroom communication and an understanding of materials. Three levels of English instruction are offered, including beginning, intermediate, and advanced courses in grammar, reading, speech, and writing. Students in advanced levels of IELP or who successfully complete IELP advanced levels may enroll directly in degree programs.

International Student Orientation Program—All new international students at Moraine Valley are required to attend the International Student Orientation Program. This program is scheduled the week before classes begin and helps international students become familiar with the campus, college procedures and the local community. Orientation includes English assessment, academic advising, class selection, registration, and scheduling. Orientation also provides practical information about housing, shopping, transportation, banking, social customs, and other topics helpful to daily living in the United States.

Academic Support-International students receive individual attention from professional staff to review progress in their classes. Also, the Academic Skills Center provides free tutoring in reading, English, mathematics, chemistry, physics, biology, accounting, and bookkeeping. Tutoring is free to all students.

Advising and Counseling-Full-time counseling and advising services are offered for international students. Students are provided assistance with visa immigration issues, educational planning, course selection, academic progress, university transfer, housing, cross-cultural adjustment, and personal concerns.
Housing/Host Home Program—Airport arrival assistance and housing assistance services are provided to all new international students. Currently, the housing options available include living with a host family through the Host Home Program or renting an apartment in the community. The Host Home Program offers students the opportunity to live with a local family and enjoy the convenience of a home while practicing English with their hosts. The international student housing specialist will assist international students with housing prior to arrival and while enrolled. Students may request housing assistance when applying for admission.

Immigration Compliance—International students admitted to the U.S. on an F-1 student visa, or approved for legal student status, are responsible to understand and comply with federal immigration regulations for students, and the Student and Exchange Visitor Information System (SEVIS) procedures. Regulations include maintaining full-time enrollment during the regular academic year; maintaining a valid passport and valid Form I-20; not engaging in unauthorized employment; and following procedures for transfer, employment, practical training, and other events and benefits. The college's Designated School Officials, responsible for institutional compliance with SEVIS and U.S. Citizenship and Immigration Services regulations, report on and monitor compliance with these regulations, and provide advice and assistance to students.
Medical Insurance Requirement-International students are required to purchase medical insurance while enrolled at Moraine Valley. A group insurance plan is available upon enrollment that provides emergency medical and hospitalization coverage. Students who prove that they have purchased their own equivalent insurance may request a waiver from the group insurance plan and the associated fee. The group medical insurance does not cover the cost of care and treatment of pre-existing physical or mental conditions, dental services, preventive health
care, and has other limitations. Therefore, international students should be in good health when traveling to the United States for study. A copy of the medical insurance policy is available in the Office of International Student Affairs.

International students with pre-existing medical conditions that may prevent them from obtaining adequate medical care under the group insurance policy may be required to provide proof of their own medical insurance prior to enrollment. Failure to provide such proof if requested by college officials may warrant a denial of admission.

Social Activities-The International Student Affairs Office sponsors social activities and events for international students. These activities create opportunities for international students to make new friends, visit cultural institutions, learn about the United States and share their culture with local students. International students also may participate in the International Club and other student clubs and events on campus, such as theater productions, student government and sports. The International Student Ambassadors Program offers leadership opportunities to better prepare students for university transfer and career preparation. The International Conversation Partners Program pairs international and U.S. students for conversation and English practice. The office also offers trips, events and cultural activities for students to socialize, build new friendships, and increase international understanding and awareness.

Standards of Academic Progress-International students must make normal progress toward completing a course of study as required by U.S. Citizen and Immigration Services regulations. The college has established Standards of Academic Progress for students to comply with this requirement and to provide assistance to students who experience academic difficulty.
Tuition—Tuition for international students is currently $\$ 284$ (Fall 2011 - \$288) plus $\$ 5$ (Fall 2011 plus \$9) in fees per credit hour and is subject to change. All tuition and fees for international students must be paid in full (cash, bank wire transfer, certified check, credit card, or personal check drawn on a local bank) by the end of the first week of classes. The college's tuition payment plans may be available. International students are not eligible for federal financial assistance. For current information, see morainevalley.edu/international

## Grading

## Grade Definitions

The following letter grades are used on semester grade reports and transcripts:
A-Student demonstrates achievement of learning objectives at a level of outstanding mastery.
B-Student demonstrates achievement of learning objectives at a level beyond mere minimum competency.
C-Student demonstrates achievement of learning objectives at a level of minimum competency.
D-Student demonstrates achievement of learning objectives at a level below minimum competency but sufficient to receive credit.
F-Student demonstrates insufficient achievement of learning objectives to receive credit.
U—audit*
I-incomplete**
W—official withdrawal***
P—pass****
R-repeating a class $\dagger$
*Audit—Students may elect to audit a course (no credit, no grade points, not figured in grade point average). Audit status indicates that the student will attend the classes but will not receive credit. A student must declare audit status before the end of the refund period. Pending approval, an additional fee will be charged to offset the loss in state reimbursement.
**Incomplete-Upon prior arrangement and agreement with the course instructor and upon submission of the college's "incomplete grade contract" with the final grade sheet, an incomplete (I) grade will be recorded on the student's record. An "I" grade will be issued at the discretion of the instructor when course requirements are not fulfilled by the end of the term only when it is fully justified by serious circumstances, and when the instructor believes that the reason the student cannot complete the course in a timely fashion is sufficiently serious to warrant the issuance of the "I" grade.
The incomplete grade contract is an agreement between the student and the instructor, and states specifically what the student must do to complete the course work. The course work must be completed by the end of the semester following the term in which the course was taken (not including summer semester) and must be in agreement with the terms of the incomplete grade contract. Upon completion of the course work, the instructor will change the " $I$ " grade to the appropriate letter grade (A, B, C, D, or F) by obtaining a Change of Grade Form from the subdivision office. If the student does not complete the course work within this prescribed semester restriction, a grade of " $F$ " will be entered for the course.

## Guidelines for the Issuance of an Incomplete Grade

- Students may request an "I" grade only when unusual and serious circumstances arise during the final weeks of the semester that in some way prohibit the completion of course require-
ments for a course that the student has been successfully pursuing. These circumstances may involve a severe personal or family crisis, grave personal illness, or extraordinary job responsibilities. The instructor may, and should, request written documentation.
- Students may not request an "I" grade if they have failed to attend the course on a regular basis and/or have failed to pursue the course work during the semester in a timely fashion.
- Students, who have been consistently failing throughout the semester, may not request an "I" grade in order to avoid a low or failing grade on the student's transcript.
- Students will not be issued an "I" grade by the course instructor for the sole purpose of allowing a student to repeat the course.
***Official Withdrawal—After the prescribed period of tuition refund and before the end of the 13th week of a 17-week course, a student may withdraw from a course.

Students may officially withdraw online at morainevalley.edu. Once a student has withdrawn from a course, he/she will no longer be allowed to attend class. All withdrawals are final. Once a student has withdrawn, a grade of "W" will appear on the official transcript. This grade does not affect the student's GPA. A student who does not officially withdraw will receive a grade of "F", depending on course progress or course attendance. This grade will become a part of the student's permanent record. The student remains responsible for all tuition and fees related to the course.
****Pass—For specified courses (i.e., APL), credit is recorded only by a "P" (pass) or "F" (fail). The "P" grade signifies that the student completed the requirements of the course with a grade of " C " or better. Credit from courses in which a " P " is granted counts toward the completion of the student's program of study but is not figured in the grade point average.
†Repeating a Class—Students may repeat a course twice. In accordance with this policy, a student may be denied enrollment in a class based on lack of academic progress and/or proof of an ability to benefit from the course. Some courses are approved to be taken more than two times (e.g., designated music and physical education courses). The repeat policy will go into effect when the allowable number of repeats for these courses has been exceeded. Those seeking an exception to the college policy must contact the dean of Enrollment Services. The most recent grade (the repeated grade) received will be computed into the cumulative grade point average. The repeated grade will be designated by an "R." All previous attempts will remain on the transcript, but will not be included in the cumulative grade point average.

Variable Credit-Some courses are offered for varying amounts of credit (i.e., one credit hour, two credit hours, three credit hours, etc.). Students who enroll in courses offered with variable credit must indicate at the time of registration the amount of credit for which they are enrolling. The initial registration commitment can be changed during the designated late registration period but cannot be changed after that time.

## Grade Point Values and College Credit

Each letter grade is assigned a specific grade point value per credit hour; however, only certain letter grades are used in the calculation of the student grade point average (GPA), and only certain letter grades will earn college credit. The student should consult the table below:

| Letter | Grade Points <br> Value Per <br> Credit Hour | Used in <br> GPA <br> Calculation | College <br> Credit <br> Earned |
| :---: | :---: | :---: | :---: |
| A | 4.0 | Yes | Yes |
| B | 3.0 | Yes | Yes |
| C | 2.0 | Yes | Yes |
| D | 1.0 | Yes | Yes |
| F | 0 | Yes | No |
| U | 0 | No | No |
| I | 0 | No | No |
| W | 0 | No | No |
| P | 0 | No | Yes |

## Calculation of Grade Point Average

The college uses the grade point average (GPA) as a measure of academic quality and academic progress. However, the student must be aware of the following distinctions used by the college in the reporting and calculation of the GPA.

For the purposes of the semester grade report, official transcript, honors at graduation, and the President's and Dean's Lists, the GPA calculation will not include developmental and remedial courses. Exception: for the purposes of Illinois Veteran Grants, financial aid, and Standards of Academic Progress, the GPA calculation will include developmental and remedial courses. Developmental and remedial courses include, but are not limited to, CHM-099; COM-060, COM-070, COM-080, COM085, COM-090; COS-100; IEL-062, IEL-064, IEL-066, IEL072, IEL-074, IEL-076, IEL-082, IEL-084, IEL-086, IEL-092, IEL-094, IEL-096; MTH-060, MTH-070, MTH-080, MTH-090, MTH-095, MTH-097, MTH-098; and RDG-040, RDG-041, RDG070, RDG-071, RDG-090, RDG-091.

## Example Calculation (Semester Grade Report)

| Course | Letter <br> Grade | Grade <br> Point Value | Credit <br> Hours | Grade <br> Points |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| COM-101 | B | 3 | $\times$ | 3 | $=$ | 9 |
| PSY-101 | D | 1 | x | 3 | $=$ | 3 |
| MTH-095* | C | 0 | x | 0 | $=$ | 0 |
| BIO-111 | A | 4 | x | 4 | $=$ | 16 |
| IMS-101 | F | 0 | x | 3 | $=$ | 0 |
| Totals* |  |  |  | 13 |  | 28 |

* Since developmental and remedial courses are not included in the GPA calculation, the "grade point value" and "credit hours" are zero. Thus, dividing 28 grade points by 13 credit hours gives a GPA of 2.154.

A student's cumulative GPA is calculated by using total grade points divided by total credit hours attempted.

## Attendance Policy

The college values regular class attendance as an essential component contributing to the learning process and therefore expects students to attend all class meetings of each course for which they are registered.

The attendance policy of each instructor is included in the course syllabus distributed by the instructor on the first day of class. Compliance with each instructor's attendance policy is the student's responsibility. An instructor's attendance policy may go into effect with the first class meeting of the course. Late registration does not exempt the student from adhering to the attendance requirements in the course syllabus.

Make-up work or work submitted late due to absence (including an instructor's decision to award less than full credit for work submitted late) will be handled at the discretion of the instructor in accordance with the course syllabus.

Students not regularly attending class are strongly advised to withdraw officially from the course. Students who do not withdraw officially will receive a grade of " $F$ " for the course, which will become a part of the student's permanent record.

Students who must be absent due to prolonged illness or extended emergency should notify their instructor(s) immediately to determine a plan of action appropriate to the situation.

## Cheating or Plagiarism Policy

Each student is expected to be honest in his or her class work. The college regards cheating or plagiarism in the classroom and laboratories, and on assignments or examinations, as a serious offense. Instructors at the college will clearly state their cheating or plagiarism policies and penalties in their course syllabi. The penalty may include a grade of " $F$ " being entered for the student for the course. All incidents of cheating or plagiarism must be reported to the appropriate subdivision office using the official Academic Dishonesty Form. (See Code of Academic Integrity on page 41.)

## Multiple Violations of the Code of Academic Integrity

Any violation of the Code of Academic Integrity is a serious offense. (See Code of Academic Integrity on page 41.) Multiple violations of the Code of Academic integrity represent a breach in the trust given to members of our academic community and risk dismissal from the college. Students who wish to appeal decisions made by faculty members concerning grades given due to violations of Academic Integrity may refer to "Student Complaint and Hearing Process" on page 42. Students who have multiple violations will be subject to the following:

| Status | Violations | Result Action <br> Warning |
| :--- | :--- | :--- |
| Caution | 2 Violation | Penalty as defined in the course <br> syllabus. |
| Suspension | 3 Violations | In order to register for class, student <br> will be referred to a counselor to <br> determine if any remediation is <br> needed. |
| The student will be suspended for |  |  |
| be referred to a counselor for further |  |  |
| remediation/assistance to prevent |  |  |
| future violations. |  |  |

## Additional Grade Information

Students must be registered for a course prior to the end of late registration to receive a final grade. After the midterm date of each class, no additions will be made to the class roster.

Information about appealing a final grade in a course may be obtained in the office of the subdivision dean.

All grade reports will be processed after the last official day of the term. Final grade reports will be posted on MVConnect student portal.

A student must refute any grade report or educational record by the end of the semester following the semester in which the course was taken (not including summer term). If a student does not exercise this right within this time frame, the college has a right to refuse to review the student's claim.

## Early Warning Support System

The Early Warning Support System assists students who are encountering academic difficulties. Its goal is to help students be successful in their course work. Early in each semester, teaching faculty identify students who are experiencing poor progress and/or attendance problems. The identified students receive a letter from the dean of Counseling and Advising encouraging students to seek discussions with the referring instructor or a member of the counseling staff regarding the situation. Many times strategies for improvement can be agreed upon with very positive outcomes.

## Standards of Academic Progress

To promote academic progress, the following standards are applied to all students who have attempted at least 12 credit hours. GPAs and credit hours referred to in the next column include grades earned in college credit classes, plus developmental and remedial courses, and may differ from the semester grade report and transcript GPA. For Standards of Academic Progress, this will be referred to as the "SOAP GPA." Standards of progress for financial aid may be different. See page 19 for standards of progress for recipients of financial aid.

| Status | Standard | Result |
| :---: | :---: | :---: |
| Academic Caution | Attempted 12 or more credit hours and cumulative SOAP GPA of less than 2.0 | Must develop success strategies with assigned counselor prior to their next registration. |
|  | While on caution, if semester SOAP GPA is 2.0 or above, and cumulative SOAP GPA is less than 2.0, student remains on caution. |  |
|  | If cumulative SOAP GPA is 2.0 or above, student is in good standing. |  |
| Academic Probation | While on caution, cumulative and semester SOAP GPA are less than 2.0. Student placed on academic probation | Review and refine success strategies with assigned counselor prior to their next registration. |
|  | If semester SOAP GPA is 2.0 or above and cumulative SOAP GPA is less than 2.0, student remains on probation. |  |
|  | If cumulative SOAP GPA is 2.0 or above, student is in good standing. |  |
| Academic Suspension | While on probation, cumulative and semester SOAP GPA are less than 2.0 | One semester suspension. Required success strategies upon return. <br> Appeal process available for students with SOAP GPA of 1.50 or higher. |
|  | If semester SOAP GPA is 2.0 or above and cumulative SOAP GPA is less than 2.0, student remains on probation. |  |
|  | If cumulative SOAP GPA is 2.0 or above, student is in good standing. |  |
| Academic Dismissal | First semester after returning from suspension, cumulative and semester SOAP GPA are less than 2.0 | Dismissal for two semesters and one summer (one academic year). Must petition for reinstatement. <br> If granted, student returns on probation status. |
|  | If semester SOAP GPA is 2.0 or above and the cumulative SOAP GPA is less than 2.0, student remains on probation. |  |
|  | If cumulative SOAP GPA is 2.0 or above, student is in good standing. |  |

## Example GPA Calculation (Standards of Academic Progress)

| Course | Letter <br> Grade | Grade <br> Point Value | Credit <br> Hours | Grade <br> Points |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| COM-101 | B | 3 | $\times$ | 3 | $=$ | 9 |
| PSY-101 | D | 1 | $\times$ | 3 | $=$ | 3 |
| MTH-095* | C | 2 | $\times$ | 4 | $=$ | 8 |
| BIO-111 | A | 4 | x | 4 | $=$ | 16 |
| IMS-101 | F | 0 | x | 3 | $=$ | 0 |
| Totals* |  |  |  | 17 |  | 36 |

* Since developmental and remedial courses are included in the GPA calculation for Standards of Academic Progress, dividing 36 grade points by 17 credit hours gives a GPA of 2.118.

These standards (1) clearly define academic progress at the college; (2) offer the student assistance in setting realistic goals; and (3) outline the role and responsibility of students and college personnel in promoting academic success.
Good Standing-Students with a cumulative SOAP GPA of 2.0 or higher and students who have attempted fewer than 12 credit hours are in good standing.

Academic Caution-Students who have attempted 12 or more credit hours and have earned less than a 2.0 cumulative SOAP GPA will be placed on caution and be required to participate in identifying success strategies with a counselor prior to their next registration. This may include enrollment in COL-101. Students who earn a 2.0 or above semester SOAP GPA while on caution will continue on caution. Students who earn a 2.0 or above cumulative SOAP GPA will be in good standing.
Academic Probation-Students enrolled on academic caution who earn a cumulative and semester SOAP GPA of less than 2.0 are placed on academic probation. These students will continue to participate in success strategies developed with a counselor prior to their next registration. Students on probation who earn a 2.0 or above semester SOAP GPA will continue on probation. Students who earn a 2.0 or above cumulative SOAP GPA will be in good standing.
Academic Suspension-Students enrolled on academic probation who earn a cumulative and semester SOAP GPA of less than 2.0 are placed on academic suspension. These students will be suspended from the college for one semester. Suspended students with a cumulative SOAP GPA of 1.50 or higher may see their counselor regarding the suspension appeals process. Upon returning, students must participate in developing success strategies with a counselor prior to re-enrolling. Students who earn a 2.0 or above semester SOAP GPA will continue on probation. Students who earn a 2.0 or above cumulative SOAP GPA will be in good standing.

Academic Dismissal-Students who return to the college after a suspension and earn a cumulative and semester SOAP GPA of less than 2.0 will be dismissed for one academic year (summer/fall/spring or spring/fall/summer). After this dismissal
period, these students must petition for reinstatement. If reinstated, students will be placed on academic probation. Upon returning, students who earn a 2.0 or above semester SOAP GPA will continue on probation. Students who earn a 2.0 or above cumulative SOAP GPA will be in good standing.

## Forgiveness Policy

The Moraine Valley Forgiveness Policy is designed for those students who have demonstrated success in credit courses at Moraine Valley and who now wish to build a solid academic record that is not undermined by past failures. Candidates for the Forgiveness Policy would include those students who have succeeded in a new major or program after experiencing failure in courses of study that were inappropriate for their talents or ability level. Other candidates for this policy would be students returning to college after military service, extended work experience, or recuperation from serious illness or personal problems who are now committed to a new beginning in their academic career and can demonstrate their ability to succeed in credit courses.

This policy represents a formal process that allows students to have their cumulative grade point average recalculated without the inclusion of certain previously earned "F" grades. This policy does not raise individual course grades.
Eligibility—A student can petition for forgiveness any time after the following requirements of the policy are met:

- A student must earn, in subsequent terms, a consecutive number of credit hours with no grades of "P," "F," "D," or "I," and no more than two "W's," equal to the number of credit hours of "F" grades to be forgiven but no less than 15 credit hours. "Consecutive hours" means credit hours earned in sequence and does not refer to consecutive semesters.
- For example, a student who wants 15 credit hours or less of " $F$ " grades forgiven must earn 15 consecutive hours with no grades of "P," "F," "D," or "I," and no more than two "W's" in subsequent terms (fall/spring/summer). A student who wants to have more than 15 hours of "F" grades (i.e., 18 hours) forgiven must, in subsequent terms, earn a consecutive number of hours with no grades of "P," "F," "D," or "I" equal to the number of hours of " $F$ " to be forgiven (i.e., 18 hours).

Procedures-A student must complete the official Moraine Valley Application for "F" Grade Forgiveness form and submit it to the Registration Office after the eligibility requirements are fulfilled.

- Grades earned in developmental and remedial courses which include, but are not limited to, CHM-099; COM-060, COM070, COM-080, COM-085, COM-090, COS-100, IEL-062, IEL-064, IEL-066, IEL-072, IEL-074, IEL-076, IEL-082, IEL-084, IEL-086, IEL-092, IEL-094, IEL-096, MTH-060, MTH-070, MTH-080, MTH-090, MTH-095, MTH-097, MTH098, RDG-040, RDG-041, RDG-070, RDG-071, RDG-090, RDG-091 cannot be applied toward the eligibility requirements.
- Grades earned at other colleges cannot be applied toward the eligibility requirements.
- Moraine Valley "U" (audit) grades will not be counted when calculating consecutive hours earned.
- Forgiveness of "F" grades will only be granted once for each student.
- When the eligibility requirements have been fulfilled and forgiveness granted, the student's cumulative grade point average will be recalculated with "F" grades removed from the calculation. The " F " grades will remain on the official transcript with a notation indicating the student has been granted " F " forgiveness.

Any considerations above and beyond these statements should be directed in writing to the vice president of Academic Affairs.

## President's List and Dean's List

To be eligible for the President's List and Dean's List for a given semester, students must earn credit in at least nine credit hours of college credit courses which count toward a certificate or a degree.

Students who meet the eligibility requirements and earn at least a 3.5 grade point average (excluding developmental and remedial courses) will be named to the Dean's List. Students who meet the eligibility requirements and earn at least a 3.75 grade point average (excluding developmental and remedial courses) will be named to the President's List. "D," "F" or "I" grades will exclude a student from qualifying for the President's or Dean's List.
Developmental and remedial courses include, but are not limited to, COM-060, COM-070, COM-080, COM-085, COM-090; COS100; IEL-062, IEL-064, IEL-066, IEL-072, IEL-074, IEL-076, IEL-082, IEL-084, IEL-086, IEL-092, IEL-094, IEL-096, MTH060, MTH-070, MTH-080, MTH-090, MTH-095, MTH-097, MTH-098, and RDG-040, RDG-041, RDG-070, RDG-071, RDG-090, RDG-091.

See example calculation of grade point average for semester grade report on page 28.

## Part-Time Student Scholastic Achievement List

Moraine Valley Community College acknowledges the challenges of students who balance work, family and school responsibilities and recognizes the academic excellence of part-time students through the Part-Time Student Scholastic Achievement List. To be recognized for scholastic achievement, students must meet the following criteria:

- Earn at least a 3.5 cumulative grade point average with at least 24 credit hours (excluding developmental courses).
- Earn at least a 3.5 grade point average for the semester that the distinction is received.
- Attempt less than 12 credit hours of college credit courses which count toward a degree or certificate during the semester that the distinction is received.
- Attempt at least 3 to 8 credit hours for the semester that the distinction is received (excluding developmental courses).

Note: Grades of "D," "F," or "I" will exclude a student from qualifying for the Scholastic Achievement List.

## Transcripts

Upon written request from the student, the Registration Office will mail the student's official transcript to any college, university or agency named. Transcript request forms are available at the Registration Office. There is a fee per transcript. Letter grades earned in developmental and remedial courses will appear on the transcript, but the grades earned in these courses will not be calculated in the GPA which appears on the transcript.

## Academic Load

Full-Time-students who enroll in 12 or more credit hours during fall or spring semesters, or six or more credit hours during the summer session. The recommended maximum academic load during fall or spring semesters is 18 credit hours; the recommended maximum academic load during summer session is 9 credit hours. Students wishing to register for more than the maximum academic load must meet with an academic advisor or counselor to discuss success strategies, review previous course completion rates, earned grade point average, and work schedules prior to registration for any additional hours.
Three-Quarter-Time—students who enroll in nine to 11.9 credit hours during fall and spring semesters

Half-Time—students who enroll in six to 8.9 credit hours during fall or spring semesters, or three to 5.9 credit hours during the summer session

Part-Time-students who enroll in less than six credit hours during fall and spring, and less than three credit hours during the summer session

Course Load for Working Students—Students who work while attending classes should carefully consider the number of hours they work prior to enrolling. The following guidelines are recommended:

Work load per week: 0 to 15 hours
Suggested course load Fall/Spring: 12 to 16 credits Summer: 3 to 7 credits

Work load per week: 16 to 25 hours
Suggested course load
Fall/Spring: 8 to 11 credits
Summer: 3 to 4 credits
Work load per week: 26 to 40 hours
Suggested course load
Fall/Spring: 3 to 7 credits
Summer: 3 credits

## Student Classification

First-Year Student-one who has earned less than 30 credit hours

Second-Year Student-one who has earned 30 or more credit hours but has not earned a degree

## Graduation

Moraine Valley grants associate's degrees and various occupational certificates. Associate in Arts, Associate in Science, Associate in Fine Arts, and Associate in Arts in Teaching degrees are designed for Transfer Program students. The Associate in Applied Science degree and occupational certificates are designed for Career Program students.

Graduation Requirements for All Associate Degrees-The following requirements must be met by students pursuing an associate degree.

- An official high school transcript with date of graduation, a GED certificate or equivalent documents on or before petition for graduation.
- A minimum cumulative grade point average of 2.0 , which does not include developmental and remedial courses.
- A "C" grade or better in COM-101 and a "C" grade or better in COM-102 when course is required for specific program or degree.
- A minimum of 62 credit hours, including courses that meet the general education and any specific program requirements for the degree.
- Developmental and remedial courses cannot be applied toward an associate's degree unless specified in the program description but can be applied to full or part-time student status. Developmental and remedial courses include, but are not limited to, CHM-099; COM-060, COM-070, COM-080, COM085, COM-090; COS-100; MTH-060, MTH-070, MTH-080, MTH-090, MTH-095, MTH-097, MTH-098; and RDG-040, RDG-041, RDG-070, RDG-071, RDG-090, RDG-091.
- A student must earn at least 15 credit hours at Moraine Valley.
- A completed graduation petition must be submitted to the Records Office by the stipulated deadline.
- All degrees and certificates will be conferred and transcripted with the date (December/May/August) all requirements for that degree/certificate were met.
- On Sept. 18, 1991, Governor Jim Edgar signed into law Public Act 87-581, which states, "Programs shall at least: (1) require each public institution of higher education to include, in the general education requirements for obtaining a degree, course work on improving human relations to include race, ethnicity, gender, and other issues related to improving human relations to address racism and sexual harassment on their campuses, through existing courses." Students at Moraine Valley Community College satisfy the requirements of this law through COM-103, which is a required course in each of the degree programs (A.A., A.S., A.A.S., A.F.A., and A.A.T.).
- Students must meet the degree or certificate requirements in effect at the time they first enrolled and earned credit (earned credit is defined as receiving a " $D$ " or above in college-level or developmental courses) or the requirements in effect during any subsequent year until the degree or certificate is completed. However, if enrollment has been interrupted by six or more consecutive semesters (including summer semesters), the student must meet the degree or certificate requirements in effect at the time of re-enrollment with earned credit (earned credit is defined as receiving a " D " or above in college level or developmental courses) or the requirements in effect after re-enrollment until the degree or certificate is completed. Exceptions are the selective admission programs. Students who are readmitted to these programs must follow the requirements in effect at the time of their readmission to the program. In all cases, students must meet all degree or certificate requirements for the selected year. Requirements from more than one year cannot be combined.


## Additional Requirements

Associate in Arts (A.A.), Associate in Science (A.S.) and Associate in Fine Arts (A.F.A.), and Associate in Arts in Teaching (A.A.T.)

See Transfer Programs section of this catalog for detailed information.

## Associate in Applied Science (A.A.S.)

In addition to the graduation requirements for all associate degrees listed above, a minimum level of competency in mathematics is required for graduation for all A.A.S. degrees. This minimum competency may be demonstrated in one of two ways:

1. Placement into MTH-098 or higher; or
2. Successful completion of BUS-120, or MTH-095 or higher, or equivalent course at another college, with a grade of "C" or higher.

## Occupational Certificates

The college offers several programs of occupational specialization. Completion of one of these programs is recognized with a certificate.

The requirements are the following:

- successful completion of the specified courses for the certificate;
- minimum overall grade point average of 2.0 in the courses required for the certificate;
- at least 50 percent of the certificate hours must be completed at Moraine Valley.

Developmental and remedial courses cannot be applied toward a certificate unless specified in the program description. Developmental and remedial courses include, but are not limited to, the following: CHM-099; COM-060, COM-070, COM-080, COM-085, COM-090; COS-100; MTH-060, MTH-070, MTH080, MTH-090, MTH-095, MTH-097, MTH-098; and RDG040, RDG-041, RDG-070, RDG-071, RDG-090, RDG-091.

- submission of a graduation petition to the Records Office by the stipulated deadline.
Graduation Petition Deadlines and Fees-Candidates for completion of a certificate or degree must file a graduation petition in the Records Office.

Deadlines for filing petitions are the following:
Fall graduation (December)—Sept. 15
Spring graduation (May)—Feb. 1
Summer graduation (August)—June 1
The nonrefundable graduation petition fee is $\$ 15$. An additional charge is made when multiple certificate or degree combinations are completed at once. Candidates who complete certificates must file a graduation petition in the Records Office.
Six weeks is required for final certification and mailing of diplomas.

## Second Associate's Degree

Moraine Valley will grant more than one associate's degree to the same student provided all specified requirements are met for that particular degree.

Students may earn an Associate in Arts or Associate in Science degree, but not both.

Students may earn more than one Associate in Applied Science degree.

Students with an Associate in Applied Science degree who wish to complete the requirements for either an Associate in Arts, Associate in Science, or Associate in Fine Arts degree are advised to review the section of the catalog that outlines Transfer Program requirements. Students should meet with a counselor or advisor because not all courses required in the respective Associate in Applied Science programs are intended for or accepted as transfer credit to senior institutions.

Students who have received an associate's degree from another college may earn an associate's degree from Moraine Valley by completing the program requirements for the degree and fulfilling the general graduation requirements.
Students who seek a second degree from Moraine Valley are subject to published fee charges and petition deadlines.

## Graduation Ceremony

The graduation ceremony is held once a year at the end of spring semester for graduates from the previous summer and fall semesters and for current spring graduates.

## Honors

Students who complete a degree program reflecting scholarly achievement are honored at graduation. The cumulative grade point average will be used to determine graduation honors. This grade point average includes courses that count toward a certificate or degree and does not include developmental and remedial courses. Degree graduates with a cumulative grade point average between 3.9 and 4.0 are recognized as graduating summa cum laude. Degree graduates with a cumulative GPA between 3.75 and 3.89 are recognized as graduating magna cum laude. Degree graduates with a cumulative GPA between 3.5 and 3.74 are recognized as graduating cum laude.

Certificate graduates are also recognized at graduation for their achievements. Certificate graduates with a cumulative GPA between 3.75 and 4.0 are recognized as graduating with high honors. Certificate graduates with a cumulative GPA between 3.5 and 3.74 are recognized as graduating with honors.

At the commencement ceremony, honor graduates wear cords to designate specific academic honors. The different colored cords represent the following honors:

## Associate's Degrees

Summa Cum Laude—gold cord
Magna Cum Laude-silver cord
Cum Laude-white cord

## Certificates

With High Honors-silver and green cord
With Honors-white and green cord
Members of the college's honor society, Phi Theta Kappa, wear stoles at the commencement ceremony to designate their honor society. These stoles are available prior to graduation by contacting the honor society advisor at (708) 974-5353.

## Student Services

## Academic Advising Center

Academic advisors assist students in developing educational plans consistent with their college and career goals. The Academic Advising Center, located in the Student Services Center, second floor, Room S201, is open Monday through Thursday 9 a.m. to 7:30 p.m., and Friday 9 a.m. to 5 p.m., and limited Saturday services every first and third Saturday from 9 a.m. to 1 p.m. (708) 974-5721 morainevalley.edu/academicadvising Services include the following:

Advising-Utilizing a variety of resources, academic advisors help students clarify their educational goals and assist them with planning courses for graduation from Moraine Valley and/or transfer to a four-year college or university. Academic advisors help students identify Moraine Valley programs and services, understand Moraine Valley policies and procedures, and uses of occupational and educational information.

Information-A self-service center provides printed and online resources for students, including information on Moraine Valley programs, establishing an online education plan, DARES/RED Latem Degree Audit Record System, transfer guides for selected four-year colleges in Illinois, and catalogs and online links to colleges across the United States.

## Academic Skills Center-Tutoring and Computer Lab

The Dr. Irene Brodie Academic Skills Center offers free tutoring to currently enrolled Moraine Valley students. The center also has two computer labs: a classroom lab for student instruction and Web-assisted courses, and a walk-in lab for student use. Both have Internet access. In addition, the center offers noncredit workshops on topics such as study skills and basic writing skills. Tutoring-Room L200. Computer Lab-Room B284.
(708) 974-5340 morainevalley.edu/academicskills

## Bookstore

The Bookstore, located in D144, offers new and used textbooks, supplies, insignia clothing, nursing supplies, academically priced software, cards, and gift items. Regular store hours are MondayThursday 8 a.m. to 8 p.m., and Friday 8 a.m. to 5 p.m. Call (708) 974-5716 for information on extended hours of operation. All major credit cards are accepted. Textbooks also can be prepaid online at morainevalley.edu/bookstore. You can pick up at the bookstore or have it shipped to you.

## Carl Perkins Services

Students enrolled in career programs at Moraine Valley are provided educational support services through the Carl D. Perkins Vocational and Technical Education Act.

Under this act, opportunities are provided for students to overcome barriers to success and enhance learning skills in preparation for their college education and future careers. Eligible students may be entitled to:

## - Tutoring services

- Career and academic guidance
- Work-related internships
- Services for special populations
- Training for nontraditional careers


## Computer Labs

Moraine Valley has several computer labs and open areas where students can use computers, printers and more.
morainevalley.edu/resources/computer.htm

## Counseling and Career Development Center

Counselors provide a variety of programs and services to enhance the learning and personal development of students. The center, located in the Student Services Center, Room S202, is open Monday through Thursday 9 a.m. to 7:30 p.m., and Friday 9 a.m. to 5 p.m., and limited Saturday hours from 9 a.m. to 1 p.m. (708) 974-5722 morainevalley.edu/counseling

Through individual appointments, seminars, workshops, and credit courses, counselors provide:

## Career Counseling

- gain an understanding of interests, work values, work personality, and skills
- identify potential career options
- learn how to plan effectively
- use career information to explore careers and the world of work
- decide a career direction
- select a college major


## Academic Counseling

- learn skills for success in college
- explore educational goals
- develop skills for enhancing time management, reducing school anxiety, and building motivation and confidence in school


## Personal Development Counseling

- learn to manage personal issues
- develop skills for problem solving
- learn to communicate and build relationships effectively


## Fine and Performing Arts Center

The Fine and Performing Arts Center features the visual and performing arts. Each season more than 100 events and exhibits are presented in the Dorothy Menker Theater, the John and Angeline Oremus Theater and the Robert F. DeCaprio Art Gallery. The Fine and Performing Arts Center features the work of nationally recognized visual and performing artists, as well as the work of Moraine Valley visual and performing arts students and faculty. Dedicated to lifelong learning in the arts, the Fine and Performing Arts Center offers a variety of noncredit classes in art, music, dance, and theater for all ages, including private lessons on instrument and voice, and special summer camps in the arts for children and teens.
(708) 974-5500 morainevalley.edu/fpac

## Food Service

The Café Moraine restaurant is located on the first floor of the Student Union. It is open Monday through Thursday from 7:30 a.m. to 7 p.m. and Friday from 7:30 a.m. to 2 p.m. Café Moraine accepts cash or credit card. Espresso Love, located in Building C (first floor), Building D (first floor), Building L (first floor and in the Library), offers specialty coffees and food. Visa,

Mastercard and cash are accepted. It is open from 7 a.m. to 7 p.m. and Friday from 7 a.m. to noon. Vending machines with soft drinks, coffee and snacks are available in the lounges of the main campus buildings. Café Moraine weekly menu: morainevalley.edu/resources/food_service.htm

## Health Fitness Center

Moraine Valley's Health Fitness Center is open to the community as well as the college's students and employees. The 5,400-square-foot facility offers a wide range of fitness equipment, including upright and recumbent bicycles; elliptical training machines; stair climbers; treadmills; and Universal, Paramount and Camstar Fitness Systems, as well as free weights, including Smith machine, various benches, squat racks, barbells and dumbbells, and a fully audio-supported dance studio. A fitness evaluation is required of all members which enables the degreed fitness trainers to determine your present fitness level and design your exercise program to assist you in meeting your health and fitness goals. A doctor's note may be required to allow you to participate in an exercise program. Students also can enroll in credit physical education classes, such as open schedule fitness classes, group fitness and dance classes that include membership to the center. (708) 974-5701 morainevalley.edu/hfc

## Job Resource Center

The Job Resource Center provides individual assistance, employer resources, job search skills workshops, online resources, and internship assistance. Located in S202, the center is open Monday through Friday 8:30 a.m. to 4:30 p.m. and Tuesday from 8:30 a.m. to 7 p.m.
(708) 974-5737 morainevalley.edu/jrc

Services include the following:
Full- and Part-Time Job Listings and Internships—Listings of jobs in the Chicago area are available in the center and on the web. In addition, jobs in areas such as education, technology, health care, and government are listed.

College Central Network-Free online job listing service. Employers from a consortium of Illinois community colleges post job openings. Students obtain a password, construct a resume and can search for employment opportunities online.

Student Employment-All campus student employee positions are posted and applications are taken in the Job Resource Center.

Career-Related Workshops-Workshops are offered during the fall and spring semesters. Areas covered include resume writing, cover letters, interviewing, job search strategies, internships, and other career related issues.
On-Campus Recruitment-Employers come to campus to recruit candidates for their positions. These visits are set up and advertised by the Job Resource Center.

Non-Traditional Careers Program-Non-Traditional Careers program brings awareness and exposure of career opportunities in which 25 percent or less of a certain gender is represented; for instance, men in nursing and women in automotive technology. This program also provides informational resources to help sustain students who are currently enrolled in non-traditional career fields.

Internship Program—Internships give students the opportunity to explore careers, make valuable contacts, gain industry-specific experience, and learn about themselves and the types of jobs that are available. Internships can be paid or unpaid.

Job Fairs and Other Events—Job and internship fairs occurs in the spring and fall. A mock interview day also is offered during the fall and spring, featuring real employers giving feedback in a mock interview situation.

## Library

The Library provides a variety of services and resources to help students attain educational goals. Located within the Library are the circulating audiovisual and book, reference and reserve collections; computers and printers; a listening-viewing area; and areas for individual and group studying. The collection has more than 121,000 items and includes electronic databases, books, magazines and microfilm, and other research tools. Librarians are available to assist students with their research and information needs. (708) 974-5234 morainevalley.edu/library

## Learning Development Support System (LDSS)

LDSS is a supportive program designed for students with learning disabilities who have the potential to succeed at college level. Currently enrolled students may receive services such as college orientation, diagnostic evaluation, academic and career support from the LDSS staff. Applications for the LDSS, including documentation, must be received by the Center for Disability Services prior to May 1 for fall semester, prior to Oct. 1 for spring semester, and prior to March 1 for summer session. Moraine Valley students are charged a $\$ 100$ fee for the diagnostic evaluation; nonstudents are charged a $\$ 200$ fee. For more information, contact the Center for Disability Services in Room S114 or call (708) 974-5711.

## Multicultural Student Affairs

Multicultural Student Affairs (MSA) brings together programs of the Minority Student Transfer Center and English Language Learner Center to promote the success of students of color and students with limited English. MSA programs are designed to recruit, retain and promote degree completion of these students. MSA provides direct student support services and coordinates individual and group activities to promote integration into the college environment and academic success. Services include academic advising, transfer assistance, assistance in evaluating educational documents and skills attained in other countries, computerized scholarship information search, career planning assistance, educational planning resources (references, college catalogs, college applications, videos, and transfer guides), faculty/staff and student mentoring program, peer (student) men-
toring and study groups, transfer workshops, university field trips, educational/cultural/social activities, and high school recruitment.

Multicultural Student Affairs takes an active role in promoting respect for diversity, and exploring and learning from the many cultures that our increasingly diverse student body represents. In collaboration with the Student Life Office, MSA supports student organizations such as the Alliance of African-American Students and Alliance of Latin American Students. MSA assists student organizations to coordinate educational, cultural and social activities, as well as offers guidance on issues related to diversity. Multicultural Student Affairs is located in Room S201. Office hours are Monday through Wednesday 9 a.m. to 7 p.m., and Thursday and Friday 9 a.m. to 5 p.m. (708) 974-5475 morainevalley.edu/transfer

## New Student Retention

The New Student Retention Office assists new students as they begin their college experience by offering transition programming, such as SOAR Student Orientation, Advising and Registration, and the COL-101 required course for all full-time students who are first-time enrollees in college and students with less than 30 credit hours of earned college credit who plan to register full-time. Students who have successfully completed 30 credit hours of college credit may gain an exemption from the COL-101 mandatory course by providing an official copy of their grades to the Office of New Student Retention, Room S216, or the Academic Advising Center, Room S201. For more information about new student programming and services, call (708) 974-5277. morainevalley.edu/newstudentretention

## Parking

There are approximately 4,500 parking spaces on the Moraine Valley campus. These spaces are available on a first-come, first-served basis. A properly displayed permit is required for faculty, visitor and handicapped parking. Vehicles parked in violation of the restricted areas will be issued a parking citation with a fine of $\$ 25$, and a fine of $\$ 250$ for handicapped violations.
Individuals or groups with questions concerning parking or parking permits should contact the Police Department at (708) 9745555. morainevalley.edu/police

Appeal Policy-It is the policy of the Police Department to fairly and impartially enforce the parking regulations at Moraine Valley. In the interest of the fair and impartial administration of justice, any person issued a citation at Moraine Valley may appeal. The appeal will be reviewed by the Moraine Valley parking appeal officer. A second review (if needed and/or requested) will be processed by the appropriate Moraine Valley vice president.
The appellant must fill out the appeal form completely, including all details which it is claimed excuse the parking violation. Every appeal will be reviewed on an individual basis. For first offenders, whether student, staff, faculty, or visitor, the review will result in a determination of:

1) No justification-Full fine due
2) Partial justification-1/2 fine due
3) Full justification-No fine due

The review of any individual's subsequent violation will be more stringent.

## Placement Testing and Test-taking

Placement Testing—Placement tests in reading, writing and mathematics are used to place students in the appropriate level of reading, English composition and mathematics courses. Students who do not demonstrate college-level skills in any of these areas will be required to take courses which will prepare them for college-level courses. These courses, if taken, will not count toward the associate's degree. (708) 974-5309
morainevalley.edu/testingcenter/placement.htm
Testing Center—The primary purpose of the Testing Center is to support the college mission and the campus goals/objectives by providing a broad range of testing and proctoring services, closely monitored and enforced. Located in B101, the Center's hours during the regular semester are Monday through Thursday 8 a.m. to 9:20 p.m., Friday 8 a.m. to $3: 50$ p.m., and Saturday 9 a.m. to 1:50 p.m. Identification with Moraine Valley student photo ID is required to receive a test.
(708) 974-5249 morainevalley.edu/testingcenter

## Police Department

The Police Department is located in Building P. Police officers are on campus 24 hours a day, 365 days a year. You can reach the office at (708) 974-5555 or ext. 5555, or in an emergency dial 911 on any phone, including pay phones without coins. In addition, red emergency telephones are located throughout the campus buildings. These telephones connect directly to the Police Department without dialing. Blue emergency telephone stations are located in each of the college's parking lots and also connect directly to the Police Department.

The Police Department provides many services for the college community, including emergency first aid, crime awareness programs, investigation into criminal offenses and related incidents, enforcement of college rules and regulations, escorts, assistance in motorist emergencies, correction of safety hazards, and processing of lost and found items. For a complete list of services, contact the Police Department at (708) 974-5555 or morainevalley.edu/police

## Student Support Services/TRIO

Student Support Services/TRIO assists students with academic need who are first-generation college students (neither parent has graduated from a four-year college), low-income or disabled. The program provides intensive support services to students and assists in their retention, graduation and transfer to a four-year college. Services include educational and personal support, computer accessibility and study assistance, financial assistance/scholarship searches, tutoring study groups, transfer assistance, academic advising, workshops and seminars, cultural activities, and tours to colleges and universities. Student Support Services is located in Room S219 and is open Monday through Friday 8 a.m. to 5 p.m. or by appointment. (708) 9745648 or morainevalley.edu/trio

## Study Abroad

An exciting opportunity to blend international travel with academic study through the Illinois Consortium of International Studies and Programs. Through this partnership, students can take advantage of programs in Salzburg, Austria (fall/spring); San José, Costa Rica (summer); or Canterbury, England (fall/spring). College credit can be earned and financial aid may be available.
morainevalley.edu/academics

## Speaking and Writing Center

The Speaking and Writing Center offers all students assistance with writing assignments, encourages excellence in communication skills through one-to-one conferencing, and builds students' confidence in their ability to communicate effectively. Faculty members and peer assistants are available to work with students on any part of the writing or speaking process: audience analysis, prewriting and invention, drafting and developing, revising, researching a topic, and documenting sources. The center is located in Room A258. Students are encouraged to sign up for appointments; however, walk-ins are welcome.
(708) 608-4216 http://writingcenter.morainevalley.edu

## Student Life

Student Organizations

For more details, visit the Student Life Office in the Student Union, Room U115. Call (708) 974-5390 or go to morainevalley.edu/studentlife

College Bowl-This is a varsity sport of the mind. This challenging competition is a cross between Jeopardy and Trivial Pursuit. Moraine Valley's College Bowl Team competes in the Skyway Conference Tournament, and the fall and spring regional tournaments. For information, call (708) 608-4177.

Combat to College Student Veterans' Organization-This organization's mission is to inform all Moraine Valley Community College Veterans of all their current education benefits and to provide a strong network to help achieve future academic and career goals, leading to the development of lifelong friendships and peer support. This organization is open to all family members of veterans, Department of Defense, State Department employees and all who support the Student Veterans' Organization's mission. For more information, call (708) 6084068.

Forensics (Speech Team)—Students engage in competitive public speaking or dramatic interpretation at intercollegiate competitions. Travel required; three to five weekend tournaments each semester. For more information, call (708) 974-5222.
www.morainevalley.edu/forensics
International Conversation Partners Program/International Student Ambassadors-This program offers Moraine Valley's international and American students the opportunity to learn about cultures and countries throughout the world. The International Conversation Partners program pairs international and U.S. students for conversation and English practice. The International Club offers trips, events and cultural activities for students to socialize, build new friendships, develop leadership skills, and increase international awareness.

Inter-Club Council-The ICC is the governing body of the co-curricular, cultural and special-interest clubs on campus. It coordinates all club trips, scholarships, fund-raisers, and other events.
Peers Educating Peers (PEP)_PEP is a group of trained student leaders whose primary goal is to promote and support healthy lifestyle choices in our community college environment. PEP provides an opportunity for interested students to educate fellow students about topics that lead to positive/healthy choices and personal safety. These trained leaders will educate the college community about issues such as alcohol and substance use and abuse, sexual responsibility, keeping physically fit, HIV/AIDS, self-esteem, stress management, healthy eating, family relationships, and mediation. For information, call (708) 974-5390.

Phi Theta Kappa-This is the international honors society of twoyear and community colleges. Since 1918 Phi Theta Kappa has chartered 1,100 chapters and inducted over one million members. Moraine Valley's chapter, Alpha Iota Lambda, conducts
meetings, initiates service projects, attends special activities geared toward the annual honors study topic, and is active on the state and national levels of PTK. A 3.5 grade point average and at least 12 credit hours are required, and there is a one-time induction fee. Call (708) 974-5353. morainevalley.edu/ptk
Student Government Association-The Student Government Association allows you to get involved in the decision-making process of Moraine Valley. The association provides a forum for student issues, allows an opportunity for individual leadership development, offers student services for the college community, allows an opportunity for social and educational learning environments, provides a line of communication from the students to the college administrators, and assists in volunteer work in the community. Call (708) 974-5353 morainevalley.edu/sga

Student Trustee-The student trustee, elected from the student body, represents the students on the Moraine Valley Community College Board of Trustees. Other responsibilities include representing the Student Association at college functions and serving as the Illinois Community College Board Student Advisory Committee representative. The student trustee must be willing to commit a minimum of 15 hours a week to the position and be willing to travel off campus. Call (708) 608-4165 to contact the student trustee. To run for office, contact (708) 974-5353.

## Publications

Glacier—The student newspaper offers journalism experience and leadership opportunities through volunteer service or classroom instruction. The Glacier is available in a print and online version.

Mastodon-This literary magazine contains works by Moraine Valley students and staff. The Mastodon also sponsors open mic performances twice per semester.
For information on both publications, call (708) 608-4177.

## Student Clubs

Learning extends beyond the classroom walls. Your experience at Moraine Valley will include involvement in the many opportunities the college offers for participation, entertainment, recreation, friendship, and leisure learning. Get involved with Student Life. And along the way, you'll have fun, enjoy rewarding experiences, and develop lasting friendships. Call (708) 974-5353.

## Bob and Marge Bobb Student Social/Cultural Lounge

Located on the first floor of the Student Union, the lounge offers you an opportunity to relax and socialize between classes. Stay in touch with the world via the Internet in our cyber lounge area or just sit and relax with fellow students. Offices and meeting space for student clubs and organizations are located on the second floor of the Student Union. Other resources, including magazines and games, are available for students to check out with a valid student ID card.

## Intercollegiate Athletics

At Moraine Valley, students can participate in an athletic program that will challenge them in a first-class conference.
Moraine Valley is a member of the Illinois Skyway Collegiate Conference (ISCC) and part of the National Junior College Athletic Association. The ISCC provides intercollegiate competition with Elgin Community College, College of Lake County, McHenry County College, Morton College, Oakton Community College, Prairie State College, and Waubonsee Community College. Students must meet conference eligibility requirements to participate in intercollegiate athletics. For more information, contact the director of Athletics at (708) 974-5727. morainevalley.edu/athletics

Moraine Valley's intercollegiate athletic teams include the following:

| For Men | For Women |
| :--- | :--- |
| Baseball | Basketball |
| Basketball | Soccer |
| Golf | Softball |
| Soccer | Tennis |
| Cross Country | Volleyball |
| Tennis | Cross Country |

## Intramural Sports

Students can compete in a friendly game against other Moraine Valley students. Intramural sports include volleyball, flag football, basketball, and soccer. Form a team and sign up to play. Call (708) 974-5353.

## Leadership Training Workshops

Student Life organizes leadership development seminars that are open to all students during the fall and spring semesters. The seminars assist students with developing leadership potential, learn more about themselves as team members, and enhance their college experience and professional etiquette. Seminars are free; registration is necessary. For information, call (708) 9745353.

## Music Groups

Moraine Concert Band-A performing group of wind, brass and percussion instrumentalists which performs a wide variety of music including traditional marches, classical transcriptions, musicals, and contemporary works. This group performs several concerts each year, both on and off campus. Registration is by permission of the instructor and prior band experience is required. May be taken for credit or noncredit. For more information, call (708) 974-5215.

Moraine Valley Chamber Singers-A performance group singing choral music of various styles. The vocal group performs at four concerts a year. Must be able to read music and match pitch. May be taken for credit only. For more information, call (708) 974-5755.

Moraine Chorale—A performance group of singers rehearsing and performing choral music of various styles. Members must be mature, experienced singers with a desire to perform. The Chorale performs five concerts a year on campus. Must be able to read music and match pitch. May be taken for credit or noncredit. For more information, call (708) 974-5755.

Moraine Valley Jazz Ensemble-A performing group of instrumentalists in which big band (jazz orchestra) performance practices are explained and achieved. Includes study of big band repertoire ranging from historic to contemporary as well as instruction in techniques of improvisation and correct interpretation of style. Registration is by permission of the instructor. May be taken for credit or noncredit. For more information, call (708) 974-5215.

Percussion Ensemble-A group of percussionists dedicated to the performance of music such as ragtime, classical, popular, Caribbean/Latin, chamber and jazz. The ensemble performs several concerts each semester both on and off campus. New members need not have a percussion background in order to participate, but must able to read standard music notation at a performance tempo. Registration is by permission of the instructor. May be taken as credit or noncredit course. For more information, call (708) 974-5215.
Small-Group Jazz Ensemble-A performing group of mixed instrumentalists in which small-group (chamber) jazz performance practices are explained and achieved. Course study includes the analysis and performance of historic small-group repertoire, instruction in techniques of improvisation and exploration of music forms common to jazz. Group performs several on-campus concerts each year. Registration is by permission of the instructor. May be taken as credit or noncredit course. For more information, call (708) 974-5215.

## Illinois Skyway Collegiate Conference

Moraine Valley's participation in the Illinois Skyway Collegiate Conference gives students the opportunity to compete in art, jazz, STEM and writing competitions. These activities heighten students' co-curricular activities at Moraine Valley. For information, contact the assistant dean of Liberal Arts at (708) 6084308.

## Student Rights and Responsibilities

## Human Rights Statement

It is the policy of Moraine Valley Community College not to discriminate on the basis of sex, race, age, religion, national or ethnic origin, disability, or other legally protected characteristics or conduct as stated by federal and state law(s) in its educational programs, activities or employment practices. Such discrimination is prohibited by Titles VI and VII of the Civil Rights Act, Title IX of the Educational Amendments, Sections 503 and 504 of the Rehabilitation Act of 1974, the Age Discrimination Acts of 1974 and 1975, and other federal and state statutes and regulations. Inquires concerning application of Title IX may be referred to the Vice President of Student Development, (708) 974-5209, 9000 W. College Pkwy., Palos Hills, IL 60465. Also see morainevalley.edu/humanresources/diversity.htm. Other inquiries concerning the application of other federal or state laws may be directed to the Director of Human Resources, (708) 974-5704, 9000 W. College Pkwy., Palos Hills, IL 60465.

## Academic Community Statement

As members of the Moraine Valley Academic Community, we are accountable to each other for upholding the Core Values of the college: integrity, responsibility, respect, fairness, and diversity. Together, we envision a positive learning environment that promotes the open exchange of ideas by practicing civility as defined in the Student Code of Conduct and ethical learning behavior as defined in the Code of Academic Integrity.

## Code of Academic Integrity

Academic Integrity serves as the foundation to the learning process that enables the open exchange of ideas among students, faculty, staff, and administrators. We are committed to the values of Academic Integrity:

- Honesty: deal truthfully in speech and action
- Responsibility: be accountable to oneself and others
- Integrity: adherence to a standard of values
- Trust: mutual confidence in word and action
- Fairness: consistent and equal treatment of individualsfree of favoritism
- Respect: honor yourself and others (Adapted from the Center for Academic Integrity)

Students will uphold the Code of Academic Integrity by understanding the policies and expectations in each of their classes. Students will complete course assignments, exams, learning activities, and other assessments in ways that reflect the values of Academic Integrity and encourage others to do the same.

## Academic Misconduct

Breaking the Code of Academic Integrity violates the trust of the larger academic community and, therefore, undermines the open learning environment of the college. Broad categories of misconduct may include:

- misrepresenting his or her work,
- fraudulently or unfairly advancing his or her academic position,
- being a party to another student's failure to maintain academic integrity,
- and violating the principles of academic integrity in any other manner
(adapted from Cornell University, Code of Academic Integrity).

Acts of Dishonesty include but are not limited to:
a) Cheating which includes, but is not limited to:
i) use of any unauthorized assistance, resources, materials or electronic/cellular devices with or without photographic capability in taking quizzes, tests or examinations;
ii) dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments;
iii) the acquisition, without permission, of a test or other academic material belonging to Moraine Valley Community College, to any department, or to any staff;
iv) reuse of work from another class without instructor approval.
b) Plagiarism which includes, but is not limited to:
i) purposeful use, by paraphrase or direct quotation, of the published or unpublished work of another person without acknowledgement;
ii) unacknowledged use of materials prepared by another person;
iii) use of an agency engaged in the selling of term papers or other academic materials;
iv) reuse of previously written work without proper attribution and instructor approval.

## Academic Integrity Violation Process

When a faculty member observes a violation of the Code of Academic Integrity or has evidence to suspect that a violation has occurred, the faculty member initiates the process to determine the extent of the violation and any penalties that may result. The faculty member must act on potential violations as soon as possible but no longer than five school days following the discovery of evidence of a violation or immediately before/after the next class period where the student is present. It is expected that students will complete their entire academic career with zero purposeful violations of Academic Integrity. Thus, any purposeful violation is seen as significant.

## Code of Student Conduct

The Moraine Valley Community College mission is to educate the whole person according to a philosophy which values the physical, social, intellectual, emotional, and ethical dimensions, and recognizes our responsibilities to one another and to the world we share. Consistent with this mission is an expectation that students will govern themselves in terms of appropriate behavior with emphasis on self-respect and respect for others. The college recognizes a student's right within the institution to freedom of speech, inquiry and assembly; to the peaceful pursuit of an education; and to the reasonable use of services and facilities of the college. The Code of Student Conduct has been established to control action going beyond the exercise of such rights, to maintain order on campus and to guarantee the broadest range of freedom for all who come to learn at Moraine Valley. This code reasonably limits some activities and prohibits certain behavior, which could interfere with the orderly operation of the college and the pursuit of its goals. Each student is responsible for knowledge of and compliance with this Code of Student Conduct, which is available through the Student Life Office, from the assistant dean of Student Life and Judicial Affairs (U115), from the vice president of Student Development (D201), or from the Moraine Valley Community College Police Department (Building P). The college further recognizes each student's right to procedural due process, including notice, a speedy and fair hearing, and appeal. For more detail information regarding the Code of Student Conduct please refer to the website: morainevalley.edu/studentlife/judicial/code.htm/ or feel free to contact (708) 608-4272 or (708) 974-5390.

## Standard of Behavior in Instructional, Student Service and Common Student Lounge Areas

In the interest of providing a conducive atmosphere in which students can study and do research in the Library/Learning Resources Center or other instructional and student service areas, and/or be in a comfortable environment like the Bob and Marge Bobb Student Life Center or common student lounges, where all students feel welcome and interact in a respectful manner, students must follow the posted area rules. Failure to comply with these rules or the directions of the Moraine Valley Community College staff is a violation of the Code of Student Conduct.

## Violation of Federal, State or Local Laws and College Discipline

College discipline may be imposed on students charged with an off-campus violation of federal, state or local laws.

Any member of the college community may file, with legitimate cause, misconduct charges against any student. A judicial advisor will investigate the charges to determine if they have merit and if they can be disposed of administratively by mutual consent of the parties involved. Charges determined to have merit that cannot be disposed of by mutual consent will be heard by a judicial body. A hearing will be conducted according to guidelines published in the Student Code. The judicial body, when determining that a student has violated the code, will impose
sanctions, ranging from a verbal warning to expulsion. More than one sanction may be imposed for any violation.

A decision reached or a sanction imposed by the judicial body may be appealed by either the complainant or the accused according to the procedures noted in the Student Code. Any decision made during the appeals process will be final.
The Code of Student Conduct provides detailed descriptions of rules and regulations, judicial authority, judicial procedures, sanctions, and options for appeal. Anyone filing charges, as well as anyone being charged with code violations, should carefully read the code. Anyone with questions or input related to the Code of Student Conduct is encouraged to meet with the assistant dean of Student Life and Judicial Affairs.

## Student Complaint and Hearing Process

Students have the right to express concern if they believe to have been treated unfairly, subjected to harassment, or discriminated against. The student complaint and hearing process provides a means to express such concern, request some form of relief, and receive an objective hearing. Student complaints are categorized in three ways:

1. Those arising out of an academic decision, primarily, the assignment of a final grade.
2. Those unrelated to an academic decision.
3. Those arising out of perception of discrimination or harassment by a member of the college community.

You are encouraged to use the complaint and hearing process when you believe it is necessary to do so. The right to complain, however, is accompanied by the responsibility to act with integrity. As such, it is inappropriate to file unfounded complaints against a student or staff person. Members of the college staff can assist you in deciding if filing a complaint is an appropriate step.

Student Complaints Arising out of Academic DecisionsAcademic decisions are defined as those actions that affect the student's academic standing at the college. Primarily, but not exclusively, these actions involve the assignment of a final grade.

Students have the right to express their concerns regarding the fair treatment of their academic achievements, keeping in mind that faculty have complete and sole responsibility for determining and issuing academic credit and final grades.

The following procedure should be used to appeal an academic decision.

1. Express your concerns to your instructor: Try to resolve the situation informally.
2. If Step 1 does not resolve your concerns, you may appeal in writing to the faculty member's dean, using the Academic Complaint form that is available in any academic subdivision office.

Remember that complaints must be initiated within 20 college days of the occurrence of the alleged violation.

The dean will thoroughly investigate your concerns and communicate the faculty member's decision in writing, normally within 40 college days of the written appeal's initiation.
3. If you are not satisfied after your appeal to the dean, you may continue the appeal to the vice president of Academic Affairs in writing within 10 college days.
The vice president will investigate your concerns. This investigation may involve the convening of a committee to consider the appeal. Once completed, the vice president will communicate in writing the faculty member's final decision, normally within 70 college days of the written appeal's initiation.

The decision made after the investigation by the vice president of Academic Affairs will be final.

Note: A college day is defined as any day excluding Saturdays, Sundays, breaks in the academic year or any holiday recognized by the college.
Student Complaints Unrelated to Academic Decisions—If a student has a complaint about the conduct of an instructor, member of the staff, another student, or about any aspect of college operations (for example, admission, refunds, withdrawal, parking), the complaint shall be handled according to the following procedure. (This procedure does not apply to allegations of sexual or discriminatory harassment, for which a separate process exists.)

1. When appropriate, express your concerns to the person immediately responsible. Attempt to resolve the complaint informally at this level.
2. If Step 1 does not resolve your concerns, you may appeal in writing to the assistant dean of Student Life and Judicial Affairs, using the Non-Academic Complaint Form available from the office of Student Life (U115), from the office of the vice president of Student Development (D201) or the office of the dean of Student Services (S221).

Remember that complaints must be initiated within 20 college days of the occurrence of the action being grieved.
The assistant dean of Student Life and Judicial Affairs will refer your complaint to the administrator responsible for the area of concern. A thorough investigation will be conducted, and you will be provided with a written determination, normally within 40 college days of the written appeal's initiation.
3. If resolution of your concerns does not occur, you may ask the vice president of Student Development to continue the appeal. You have 10 college days, after receiving the written determination, to request further review.
The vice president of Student Development will either address the complaint directly or refer it to the vice president responsible for the area of concern. The appropriate vice president will conduct an investigation and communicate a written decision to you, normally within 70 college days of the written appeal's initiation. The action of the vice president is final.

Note: A college day is defined as any day excluding Saturdays, Sundays, breaks in the academic year or any holiday recognized by the college.

Addressing Student Allegations of Sexual or Discriminatory Harassment-Moraine Valley is committed to providing a learning atmosphere that is free from intimidation and harassment. A process exists to report and resolve such incidents. A procedural statement, defining sexual and discriminatory harassment, and outlining the reporting and resolution process, is available from the offices of the vice president of Student Development (D201) or Student Life (U115).

Counselors are available to confidentially discuss situations that might be construed as harassment. Counselors can also help you identify courses of action to resolve incidents of this nature.

Sexual or discriminatory harassment includes any behavior or communication by an employee or a student which improperly singles out, stigmatizes or victimizes a student to his or her detriment because of sex, race, sexual orientation, religion, national or ethnic origin, age, disability, or other legally protected characteristics or conduct as stated by federal and state law(s). For a more detailed description, consult the Moraine Valley Community College Student Complaint and Hearing Process document. Sexual or discriminatory harassment by an employee or a student of Moraine Valley will not be tolerated.
The options to report and resolve allegations of sexual or discriminatory harassment include the following:

1. Informally discuss your concerns with a trained harassment advisor. All information obtained, as well as attempts to resolve issues, will be held in confidence. The primary goals are informal exploration of concerns and uncomplicated resolution of issues. Call the Counseling and Career Development Center at (708) 974-5722 or stop by S2O2 to arrange a meeting with a harassment advisor.
2. File a formal complaint. Complaints signed by the complainant must be submitted in writing within 40 college days following the incident, and directed to the assistant dean of Student Life and Judicial Affairs (U115), to the vice president of Student Development (D201) or to the affirmative action officer (L167). Students are asked to read the complete procedural statement available in designated offices to review the components of a formal complaint.

## Preliminary Investigation

Formal complaints will be carefully investigated by the assistant dean of Student Life and Judicial Affairs, the vice president of Student Development or the affirmative action officer, normally within 40 college days, to determine if reasonable grounds exist. If no reasonable grounds for harassment exist, the complainant will be informed of such a finding and the complaint will be dismissed. When reasonable grounds appear to exist, the investigator will identify the relief sought by the student and attempt to resolve the situation.
3. Request a formal investigation. The complainant must request, within 10 college days, in writing, that a formal
investigation occur. This option is granted only if the existence of reasonable grounds has been determined, and no resolution has occurred during the preliminary investigation.

## Formal Investigation

A three-person panel will be appointed by the vice president of Student Development to conduct either a formal investigation or a formal hearing. The panel will make a determination about the facts of the case and may recommend that disciplinary sanctions be directed to the respondent. The panel will write a report and direct it to the appropriate vice president, who will review the full written report and take appropriate action. All actions will be conveyed to both the complainant and to the respondent.
Following this action, the investigation of the college will be concluded. If the actions taken are not acceptable to the parties involved, each retain the right to obtain legal remedies outside the college.

## Privacy Rights of Parents and Students

Moraine Valley complies with all rules and regulations issued by the United States Department of Health and Human Services with respect to privacy rights of parents and students.

1974 Family Educational Rights and Privacy Act as amendedThis act requires that students be advised of their rights concerning education records and of certain categories of public information which the college has designated "directory information."

Students have the right to inspect and review all records that meet the act's definition of "education records." Education records are all records maintained by the college about each student.
The following are exceptions:

- employment records
- medical, psychological and counseling records used solely for treatment
- records of the Police Department
- financial records of a student's parents
- confidential letters and statements of recommendations placed in records prior to Jan. 1, 1975
- confidential letters and statements of recommendation for admission, employment or honorary recognition placed in records after Jan. 1, 1975, for which students have waived the right to inspect and review
Records are not maintained in a central location on campus. Requests to review records must be made separately to each office that maintains records. Requests must be made in writing and presented to the appropriate office. That office will have up to 45 days to honor requests. For most students these offices include the Cashier's Office, Bookstore, Admissions, Records, Registration, Financial Aid, Workforce Development and Community Services, Counseling and Career Development Center, Library, Alternative Learning, Academic Skills Center, and Center for Disability Services.

Students may challenge any information contained in education
records that may be misleading or inappropriate. This right does not extend to reviewing grades unless the grade assigned by an instructor was inaccurately recorded. To challenge information in a file, students must make a written request for a hearing to the vice president of Student Development.
The hearing shall be held within a reasonable period of time after the administration has received the request. The student shall be given notice of the day, place and time well in advance of the hearing. The hearing will be conducted by three staff members and two students appointed by the vice president of Student Development. A decision of the panel will be final and based solely on the evidence presented.

If the hearing is not conducted according to the student's expectation, he or she may insert a note of exception in the record. The institution will correct or amend any documented record in accordance with the decision of the hearing panel.
Under the act, prior written consent must be obtained before information may be disclosed to third parties unless they are exempted from this provision. These exemptions include the following:

- requests from the college staff with a legitimate educational "need to know"
- requests in accordance with a lawful subpoena or court order
- requests from representatives of agencies or organizations from which students have received financial aid
- requests from officials of other educational institutions in which students enroll
- requests from other persons specifically exempted from the prior consent requirement by the act (certain federal and state officials, organizations conducting studies on behalf of the college, accreditary organizations)
- requests for directory information

In accordance with the act, the college has designated the following categories of information as public. This information will be released to any inquirer with the approval of the dean of Enrollment Services unless students request that all or part of this list be withheld. These categories are the following:

- name
- city/town of residence
- major field of study
- participation in officially recognized activities and sports
- weight and height of members of athletic teams
- dates of attendance (including current classification and year, matriculation and withdrawal dates)
- degrees and awards received (type of degree and date granted)

If students wish to file a request withdrawing some or all of the information in the directory classification, they should report to the Registration Office and complete the necessary form. After students file this form, the Registration Office will notify the appropriate college offices and begin to comply as soon as possible.
All information, records, and correspondence are directed only to the student. These rights to educational records transfer to the
student when he/she reaches the age of 18 or attends a school beyond the high school level. Under the act, prior written consent from the students must be obtained before information may be disclosed to a third party unless they are exempted from the provision.
If students have questions regarding the provisions of the act, they may contact the office of the dean of Enrollment Services, S116.

## Rights and Responsibilities for Students with Disabilities

Moraine Valley Community College complies with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, which prohibit discrimination against individuals with disabilities.

According to these laws, no otherwise-qualified individual with a disability shall, solely by reason of his/her disability, be excluded from the participation in, be denied the benefits of, or be subjected to discrimination under any program or activity of a public institution receiving federal financial assistance.

Inquiries about accommodations for students with disabilities should be directed to the Center for Disability Services, Room S114, (708) 974-5711. morainevalley.edu/cds

## Use of Cellular Phones and Pagers

Students, faculty, staff, and college visitors may not use and must silence cell phones, pagers and other communication devices in all instructional areas, which include all labs, classrooms, conference rooms, and lecture halls during instructional sessions, workshops and meetings; the Library/Learning Resources Center; the Testing Center (B101), and other areas designated by the college.

## Presence of Children on Campus

For the safety of children on campus, children may not accompany students to class. Also, children may not be left unattended on the campus grounds, whether in college buildings, extension centers or at any college event.

## Smoke-Free Facilities

Moraine Valley Community College complies with the Smoke Free Illinois Act, which prohibits smoking in all campus buildings and within 15 feet from entrances, exits, windows that open, and ventilation intakes that serve an enclosed area where smoking is prohibited. Individuals who smoke in campus buildings or within 15 feet of buildings are in violation of state law and this policy.
The Act provides that the Illinois Department of Public Health, state-certified local public health departments, and local law enforcement agencies, including the Moraine Valley Police Department, shall enforce the provisions of the Act including assessments of fines. A person who smokes in an area where smoking is prohibited will be adjudicated at the Fifth Municipal District Court, 10220 South 76th Avenue, Bridgeview, Illinois, and can face fines from $\$ 50$ to $\$ 75$.

Smoking areas are designated throughout campus, marked with red lines and signs. Each area has trash receptacles with tops for extinguishing smoking materials. Smoking huts are located between Buildings $B$ and $S$ and on the east side of Building $A$. No-smoking signs are posted where smoking is not permitted.

## Sex Offender Procedure

The Campus Sex Crimes Prevention Act of 2002 is a federal law that provides for the tracking of convicted sex offenders enrolled at or employed by institutions of higher education. This Act requires colleges to issue a statement advising the campus community where information concerning registered sex offenders may be obtained and makes the college responsible for providing the name, address, birth date, place of employment, school attended, and offense to any individual on campus requesting information concerning sex offenders attending or employed by the college.
The Illinois State Police maintains a list of all sex offenders required to register in the State of Illinois. This database is updated daily and can be found at www.isp.state.il.us/sor. The Moraine Valley Community College Police Department also maintains a sex offender list that contains the names and information for all known sex offenders enrolled at or employed by the college. This sex offender list is available for the College community to view at the Moraine Valley Community College Police Department.
Additionally, federal and state laws require sex offenders to take certain steps upon enrollment in an institution of higher education, regardless of whether their enrollment is full or part time. Pursuant to the Campus Sex Crimes Prevention Act, individuals are required register as a sex offender in the jurisdiction where their residence is located and in the jurisdiction where the college they attend is located. In order to comply with federal and state registration requirements related to college enrollment, a sex offender must register within five days of attendance at a college by reporting in person to the Campus Police Department. Students who fail to register their status as sex offender are in violation of the registration act and face arrest and expulsion from the college.

Once a registered sex offender is identified as an enrollee of the college, the following procedure will be followed:
1.Upon enrollment of a registered sex offender, the Asst. Dean of Judicial Affairs or his designee will meet with the college's Police Chief or his designee to review the student's class schedule and determine which restrictions should be put in place.
2.After determining the appropriate restrictions for a particular student, the Police department will contact the registered sex offender student for a meeting to discuss the restrictions which will be in place while the student is on the college's campus.
3.During the meeting with the Police Chief (or his designee) and the registered sex offender student, Police Department will provide the student a written letter containing the restrictions the student must abide by while on the College's campus and will discuss each restriction verbally with the
student. During this meeting, the student will also be advised that his/her failure to comply with the restrictions outlined in the letter may result in denial of enrollment, access to campus and /or the decision to initiate police action against them by the college police department.
4.If a sex offender student is enrolled in a college class along with a student who is under the age of 18 , the Asst. Dean of Judicial Affairs will notify the instructor of the class of the student's status as a sex offender. The Asst. Dean of Judicial Affairs will also determine if there are other College staff members who need to be notified of a student's status as a registered sex offender in order to protect persons under the age of 18 on the College's campus. In some circumstances, the registered sex offender may be required to enroll in a course section that does not contain minors.
5.The Police Chief or his designee will notify the director or the Moraine Valley Child Care and any other college program solely serving students under the age of 18 , of all registered sex offenders enrolled in or employed by Moraine Valley Community College.
6. The College's Police Department will maintain a database of all registered sex offender students and employees. The database will contain identifier information as outlined in the Campus Sex Crimes Prevention Act. This information will be available for review by any person requesting information on registered sex offenders enrolled or employed by the college.

## Drug-Free Campus

In accordance with the Drug-Free School and Communities Act of 1989, Moraine Valley provides the following information about the use of alcoholic beverages and illegal chemical substances.
Help on Campus-Peers Educating Peers (PEP) is a student organization dedicated to preventing drug and alcohol abuse among college students. For information, call (708) 974-5390.
The Police Department is also available to Moraine Valley students. Call (708) 974-5555.

Help Lines-Some resources to help you or someone you know deal with drug or alcohol abuse:

| Adult Children of Alcoholics | (800) 279-4440 |
| :--- | :--- |
| Alcoholics Anonymous | (312) 346-1475 |
| Families Anonymous | (773) 777-4442 |
| Ingalls Family Care Center |  |
| $\quad$ Tinley Park | (708) 429-3300 |
| $\quad$ Harvey | (708) 333-2300 |
| Al-Anon and Alateen | (312) 409-7245 |
| Palos Community Hospital | (708) 361-4500 |
| 24-Hour Crisis Line <br> Suburban Council on Alcohol <br> and Substance Abuse | (708) 361-TALK |
| (708) 957-2854 |  |

Consult your local telephone directory for additional resources.
Violation of the Drug-Free Campus-Any Moraine Valley student guilty of being under the influence of or possessing intoxicating beverages or illegal chemical substances on college property is subject to immediate dismissal or possible criminal prosecution.

Laws-The following information pertains to federal and state laws concerning possession, usage, and sale of drugs and alcohol.

## Federal Regulations

## Federal Regulation 21-844

## Possession of Controlled Substances

It shall be unlawful for any person knowingly or intentionally to possess a controlled substance unless such substance was obtained directly or pursuant to a valid prescription or order from a practitioner. Any person who violates this subsection shall be sentenced to a term of imprisonment of not more than one year, a fine of not more than $\$ 5,000$, or both.

In an effort to curb the alarming trend of drug use among young people, Congress enacted legislation making it a federal offense to possess controlled substances with intent to distribute them on school property or within 1,000 feet of school property. Severe penalties of imprisonment and fines are applicable to such offenses.

## Illinois Compiled Statutes

## Chapter 720

Cannabis Control Act
550/4 (a) Possession of Cannabis-Not more than 2.5 grams Charge: Misdemeanor (Class C) Bond: \$75

550/4 (d) Possession of Cannabis-More than 30 grams Charge: Felony (Class 4) Bond: Must be set by judge

## Chapter 235, ILCS, Dram Shops

5/10-1 Manufacture, importation, distributions, and salemisrepresentation of age by minor.

For more information on federal and state laws, call the Moraine Valley Police Department at (708) 974-5555 or your local law enforcement agency.

Health Risks of Alcoholic Beverages and Illegal Chemical Substances

## Central Nervous System

Depressants

## Drugs

Alcohol
(Beer; wine; liquor;
some medications
for coughs, colds,
and congestion)
Tranquilizers
(Valium, Librium,
Equanil, Miltown)

Phencyclidine
(PCP)

CNS Depressants

## Barbituates

(Nembutal, Amytal, Phenobarbital)

## Central Nervous System

 StimulantsDrugs
Amphetamines, (Benzedrine,
Dexedrine, Methadrine, diet pills)
Cocaine (cocaine powder, freebased
cocaine, crack)

## ugs

Amphetamines, (Benzedrine, Dexedrine, Methadrine, diet pills)

Cocaine (cocaine powder, freebased cocaine, crack)

## Health Risks

Dehydration; hangover; long-term liver, heart and brain damage. Overdose or mixing with other depressants can cause respiratory failure.

Hangover, menstrual irregularities, increase or decrease effect of other drugs. Mixing with alcohol or other depressants can be fatal.

Visual disturbance, delirium, feelings of isolation and paranoia, violent behavior, psychosis.
High risk of irreversible liver damage if the analgesic Tylenol is taken in close proximity to the ingestion of any alcoholic beverage.

Lethargy, hangover, blurred vision, nausea, depression, seizures. Mixing Seconal with alcohol or depressants can be fatal.

## Health Risks <br> Nervousness, paranoia, hallucina- <br> Other <br> Drugs

 tions, dizziness, tremors, decreased mental abilities, sexual impotence, seizures. Death from overdose.Tremors, nasal bleeding, inflammation, perforation. Toxic psychosis, seizures. Depression (particularly afterward), confusion. Death from overdose (heart or respiratory failure) or impure supply.

## Narcotics

## Drugs

Heroin, Morphine, Opium, Codeine, Methadone, Demerol

Methaqualone (Quaaludes)

## Cannabis

## Drugs

Marijuana, Hashish, Tetrahydrocannabinol (THC)

## Hallucinogens/ <br> Psychedelics

Drugs
LSD, Psilocybin, MDA, Mescaline
(Peyote), DMT, STP

Inhalants, (Amyl Nitrate, Butyl Nitrate, Nitrous Oxide, glue, paint, magic markers)

## Health Risks

Respiratory and circulatory depression, dizziness, vomiting, sweating, dry mouth, lowered libido, complications from injection.

Hangover, nausea, seizures. Mixing with alcohol or other depressants can be fatal.

## Health Risks

Impaired driving ability. Possible lung damage. Reduced sperm count and sperm mobility. May affect ovulation cycles. Damage from impure doses.

## Health Risks

Depression, paranoia, physical exhaustion after use, psychosis, exaggerated body distortion, fears of death, flashbacks, adverse drug reactions.

## Health Risks

Nitrates: headache, dizziness, accelerated heart rate, nausea, nasal irritation, cough, lost erection. Solvents: bone marrow, liver, kidney, heart, CNS impairment.

Because of variations in drug use as well as changing laws, this information is not all-inclusive. For more information about any drug, consult your physician or local library.

## Workforce Development and Community Services

Moraine Valley offers a variety of professional and personal services, including assistance to local companies in strengthening their workforce and becoming more productive. Through scheduled short-term training, customized training, and outreach services, the college meets the demanding needs of business and industry, and provides opportunities for professional and personal growth for community residents.
(708) 974-5735 morainevalley.edu/wdcs

## Business/Professional Education and Training Programs and Services

Consulting Services-Business and industry experts assist companies in strategic planning by conducting needs assessments, developing performance metrics, calculating return on investment, evaluating performance, and developing cost-effective training solutions to increase productivity, decrease costs and increase profitability. Focus areas include human resources, small business support, manufacturing, operations, quality, engineering, and strategic planning.

Continuing Education for Health Professionals-Education and training programs are available to assist professionals in meeting continuing education licensure requirements of their fields. Programs include R.N refresher, CPR, critical care/trauma, clinical nursing, medical-surgical, respiratory therapy, addictions studies, physical therapy, and massage therapy.

Customized Training-Credit and noncredit programs are designed in a variety of training formats, including short courses, one- and two-day workshops, and other flexibly scheduled formats. The times and locations are customized to meet the needs of the companies. Training can take place at the college utilizing state-of-the-art labs and facilities, or be delivered on company sites to maximize learning on location. Training options include, but are not limited to, computer training, health and safety, English as a second language, Lean enterprise, maintenance, nondestructive testing, performance management, pneumatics, supply chain management, supervisory, training and welding.

Economic Development Council for the Southwest SuburbsMoraine Valley coordinates the coalition of government, education and business resources from the 26 Moraine Valley communities in a variety of initiatives focused on stimulating and supporting a healthy business climate within the southwest suburbs.

Safety Training-Specialized training in the area of health and safety is provided for municipalities, first responders, health and environmental professionals, as well as business and manufacturing. This OSHA- and EPA-approved training is available at Moraine Valley as well as on site at company locations. Programs include but are not limited to CPR and first aid, hazardous materials, forklift training, lockout/tagout, and confined space.

Green Training—Various courses developed by knowledgeable environmental professionals are designed and scheduled to assist individuals in learning how to conserve Earth's natural resources. Industry professionals will show you how to make positive changes in your lifestyle and business, ultimately affecting the sustainability of this planet. Topics include but are not limited to renewable energies, recycling, Resnet training and green savings for home and business.

Management and Professional Skills-Seminars and courses are designed to assist the development of management and supervisory personnel. Topics include, but are not limited to, lean manufacturing, team building, time management, delegating, sales, conflict resolution, human resources, and effective communications. Noncredit courses are available through regularly scheduled classes and customized training.

Online Noncredit Programs Through ed2go-These noncredit classes, which last six weeks, are project-oriented and include lessons, quizzes, hands-on assignments, discussion areas, supplementary links, and more. All courses are instructor-facilitated and allow you to complete the courses entirely online. For more information, visit ed2go.com/morainevalley.

Professional Development-Seminars, workshops and courses are designed to facilitate the lifelong learning necessary to ensure career growth. This training is geared toward new employees, supervision, management, and career transition. Skills covered include team building, time management, effective delegation, communication, problem solving, business etiquette, and supply chain management. Training is available through regularly scheduled classes and customized formats.

Real Estate Training Center-Moraine Valley is a Division of Financial and Professional Regulation as a provider of the educational requirements for real estate sales, brokerage, associate appraiser, and appraisal continuing education.

Technical Classes-These short-term courses are designed and scheduled to assist employees in staying abreast of changes in their professions or for those transitioning to a new career. The current offerings include computer and software training, Internet training, computer networking, web and computer graphics, electronics and integrated systems technology, nondestructive testing training, and welding. Training is available through regularly scheduled classes and customized formats.

Training Grants-Access to training grants is made available to companies in our community as dictated by the providers. The college will assist companies in the application process on a limited basis. Grants include but are not limited to Department of Commerce and Economic Opportunity, Illinois Community College Board, and the Secretary of State.

## Community Education

50 Plus Ageless Learning Center-Various programs and services are offered especially for older adults. Classes and seminars cover topics such as computers, fitness, dance, art, healthy living, second careers, and finance.

Valley Learning Center-Classes for children and teens are provided for young people interested in exploring new subjects that are challenging and fun. The Valley Learning Center provides classes in reading, mathematics, study skills, science, computers, and more to help children achieve their full potential.

Personal Development and Lifelong Learning-Moraine Valley offers hundreds of short courses for community members both on campus and at several local extension centers. Subject areas include arts and crafts, culinary, family education, fitness, healthy living, home improvement, landscaping, investments and money matters, languages, dance, computers, writing, and hobbies, to name a few.

Continueing Education Institute—The institute provides CE opportunities for a variety of fields, such as accountants, CPDUs for teachers, appraisers, counselors, social workers, occupational therapists, physical therapists, and more.

## Moraine Affiliate Illinois workNet Center

The Moraine Valley Illinois workNet Center provides programs and services to meet the needs of unemployed and underemployed individuals in securing gainful employment and assist employers in developing their current workforce and identifying qualified candidates for positions with their companies. Moraine Valley operates an affiliate Illinois workNet Center located on campus. The center is federally funded through the Workforce Investment Act (WIA) and offers employment services to unemployed low-income adults and dislocated workers. The center houses a resource room for job seekers to conduct a job search via the computer lab equipped with computers, fax machine, phone, copier, and other resources. The resource room is located in Building S, Room S202. In addition, the WIA grants offer eligible individuals access to individualized career services and retraining programs paid through the grant. The center, located in Room T100, is open Monday through Friday 8:30 a.m. to 4:30 p.m. (708) 974-5735 morainevalley.edu/wia

## Moraine Business and Conference Center

The Moraine Business and Conference Center (MBCC) provides a professional setting with state-of-the-art facilities for community member events. This new facility offers multipurpose event rooms, which can accommodate from 75 to 600+ people, as well as pre-function space. Depending on the specific needs, the MBCC can provide multimedia support, on-site business services, and flexible seating configurations. Catering with a wide range of menu options and affordable prices is also available. The MBCC is conveniently located and provides free parking and wireless Internet. For more information or to begin planning a special event, please contact the staff at (708) 9745690 or mbcc@morainevalley.edu.

## Transfer Programs

Moraine Valley Community College offers a wide variety of courses specifically designed for transfer. This enables students to complete their first two years of coursework leading toward a bachelor's degree in virtually any field of study at a four-year college or university. The keys to a successful transfer are to start planning immediately and to select coursework carefully. Moraine Valley academic advisors are available to help students develop an individual educational plan. Students who plan to complete an associate's degree and transfer as a junior in their major should achieve the following goals:

1. Complete the Associate in Arts (A.A.), Associate in Science (A.S.), Associate in Fine Arts (A.F.A.) or Associate in Arts in Teaching (A.A.T.) degree. The general education requirements and graduation requirements for these degrees are described in this section.
2. Fulfill the lower-division (freshman/sophomore-level courses) general education requirements of the institution students plan to attend. Every four-year college or university has different general education requirements. Transfer guides summarizing these requirements for the colleges and universities popular with Moraine Valley students are available in the Academic Advising Center. For other schools, students should consult the catalog and/or contact the intended transfer institution for additional information. In most cases, if students select their general education coursework carefully, they can simultaneously satisfy the general education requirements for both Moraine Valley and the transfer institution. (Also see Illinois Articulation Initiative on this page.)
3. Fulfill the lower-division requirements in your major field of study. Students should familiarize themselves with the criteria for admission into the specific program major at the college where a student plans to transfer. In many cases, specific lower-division coursework is required. Detailed information for many schools is available in the Academic Advising Center. Ask for transfer guides for specific majors and/or consult the catalog of the transfer school.
4. When a student is ready to transfer, obtain a Request for Transcript form from Admissions, Records and Registration. Complete the form, requesting that a transcript of the Moraine Valley coursework be sent to the transfer school. Be certain to verify that the transcript has been received by the transfer institution. If a student experiences difficulty in transferring any of his or her courses, contact the transfer articulation coordinator for assistance. Generally, when a college official intercedes on behalf of the student, he or she is able to facilitate the resolution of transfer problems.

## Associate in Arts Degree (A.A.)

These programs are for students who plan to major in liberal arts disciplines such as art, criminal justice, education, English, foreign language, geography, history, law, music, philosophy, physical education, political science, psychology, sociology, social work, speech, and theater.

## Associate in Science Degree (A.S.)

These programs are for students who plan to major in a sciencerelated discipline such as biology, chemistry, computer science, dentistry, engineering, geology, mathematics, medicine, medical technology, nursing, pharmacology, occupational and physical therapy, physics, and veterinary medicine. They are also for transfer business majors such as accounting, business administration, finance, human resources, marketing, and management.

## Associate in Fine Arts Degree (A.F.A.)

The A.F.A. is designed to meet the unique needs of students who plan to major in art. Typically, the bachelor's degree for art majors requires students to complete a sequential list of courses to support a portfolio in the major during their freshman and sophomore years, and will require that students complete additional general education at the transfer school. Students who are interested in art education are recommended to earn an A.A. degree rather than an A.F.A. degree.

## Associate in Arts in Teaching Degree (A.A.T.)

This program is for students who plan to major in specific areas of teacher education. Moraine Valley offers an A.A.T. for students planning to major in secondary mathematics, secondary science, and special education.

## Illinois Articulation Initiative

Moraine Valley Community College is a participant in the Illinois Articulation Initiative (IAI). Sponsored by the Illinois Board of Higher Education and the Illinois Community College Board, this initiative makes it easier for students to transfer credit between more than 100 participating Illinois colleges and universities. The initiative includes an agreed-upon Illinois General Education Core Curriculum and recommended freshman- and sophomorelevel courses for specific majors in the Illinois Baccalaureate Majors' Curricula. Completion of the general education core curriculum at any participating institution in Illinois assures transferring students that lower-division, campus wide general education requirements for an Associate in Arts or Associate in Science or bachelor's degree have been satisfied upon transfer to another participating institution. The receiving institution may require admitted transfer students to complete an institutionwide and/or mission-related graduation requirement beyond the scope of the general education core. The Associate in Fine Arts degree does not satisfy the entire IAI general education core; therefore, students who complete this degree must meet the general education requirements for the bachelor's degree of the university to which they plan to transfer. However, students wishing to meet the IAI general education core should consult with an academic advisor. Students who complete the general education core and the prescribed major curricula will be better
prepared to transfer as juniors in the baccalaureate major at participating schools. The most current list of participating schools can be found online at iTransfer.org. IAI course numbers are presented in the Course Descriptions section of this catalog.

## IAI Eligible Transfer Degrees Requirement Chart

Following is a summary of the credit hour requirements for the Associate in Arts (A.A.) and the Associate in Science (A.S.) degrees. Refer to the information following this chart for specific course selection.

## CREDIT HOURS REQUIRED

A. General Education Core Curriculum

1. Communication .. 9
2. Mathematics .................................................................. 3
3. Life and Physical Sciences ............................................. 8
4. Humanities and Fine Arts ................................................ 9
5. Social/Behavioral Sciences ............................................. 9

Total General Education Core Curriculum ............................ $\overline{38}$
B. Additional Degree Requirements ...................................... 3

## C. Baccalaureate Major/Minor

 and Elective Courses .21Total for A.A. and A.S. Degree...............................................................................

## General Education Core Curriculum

The general education core curriculum constitutes that part of an undergraduate education that develops breadth of knowledge and the expressive skills essential to more complex and in-depth learning throughout life. To develop breadth of knowledge, general education courses acquaint students with the methods of inquiry of the various academic disciplines and the different ways these disciplines view the world. The academic disciplines comprising the general education curriculum are the physical and life sciences, the humanities and fine arts, the social and behavioral sciences, and interdisciplinary combinations of these. To develop expressive skills, the general education curriculum requires courses that enhance written and oral communication and quantitative reasoning skills.

The foundation skills of communication (reading, writing, speaking, and listening), critical thinking and analysis/synthesis, quantification, and the use of resources (including technology and the library) are to be embedded in every general education course (adapted from Illinois Articulation Initiative, 2000).

## Specific Requirements for A.A. and A.S. Degrees

The general education core curriculum requirements listed below satisfy the statewide Illinois Articulation Initiative (IAI) and will transfer to participating schools as meeting their lowerdivision, campus wide general education requirements. Some schools may require admitted transfer students to complete an institutionwide and/or mission-related graduation requirement beyond the scope of the general education core.

Enrollment in some courses requires completion of a prerequisite, indicated by "PR". See course description for complete prerequisite information.
A. General Education Core Curriculum ............... 38 credit hours

| 1. Communications......................................................... 9 credit hours |  |
| :--- | :--- |
| COM-101 | Composition I (3) PR |
| COM-102 | Composition II (3) PR |


| COM-103 | Speech Fundamentals (3) (COM-103 satisfies the require- |
| :--- | :--- |
|  | ments of Public Act 87-581 addressing course work in |
| human relations) |  |


| 2. Mathematics ................................................................. 3 credit hours |  |
| :--- | :--- |
| MTH-120 | General Education Mathematics (3) PR |

MTH-121+
Math for Teachers I+II (3) PR
MTH-122 $\quad$ MTH-121 and 122 fulfills the general education require-

COM-101 Composition I (3) PR
COM-102 Composition II (3) PR
COM-103 Speech Fundamentals (3) (COM-103 satisfies the requirements of Public Act 87-581 addressing course work in human relations)
2 Mathematics
General Education Mathematics (3) PR
$\begin{array}{ll}\text { MTH-120 } & \text { General Education II (3) PR } \\ \text { MTH-121+ } & \text { Math for Teachers I+II (3) }\end{array}$
MTH-122 MTH-121 and 122 fulfills the general education requirement only for students seeking state certification as elementary teachers.
MTH-139 Probability and Statistics (4) PR
Finite Mathematics (4) PR
Sci. (4) PR
Calculus I/Analytic Geometry (5) PR
MTH-151 Calculus II/Analytic Geometry (5) PR Calculus III/Analytic Geometry (4) PR
3. Physical and Life Sciences
.8 credit hours
解 courses are four hours unless noted otherwise.
Life Science-select four hours from:
BIO-111 General Biology I (4)
BIO-112 General Biology II (4)
BIO-115 Anatomy and Phsiology (5)
BIO-180 Human Anatomy \& Physiology I (4) PR
NAT-111 Environmental Science I (4)
NAT-112 Environmental Science II (4)

CHM-111 Fundamentals of Chemistry (4) PR
CHM-131 Chemistry (University Oriented) I (4) PR
ASS-120 Intro to Earth Science (4)
EAS-130 Severe and Hazardous Weather (4)
GEL-150 Physical Geology (4)
PHS-101 Physical Science (4) PR
PHS-103 Descriptive Astronomy (4)
PHV $106+107$ Fund. of Physics \& Lab (3)(1) PR
PHY-110+111 Mechanical Universe \& Lab (3)(1) PR
PHY-203 Mechanics (4) PR
(Students transferring a life and/or physical science course INTO Moraine Valley may fulfill this requirement with a three-hour nonlab science course Moraine Valley students will need a total of eight credit hours.)
en the Physical and Life Science courses shown above has a one-hour hours, with the exception of PHY-106/PHY-107 and PHY-110/PHY-111.

## 4. Humanities and Fine Arts

 .9 credit hoursSelect three hours from Humanities, three hours from Fine Arts and an additional three hours from either. All courses are three hours unless noted otherwise.

1. Humanities-select three hours from:

ARB-202 Arabic IV (4) PR
FRE-202 French IV (4) PR
GER-202 German IV (4) PR
HUM-101 Western Humanities I: Foundations (3)
HUM-102 Western Humanities II: Continuities (3)
HUM-115 World Mythology (3)
HUM-120 Women in the Humanities (3)-(D)
HUM-135 or African and Middle Eastern Studies (3)-N
HUM-140 or Asian and Oceanic Humanities (3)-N
HUM-145 Native American Humanities (3)-N
JPN-202 Japanese IV (4) PR
LIT-213 American Literature I (3) PR
LIT-214 American Literature II (3) PR
LIT-215 or Bible as Literature I (3) PR
LIT-216 Bible as Literature II (3) PR
LIT-217 Intro to Poetry (3) PR
LIT-218 Intro to Drama (3) PR
LIT-219 Women in Literature (3)-(D) PR
LIT-220 Intro to Fiction (3) PR
LIT-221 English Literature I (3) PR
LIT-222 English Literature II (3) PR
LIT-223 Western Literature I (3) PR
LIT-224 Western Literature II (3) PR
LIT-225 Shakespeare (3) PR
LIT-226 Literature of the Non-Western World (3)-(N) PR
LIT-230 African American Literature (3)-(D) PR
PHI-101 Intro to Philosophy (3)
PHI-111 Critical Thinking (3)
PHI-120 World Religions (3)-(N)
PHI-125 Ethics (3)
SPA-202 Spanish IV (4) PR
SPA-213 Intro to Hispanic Literature (4) PR
2. Fine Arts-select 3 hours from:

ART-110 Art Appreciation (3)
ART-205 Survey of Art I (3)
ART-206 or Survey of Art II (3)
ART-208 or Survey of Art III (3)
ART-209 Survey of Non-Western Art (3)-(N)
HUM-101 Western Humanities I: Foundations (3)
HUM-102 Western Humanities II: Continuities (3)
HUM-120 Women in the Humanities (3)-(D)
HUM-135 or African and Middle Eastern Studies (3)-N
HUM-140 or Asian and Oceanic Humanities (3)-N
HUM-145 Native American Humanities (3)-N
MUS-106 Intro to American Music (3)
MUS-107 Music Appreciation (3)
THE-105 Theater Appreciation (3)
THE-107 Film Appreciation (3)
THE-110 History of the Theater (3)
THE-111 History of Film (3)
3. Select three hours from either Humanities or Fine Arts courses listed above.

## 5. Social/Behavioral Sciences

.9 credit hours
Select three courses from at least two different disciplines (no more than two courses from PSY-psychology, for example). All courses are three hours.
ANT-201 Intro to Physical Anthropology (3)
ANT-202 Intro to Cultural Anthropology (3)-(N)
ANT-210 Intro to Archaeology (3)
ECO-101 Principles of Macroeconomics (3)
ECO-102 Principles of Microeconomics (3)
GEO-101 or Cultural Geography (3)
GEO-102 World Regional Geography (3)-(N)
GEO-201 Economic Geography (3)-(N)
HIS-101 Western Civilization I (3)
HIS-102 Western Civilization II (3)
HIS-201 American History I (3)
HIS-202 American History II (3)
HIS-210 History of Asia (3)-(N)
HIS-215 History of Africa (3)-(N)
HIS-220 History of Latin America (3)-(N)
PSC-103 Introduction to Political Science (3)
PSC-110 American National Government (3)
PSC-115 State and Local Government (3)
PSC-210 International Relations (3)-(N)
PSC-215 Comparative Government (3)
PSC-225 Non-Western Comparative Politics (3)-(N)
PSY-101 Intro to Psychology (3)
PSY-104 Life-Span Developmental Psychology (3)
PSY-105 Child Psychology (3)
PSY-106 Adolescent Psychology (3)
PSY-202 Social Psychology (3) PR
PSY-210 Adult Psychology (3) PR
SOC-101 General Sociology (3)
SOC-102 Marriage and Family (3)
SOC-204 Sociology of Contemporary Social Problems (3) PR
SOC-210 Minority Groups (3)-(D)
SOC-215 Sociology of Sex and Gender (3)-(D) PR
SSC-101 Social Science I (3)
B. Additional Degree Requirements
.3 credit hours
Associate in Arts Degree-select three hours from Humanities, Fine Arts or Social/Behavioral Sciences above or ARB/FRE/GER/JPN/SPA-101, 102, 201.
Associate in Science Degree-select three hours from Math, Life/Physical Sciences above or MTH-121, 141, 142; Computer Science CSC-140, 206, 240; Information Management IMS-101, 115.*

## C. Baccalaureate Major/Minor Field and

 Elective Courses.21 credit hours
Includes lower-division coursework in a student's major and minor fields, additional hours from the above areas and other college credit courses. Students should refer to baccalaureate major summaries and transfer guides available in the Academic Advising Center. Periodic consultation with an academic advisor is strongly recommended. Also see "Foreign Language" section.
Total Degree Hours
62 credit hours

* MTH-121, 141, 142, CSC-140, 206, 240, and IMS-101 and 115 will not satisfy IAI GECC courses, but will count as electives in the completed AS degree.

Specific Requirements for A.F.A. Degree—Art<br>(Does not meet the Illinois Articulation Initiative-General Education Core Curriculum)

The A.F.A. degree in art requires a minimum of 65 credit hours and is designed to prepare students to transfer as a junior to a bachelor's degree in art program. Most schools require a portfolio review for admission to a bachelor's degree program, for registration in a second studio course in a medium, and/or for scholarship consideration. The Associate in Fine Arts degree does not satisfy the entire IAI general education core; therefore, students who complete this degree must meet the general education requirements for the bachelor's degree of the university to which they plan to transfer. However, students wishing to meet the IAI general education core should consult with an academic advisor. Students interested in art as a four-year major should consult the catalog of their transfer school and an academic advisor for requirements appropriate to the first two years of study. College catalogs and transfer guides for many four-year colleges are available in the Academic Advising Center. Art education majors are recommended to earn an A.A. degree rather than an A.F.A. degree.

Enrollment in some courses requires completion of a prerequisite, indicated by a "PR". See course description for complete prerequisite information.
A. General Education Core Curriculum. $\qquad$ 32 credit hours

1. Communications......................................................... 9 credit hours

COM-101 Composition I (3) PR
COM-102 Composition II (3) PR
COM-103 Speech Fundamentals (3) (COM-103 satisfies the requirements of Public Act 87-581 addressing course work in human relations)
2. Mathematics .............................................................. 3 credit hours

MTH-120 Quantitative Literacy (3) PR
MTH-121+ Math for Teachers I+II (3) PR
MTH-122 MTH-121 and 122 fulfills the general education requirement only for students seeking state certification as elementary teachers.
MTH-139 Probability and Statistics (4) PR
MTH-143 Finite Mathematics (4) PR
MTH-145 Calculus for Bus. \& Soc. Sci. (4) PR
MTH-150 Calculus I/Analytic Geometry (5) PR
MTH-151 Calculus II/Analytic Geometry (5) PR
MTH-152 Calculus III/Analytic Geometry (4) PR
MTH-212 Statistics for Business (4) PR
3. Physical and Life Sciences............................................. 8 credit hours

Select four hours from Life Science and four hours from Physical Science. All courses are four hours unless noted otherwise.
Life Science-select four hours from:
BIO-111 General Biology I (4)
BIO-112 General Biology II (4)
BIO-115 Anatomy and Physiology (5)
BIO-119 Introductory Microbiology (4)
BIO-180 Human Anatomy \& Physiology I (4) PR
NAT-111 Environmental Science I (4)
NAT-112 Environmental Science II (4)
Physical Science—select four hours from:
CHM-111 Fundamentals of Chemistry (4) PR

CHM-131 Chemistry (University Oriented) I (4) PR
EAS-120 Intro to Earth Science (4)
EAS-125 Intro to Weather and Climate (4)
EAS-130 Severe and Hazardous Weather (4)
GEL-150 Physical Geology (4)
PHS-101 Physical Science (4) PR
PHS-103 Descriptive Astronomy (4)
PHY-106 + 107 Fund. of Physics \& Lab (3)(1) PR
PHY-110+111 Mechanical Universe \& Lab (3)(1) PR
PHY-150 Mechanics, Heat \& Sound (4) PR
PHY-203 Mechanics (4) PR
(Students transferring a life and/or physical science course INTO Moraine Valley may fulfill this requirement with a three-hour nonlab science course and a four-hour lab science course for a total of seven credit hours. Native Moraine Valley students will need a total of eight credit hours.)
Each of the Physical and Life Science courses shown above has a one-hour laboratory component included within the course structure and contact hours, with the exception of PHY-106/PHY-107 and PHY-110/PHY-111.
4. Humanities $\qquad$ .6 credit hours
Select six hours from:
ARB-202 Arabic IV (4) PR
FRE-202 French IV (4) PR
GER-202 German IV (4) PR
HUM-101 Western Humanities I: Foundations (3)
HUM-102 Western Humanities II: Continuities (3)
HUM-115 World Mythology (3)
HUM-120 Women in the Humanities (3)-(D)
HUM-135 or African and Middle Eastern Humanities (3)-N
HUM-140 or Asian and Oceanic Humanities (3)-N
HUM-145 Native American Humanities (3)-N
JPN-202 Japanese IV (4) PR
LIT-213 American Literature I (3) PR
LIT-214 American Literature II (3) PR
LIT-215 or Bible as Literature I (3) PR
LIT-216 Bible as Literature II (3) PR
LIT-217 Intro to Poetry (3) PR
LIT-218 Intro to Drama (3) PR
LIT-219 Women in Literature (3)-(D) PR
LIT-220 Intro to Fiction (3) PR
LIT-221 English Literature I (3) PR
LIT-222 English Literature II (3) PR
LIT-223 Western Literature I (3) PR
LIT-224 Western Literature II (3) PR
LIT-225 Shakespeare (3) PR
LIT-226 Literature of the Non-Western World (3)-(N) PR
LIT-230 African American Literature (3)-(D) PR
PHI-101 Intro to Philosophy (3)
PHI-111 Critical Thinking (3)
PHI-120 World Religions (3)-(N)
PHI-125 Ethics (3)
SPA-202 Spanish IV (4) PR
SPA-213 Intro to Hispanic Literature (3) PR
5. Social/Behavioral Sciences $\qquad$ .6 credit hours
Select six hours from two of the following disciplines (e.g., no more than one course from PSY-psychology, for example).

ANT-201 Intro to Physical Anthropology (3)
ANT-202 Intro to Cultural Anthropology (3)-(N)
ANT-210 Intro to Archaeology (3)
ECO-101 Principles of Macroeconomics (3)
ECO-102 Principles of Microeconomics (3)
GEO-101 or Cultural Geography (3)
GEO-102 or World Regional Geography (3)-(N)
GEO-201 Economic Geography (3)-(N)
HIS-101 Western Civilization I (3)

HIS-102
HIS-201
Western Civilization II (3)
American History II (3)
HIS-210 History of Asia (3)-(N)
HIS-215 History of Africa (3)-(N)
HIS-220 History of Latin America (3)-(N)
PSC-103 Introduction to Political Science (3)
PSC-110 American National Government (3)
PSC-115 State and Local Government (3)
PSC-210 International Relations (3)-(N)
PSC-215 Comparative Government (3)
PSC-225 Non-Western Comparative Politics (3)-(N)
PSY-101 Intro to Psychology (3)
PSY-104 Life-Span Developmental Psychology (3)
PSY-105 Child Psychology (3)
PSY-106 Adolescent Psychology (3)
PSY-202 Social Psychology (3) PR
PSY-210 Adult Psychology (3) PR
SOC-101 General Sociology (3)
SOC-102 Marriage and Family (3)
SOC-204 Sociology of Contemporary Social Problems (3) PR
SOC-210 Minority Groups (3)-(D)
SOC-215 Sociology of Sex and Gender (3)-(D)
SSC-101 Social Science I (3)

## B. Art Requirements

$\qquad$ 24 credit hours
ART-101 Drawing I (3)
ART-104 Drawing II (3) PR
ART-105 Life Drawing (3) PR
ART-116 Two-Dimensional Design (3)
ART-118 Three-Dimensional Design (3) PR
ART-205 Survey of Art I (3)
ART-206 Survey of Art II (3)
ART-208 Survey of Art III (3)
C. Elective Studio Courses $\qquad$ .9 credit hours
Select nine hours from the following:

| ART-120 | Beginning Painting (3) PR |
| :--- | :--- |
| ART-125 | Ceramics I (3) |
| ART-146 | Intro. to Computer Art (3) PR |
| ART-150 | Sculpture (3) PR |
| ART-160 | Intro to Photography (3) |
| ART-170 | Printmaking (3) |

Total Degree Hours .65 credit hours

## Specific Requirements for A.A.T. in Secondary Mathematics Degree

This program prepares students for careers in the high need teaching discipline of secondary education mathematics. This program is meant to facilitate the transfer of community college students desiring to become high school mathematics teachers into upper-division teacher education programs at four-year universities. Minimum 2.5 grade point average required for graduation. Students obtaining an A.A.T. in Secondary Mathematics degree should have equal status with university native students at the beginning of the junior year. Students should be aware that admission to teacher education programs is competitive and generally includes a minimum grade point average determined by the transfer institution. Students should declare the A.A.T. major and consult with an academic advisor as soon as possible in their enrollment. Students should also consult the college catalog and transfer guides for their intended transfer institution for any additional requirements.

Enrollment in some courses requires completion of a prerequisite, indicated by a "PR". See course description for complete prerequisite information.
A. General Education Core Curriculum . .40 credit hours

1. Communications. .9 credit hours
COM-101 Composition I (3) PR

COM-102 Composition II (3) PR
COM-103 Speech Fundamentals (3) PR (COM-103 satisfies the requirements of Public Act 87-581 addressing course work in human relations)
2. Mathematics $\qquad$ .5 credit hours MTH-150 Calculus I/Analytic Geometry (5) PR
3. Physical and Life Sciences $\qquad$ .8 credit hours

Select four hours from Life Science and four hours from Physical Science. All courses are four hours unless noted otherwise.

Life Science-select four hours from:
BIO-111 General Biology I (4)
BIO-112 General Biology II (4)
BIO-115 Anatomy and Physiology (5)
BIO-119 Introductory Microbiology (4)
BIO-180 Human Anatomy \& Physiology I (4) PR
NAT-111 Environmental Science I (4)
NAT-112 Environmental Science II (4)
Physical Science-select four hours from:
CHM-111 Fundamentals of Chemistry (4) PR
CHM-131 Chemistry (University Oriented) I (4) PR
EAS-120 Intro to Earth Science (4)
EAS-125 Intro to Weather and Climate (4)
EAS-130 Severe and Hazardous Weather (4)
GEL-150 Physical Geology (4)
PHS-101 Physical Science (4) PR
PHS-103 Descriptive Astronomy (4)
PHY-106 + 107 Fund. of Physics \& Lab (3)(1) PR
PHY-110+111 Mechanical Universe \& Lab (3)(1) PR
PHY-150 Mechanics, Heat \& Sound (4) PR
PHY-203 Mechanics (4) PR
(Students transferring a life and/or physical science course INTO Moraine Valley may fulfill this requirement with a three-hour nonlab science course and a four-hour lab science course for a total of seven credit hours. Native Moraine Valley students will need a total of eight credit hours.)
Each of the Physical and Life Science courses shown above has a one-hour laboratory component included within the course structure and contact hours, with the exception of PHY-106/PHY-107 and PHY-110/PHY-111.

## 4. Humanities and Fine Arts............................................... 9 credit hours

Select three hours from Humanities, three hours from Fine Arts and an additional three hours from either. All courses are three hours unless noted otherwise.

1. Humanities-select three hours from:

ARB-202 Arabic IV (4) PR
FRE-202 French IV (4) PR
GER-202 German IV (4) PR
HUM-101 Western Humanities I: Foundations (3)
HUM-102 Western Humanities II: Continuities (3)
HUM-115 World Mythology (3)
HUM-120 Women in the Humanities (3)-(D)
HUM-135 or African and Middle Eastern Humanities (3)-N
HUM-140 or Asian and Oceanic Humanities (3)-N
HUM-145 Native American Humanities (3)-N
JPN-202 Japanese IV (4) PR
LIT-213 American Literature I (3) PR
LIT-214 American Literature II (3) PR
LIT-215 or Bible as Literature I (3) PR
LIT-216 Bible as Literature II (3) PR
LIT-217 Intro to Poetry (3) PR
LIT-218 Intro to Drama (3) PR
LIT-219 Women in Literature (3) PR-(D)
LIT-220 Intro to Fiction (3) PR
LIT-221 English Literature I (3) PR
LIT-222 English Literature II (3) PR
LIT-223 Western Literature I (3) PR
LIT-224 Western Literature II (3) PR
LIT-225 Shakespeare (3) PR
LIT-226 Literature of the Non-Western World (3)-(N) PR
LIT-230 African American Literature(3)-(D) PR
PHI-101 Intro to Philosophy (3)
PHI-111 Critical Thinking (3)
PHI-120 World Religions (3)-(N)
PHI-125 Ethics (3)
SPA-202 Spanish IV (4) PR
SPA-213 Intro to Hispanic Literature (3) PR
2. Fine Arts—select 3 hours from:

ART-110 Art Appreciation (3)
ART-205 Survey of Art I (3)
ART-206 or Survey of Art II (3)
ART-208 or Survey of Art III (3)
ART-209 Survey of Non-Western Art (3)-(N)
HUM-101 Western Humanities I: Foundations (3)
HUM-102 Western Humanities II: Continuities (3)
HUM-120 Women in the Humanities (3)-(D)
HUM-135 or African and Middle Eastern Humanities (3)-N
HUM-140 or Asian and Oceanic Humanities (3)-N
HUM-145 Native American Humanities (3)-N
MUS-106 Intro to American Music (3)
MUS-107 Music Appreciation (3)
THE-105 Theater Appreciation (3)
THE-107 Film Appreciation (3)
THE-110 History of the Theater (3)
THE-111 History of Film (3)
3. Select three hours from either Humanities or Fine Arts courses listed above.

## 5. Social/Behavioral Sciences

.9 credit hours
Select three courses from at least two different disciplines (no more than two courses from PSY-Psychology, for example). All courses are three hours.
ANT-201 Intro to Physical Anthropology (3)
ANT-202 Intro to Cultural Anthropology (3)-(N)
ANT-210 Intro to Archaeology (3)
ECO-101 Principles of Macroeconomics (3)
ECO-102 Principles of Microeconomics (3)
GEO-101 or Cultural Geography (3)
GEO-102 World Regional Geography (3)-(N)
GEO-201 Economic Geography (3)-(N)
HIS-101 Western Civilization I (3)
HIS-102 Western Civilization II (3)
HIS-201 American History I (3)
HIS-202 American History II (3)
HIS-210 History of Asia (3)-(N)
HIS-215 History of Africa (3)-(N)
HIS-220 History of Latin America (3)-(N)
PSC-103 Introduction to Political Science (3)
PSC-110 American National Government (3)
PSC-115 State and Local Government (3)
PSC-210 International Relations (3)-(N)
PSC-215 Comparative Government (3)
PSC-225 Non-Western Comparative Politics (3)-(N)
PSY-101 Introduction to Psychology (3)
PSY-104 Life-Span Developmental Psychology (3)
PSY-105 Child Psychology (3)
PSY-106 Adolescent Psychology (3)
PSY-202 Social Psychology (3) PR
PSY-210 Adult Psychology (3) PR
SOC-101 General Sociology (3)
SOC-102 Marriage and Family (3)
SOC-204 Sociology of Contemporary Social Problems (3) PR
SOC-210 Minority Groups (3)-(D)
SOC-215 Sociology of Sex and Gender (3)-(D)
SSC-101 Social Science I (3)

## B. Professional Education

6 credit hours
EDU-100 Introduction to Education (3) PR
Choose three credits from EDU-110, EDU-111, PSY-215

## C. Mathematics Major

12 credit hours
MTH-151 Calculus II/Analytic Geometry (5) PR
MTH-152 Calculus III/Analytic Geometry (4) PR
Choose 3 credits from MTH-139, 201, 210 PR
D. Electives .4 credit hours
Choose additional general education, professional education, or mathematics courses depending upon transfer institution.

Total Degree Hours
62 credit hours

## Specific Requirements for A.A.T. in Secondary Science Degree

This program prepares students for careers in the high need teaching discipline of secondary education science. This program is meant to facilitate the transfer of community college students desiring to become high school science teachers into upper-division teaching education programs. Minimum 2.5 grade point average required for graduation. Students obtaining an A.A.T. in Secondary Science degree should have equal status with university native students at the beginning of junior year.

Enrollment in some courses requires completion of a prerequisite, indicated by a "PR". See course description for complete prerequisite information.
A. General Education Core Curriculum 37-39 credit hours

1. Communications

9 credit hours

| COM-101 | Composition I (3) PR |
| :--- | :--- |
| COM-102 | Composition II (3) PR |
| COM-103 | Speech Fundamentals (3) (COM-103 satisfies the require- |
|  | ments of Public Act 87-581 addressing course work in <br> human relations) |

2. Mathematics $\qquad$ $8-10$ credit hours

MTH-150 Calculus I/Analytic Geometry (5) PR
And one course from
MTH-139 Probability and Statistics (4) PR
MTH-151 Calculus II/Analytic Geometry (5) PR
MTH-210 Linear Algebra (3) PR
MTH-212 Statistics for Business (4) PR
3. Physical and Life Sciences $\qquad$ 8 credit hours

Select four hours from Life Science and four hours from Physical Science. All courses are four hours unless noted otherwise.

Physical and Life Science-select four hours from:
BIO-111 General Biology I (4)
EAS-120 Intro to Earth Science (4
(Students transferring a life and/or physical science course INTO Moraine Valley may fulfill this requirement with a three-hour nonlab science course and a four-hour lab science course for a total of seven credit hours. Native Moraine Valley students will need a total of eight credit hours.)
Each of the Physical and Life Science courses shown above has a one-hour laboratory component included within the course structure and contact hours, with the exception of PHY-106/PHY-107 and PHY-110/PHY-111.

## 4. Humanities and Fine Arts

6 credit hours
Select three hours from Humanities and three hours from Fine Arts. Recommended that students choose a literature course and a non-Western or Third World Cultures course, depending upon the transfer institution. All courses are three hours unless noted otherwise.

1. Humanities-select three hours from:

ARB-202 Arabic IV (4) PR
FRE-202 French IV (4) PR
GER-202 German IV (4) PR
HUM-101 Western Humanities I: Foundations (3)
HUM-102 Western Humanities II: Continuities (3)
HUM-115 World Mythology (3)
HUM-120 Women in the Humanities (3)-(D)
HUM-135 or African and Middle Eastern Humanities (3)-N
HUM-140 or Asian and Oceanic Humanities (3)-N
HUM-145 Native American Humanities (3)-N
JPN-202 Japanese IV (4) PR
LIT-213 American Literature I (3) PR
LIT-214 American Literature II (3) PR

LIT-215 or Bible as Literature I (3) PR
LIT-216 Bible as Literature II (3) PR
LIT-217 Intro to Poetry (3) PR
LIT-218 Intro to Drama (3) PR
LIT-219 Women in Literature (3)-(D) PR
LIT-220 Intro to Fiction (3) PR
LIT-221 English Literature I (3) PR
LIT-222 English Literature II (3) PR
LIT-223 Western Literature I (3) PR
LIT-224 Western Literature II (3) PR
LIT-225 Shakespeare (3) PR
LIT-226 Literature of the Non-Western World (3)-(N) PR
LIT-230 African American Literature(3)-(D) PR
PHI-101 Intro to Philosophy (3)
PHI-111 Critical Thinking (3)
PHI-120 World Religions (3)-(N)
PHI-125 Ethics (3)
SPA-202 Spanish IV (4) PR
SPA-213 Intro to Hispanic Literature PR
2. Fine Arts-select 3 hours from:

ART-110 Art Appreciation (3)
ART-205 Survey of Art I (3)
ART-206 or Survey of Art II (3)
ART-208 Survey of Art III (3)
ART-209 Survey of Non-Western Art (3)-(N)
HUM-101 Western Humanities I: Foundations (3)
HUM-102 Western Humanities II: Continuities (3)
HUM-120 Women in the Humanities (3)-(D)
HUM-135 or African and Middle Eastern Humanities (3)-N
HUM-140 or Asian and Oceanic Humanities (3)-N
HUM-145 Native American Humanities (3)-N
MUS-106 Intro to American Music (3)
MUS-107 Music Appreciation (3)
THE-105 Theater Appreciation (3)
THE-107 Film Appreciation (3)
THE-110 History of the Theater (3)
THE-111 History of Film (3)

## 5. Social/Behavioral Sciences

$\qquad$ .6 credit hours

Select two courses from at least two different disciplines (no more than one course from PSY-Psychology, for example). Recommended that students choose from HIS-201(U.S. History), PSC-110 (American National Government), or PSY105 (Child Psychology) depending upon transfer institution. All courses are three hours.

ANT-201 Intro to Physical Anthropology (3)
ANT-202 Intro to Cultural Anthropology (3)-(N)
ANT-210 Intro to Archaeology (3)
ECO-101 Principles of Macroeconomics (3)
ECO-102 Principles of Microeconomics (3)
GEO-101 or Cultural Geography (3)
GEO-102 World Regional Geography (3)-(N)
GEO-201 Economic Geography (3)-(N)
HIS-101 Western Civilization I (3)
HIS-102 Western Civilization II (3)
HIS-201 American History I (3)
HIS-202 American History II (3)
HIS-210 History of Asia (3)-(N)
HIS-215 History of Africa (3)-(N)
HIS-220 History of Latin America (3)-(N)
PSC-103 Introduction to Political Science (3)
PSC-110 American National Government (3)
PSC-115 State and Local Government (3)
PSC-210 International Relations (3)-(N)
PSC-215 Comparative Government (3)
PSC-225 Non-Western Comparative Politics (3)-(N)
PSY-101 Introduction to Psychology (3)
PSY-104 Life-Span Developmental Psychology (3)

PSY-105
PSY-106
Social Psychology (3) PR
PSY-210 Adult Psychology (3) PR
SOC-101 General Sociology (3)
SOC-102 Marriage and Family (3)
SOC-204 Sociology of Contemporary Social Problems (3) PR
SOC-210 Minority Groups (3)-(D)
SOC-215 Sociology of Sex and Gender (3)-(D)
SSC-101 Social Science I (3)

## B. Professional Education

$\qquad$ 3 credit hours
EDU-100 Introduction to Education (3)
C. Science Major $\qquad$ .8 credit hours
CHM-131 Chemistry I (4) PR
PHY-203 Mechanics (4) PR
E. Other Major Course Requirements. $\qquad$ 12 credit hours
BIO-112 General Biology II (4)
CHM-132 Chemistry II (4) PR
PHY-204 Heat, Electricity and Magnetism (4) PR

## E. Electives

If needed to complete minimum 62 credit hour requirement. Course(s) should be based on transfer institution requirements.

BIO-115 Anatomy and Physiology (5)
BIO-119 Introductory Microbiology (4) PR
BIO-180 Human Anatomy and Physiology I (4) PR
BIO-181 Human Anatomy and Physiology II (4) PR
CHM-203 Organic Chemistry I (4) PR
CHM-204 Organic Chemistry II (4) PR
GEL-150 Physical Geology (4)
NAT-111 Environmental Science I (4)
NAT-112 Environmental Science II (4)
PHS-101 Physical Science (4) PR
PHS-103 Descriptive Astronomy (4)
PHY-205 Waves and Modern Physics (4) PR
Total Degree Hours .. 62 credit hours

## Specific Requirements for A.A.T. in Special Education Degree

This program prepares students for careers in the high need teaching discipline of special education. This program is meant to facilitate the transfer of community college students desiring to become special education teachers into upper-division teaching education programs. Students obtaining an A.A.T. in Special Education degree should have equal status with university native students at the beginning of junior year.
Enrollment in some courses requires completion of a prerequisite, indicated by a "PR". See course description for complete prerequisite information.
A. General Education Core Curriculum ........37-39 credit hours

1. Communications

9 credit hours
COM-101 Composition I (3) PR
COM-102 Composition II (3) PR
COM-103 Speech Fundamentals (3) (COM-103 satisfies the requirements of Public Act 87-581 addressing course work in human relations)
2. Mathematics .
.10 credit hours
MTH-121 Math for Teachers I (3) PR
MTH-122 Math for Teachers II (3) PR
MTH-139 Probability and Statistics (4) PR (Another higher level MTH course may be substituted with education director's permission.)
3. Physical and Life Sciences.
.8 credit hours
Select four hours from Life Science and four hours from Physical Science. All courses are four hours unless noted otherwise.

Life Science-select four hours from:
BIO-111 General Biology I (4)
BIO-112 General Biology II (4)
BIO-115 Anatomy and Physiology (5)
BIO-119 Introductory Microbiology (4)
BIO-180 Human Anatomy \& Physiology I (4) PR
NAT-111 Environmental Science I (4)
NAT-112 Environmental Science II (4)
Physical Science—select four hours from:
CHM-111 Fundamentals of Chemistry (4) PR
CHM-131 Chemistry (University Oriented) I (4) PR
EAS-120 Intro to Earth Science (4)
EAS-125 Intro to Weather and Climate (4)
EAS-130 Severe and Hazardous Weather (4)
GEL-150 Physical Geology (4)
PHS-101 Physical Science (4) PR
PHS-103 Descriptive Astronomy (4)
PHY-106 + 107 Fund. of Physics \& Lab (3)(1) PR
PHY-110+111 Mechanical Universe \& Lab (3)(1) PR
PHY-150 Mechanics, Heat \& Sound (4) PR PHY-203 Mechanics (4) PR
(Students transferring a life and/or physical science course INTO Moraine Valley may fulfill this requirement with a three-hour nonlab science course and a four-hour lab science course for a total of seven credit hours. Native Moraine Valley students will need a total of eight credit hours.)

Each of the Physical and Life Science courses shown above has a one-hour laboratory component included within the course structure and contact hours, with the exception of PHY-106/PHY-107 and PHY-110/PHY-111.

## 4. Humanities and Fine Arts

.9 credit hours
Select three hours from Humanities, three hours from Fine Arts and an additional three hours from either. All courses are three hours unless noted otherwise.

1. Humanities-select three hours from:

ARB-202 Arabic IV (4) PR
FRE-202 French IV (4) PR
GER-202 German IV (4) PR
HUM-101 Western Humanities I: Foundations (3)
HUM-102 Western Humanities II: Continuities (3)
HUM-115 World Mythology (3)
HUM-120 Women in the Humanities (3)-(D)
HUM-135 or African and Middle Eastern Humanities (3)-N
HUM-140 or Asian and Oceanic Humanities (3)-N
HUM-145 Native American Humanities (3)-N
JPN-202 Japanese IV (4) PR
LIT-213 American Literature I (3) PR
LIT-214 American Literature II (3) PR
LIT-215 or Bible as Literature I (3) PR
LIT-216 Bible as Literature II (3) PR
LIT-217 Intro to Poetry (3) PR
LIT-218 Intro to Drama (3) PR
LIT-219 Women in Literature (3) PR-(D)
LIT-220 Intro to Fiction (3) PR
LIT-221 English Literature I (3) PR
LIT-222 English Literature II (3) PR
LIT-223 Western Literature I (3) PR
LIT-224 Western Literature II (3) PR
LIT-225 Shakespeare (3) PR
LIT-226 Literature of the Non-Western World (3)-(N) PR
LIT-230 African American Literature (3)-(D) PR
PHI-101 Intro to Philosophy (3)
PHI-111 Critical Thinking (3)
PHI-120 World Religions (3)-(N)
PHI-125 Ethics (3)
SPA-202 Spanish IV (4) PR
SPA-213 Intro to Hispanic Literature (3) PR
2. Fine Arts-select 3 hours from:

ART-110 Art Appreciation (3)
ART-205 Survey of Art I (3)
ART-206 or Survey of Art II (3)
ART-208 or Survey of Art III (3)
ART-209 Survey of Non-Western Art (3)-(N)
HUM-101 Western Humanities I: Foundations (3)
HUM-102 Western Humanities II: Continuities (3)
HUM-120 Women in the Humanities (3)-(D)
HUM-135 or African and Middle Eastern Humanities (3)-N
HUM-140 or Asian and Oceanic Humanities (3)-N
HUM-145 Native American Humanities (3)-N
MUS-106 Intro to American Music (3)
MUS-107 Music Appreciation (3)
THE-105 Theater Appreciation (3)
THE-107 Film Appreciation (3)
THE-110 History of the Theater (3)
THE-111 History of Film (3)
3. Select three hours from either Humanities or Fine Arts courses listed above.

## 5. Social/Behavioral Sciences 9 credit hours

Select three courses from at least two different disciplines (no more than two courses from PSY-Psychology, for example). All courses are three hours. Recommended that students choose PSC-110 (American National Government) and PSY-101 (Introduction to Psychology) depending upon transfer institution.
$\begin{array}{ll}\text { ANT-201 } & \text { Intro to Physical Anthropology (3) } \\ \text { ANT-202 } & \text { Intro to Cultural Anthropology (3)-(N) } \\ \text { ANT-210 } & \text { Intro to Archaeology (3) }\end{array}$

ECO-101 Principles of Macroeconomics (3)
ECO-102 Principles of Microeconomics (3)
GEO-101 or Cultural Geography (3)
GEO-102 World Regional Geography (3)-(N)
GEO-201 Economic Geography (3)-(N)
HIS-101 Western Civilization I (3)
HIS-102 Western Civilization II (3)
HIS-201 American History I (3)
HIS-202 American History II (3)
HIS-210 History of Asia (3)-(N)
HIS-215 History of Africa (3)-(N)
HIS-220 History of Latin America (3)-(N)
PSC-103 Introduction to Political Science (3)
PSC-110 American National Government (3)
PSC-115 State and Local Government (3)
PSC-210 International Relations (3)-(N)
PSC-215 Comparative Government (3)
PSC-225 Non-Western Comparative Politics (3)-(N)
PSY-101 Introduction to Psychology (3)
PSY-104 Life-Span Developmental Psychology (3)
PSY-105 Child Psychology (3)
PSY-106 Adolescent Psychology (3)
PSY-202 Social Psychology (3) PR
PSY-210 Adult Psychology (3) PR
SOC-101 General Sociology (3)
SOC-102 Marriage and Family (3)
SOC-204 Sociology of Contemporary Social Problems (3) PR
SOC-210 Minority Groups (3)-(D)
SOC-215 Sociology of Sex and Gender (3)-(D)
SSC-101 Social Science I (3)
B. Professional Education
.18 credit hours
EDU-100 Introduction to Education (3) PR
EDU-110 Technology for Educators (3) PR
EDU-111 Students with Disabilities in Schools (3) PR
PSY-105 Child Psychology (3)
PSY-215 Educational Psychology (3) PR
Choose one of the following:
EDU-104 Introduction to the Foundation of Reading (3)
EDU-106 Language Development (3) PR
EDU-108 Diversity of Schools and Society (3)
**Students must receive at least a " C " or better in professional/special education coursework for the Sp. Ed Degree.

Total Degree Hours
63 credit hours

In addition to the specific courses listed above, students seeking an A.A.T. degree in Secondary Mathematics, Secondary Science or Special Education also must meet the following requirements for graduation:
Basic Skills Test-Students must earn a passing score on the Illinois Certification Testing System (ICTS) Basic Skills Test in order to earn the A.A.T. degree. A passing score on the test is also required for admission to teacher preparation programs at all Illinois four-year universities. Students should complete the Basic Skills Test after earning 45 semester hours of college credit and indicate both Moraine Valley and the intended transfer institution as receiving institutions on the application for the test. Students are responsible for ensuring that an official score report is on file in the Moraine Valley Records Office prior to the
graduation deadline. Students who do not earn a passing grade on the Basic Skills Test can repeat the test; however, the A.A.T. degree cannot be awarded until a passing grade is received.

Portfolio-Students must submit a portfolio documenting that they have met the standards of the A.A.T. degree. The portfolio is developed over the course of the student's enrollment at the college beginning the first semester. Students will be introduced to the portfolio at special orientation programs and in EDU-100.
Students must submit the complete portfolio for evaluation during their final semester of enrollment prior to graduation. Successful completion of the portfolio is required for the A.A.T. degree to be awarded.
GPA-Admission to baccalaureate degree Education is competitive and most senior institutions require a GPA of 2.5 or higher. It is required to have a GPA of 2.5 of A.A.T. in Science graduates to ensure admission into the desired Education program.

## Notes for all Students Pursuing an A.A., A.S., A.F.A., or A.A.T.

Foreign Language-Only a few institutions require competence in a foreign or second language as part of their campus wide general education requirements. Instead, some colleges require competence in a single foreign language (through the third or fourth college semester, or three or four years in high school) for a Bachelor of Arts (but not a Bachelor of Science) degree. In other schools, competence in a single foreign language is a requirement imposed by an individual department (such as art history or international business) or by a college within the university (usually, a College of Arts and Sciences). Students planning to earn a Bachelor of Arts degree or a degree from a College of Arts and Sciences should be alerted to the probable need to complete a foreign language-and should complete their foreign language requirement before transfer.

Diversity Courses (N, D)—Some baccalaureate institutions require a diversity course in their campuswide or major specific general education requirements. Diversity courses approved through the Illinois Articulation Initiative (IAI) are identified in the requirements lists as follows: N designates courses examining human diversity from a non-U.S. /non-European perspective. D designates courses examining human diversity within the United States. Students are encouraged to complete any diversity courses required by their intended transfer institution as part of their general education core at Moraine Valley.

Additional Graduation Requirements-refer to page 33.

## Transfer Agreements

All colleges and universities accept Moraine Valley's courses on the basis of a review of individual transcripts. By carefully constructing an educational plan, students can select courses that will meet the general education requirements and the lower-division major course requirements specified by the transfer school.
The following Illinois universities have a compact agreement with Moraine Valley and accept Moraine Valley's Associate in Arts and Associate in Science degrees as satisfying lower-division general education requirements and grant the student junior standing:

## Chicago State University Eastern Illinois University Governors State University <br> Illinois State University <br> Northeastern Illinois State University <br> Northern Illinois University <br> Saint Xavier University <br> Southern Illinois University at Carbondale <br> Southern Illinois University at Edwardsville <br> University of Illinois at Springfield <br> Western Illinois University

See transfer guides for these schools in the Academic Advising Center for special conditions that may apply. The Associate in Fine Arts (A.F.A.) degree does not qualify for compact agreements.

## Transfer Majors

At Moraine Valley Community College, students can begin the first two years of study for virtually any bachelor's degree program.
Moraine's transfer degree programs in Associate in Arts (A.A.), and Associate in Science (A.S.), Associate in Fine Arts (A.F.A.) and the Associate in Arts in Teaching (A.A.T.) will support a variety of college transfer majors. Each of these transfer degrees are a combination of core general education courses and designated major specific electives.

Students who already know where they will transfer and what major they will pursue can contact a Moraine Valley advisor in the Academic Advising Center who will assist them in obtaining detailed information needed to develop an appropriate education plan. One of the keys to success in transferring to a four-year college or university rests upon the ability of the students to carefully plan their course of study. With proper and guided planning students should encounter few difficulties with the transfer process.

Transfer students who have not decided on a major can select courses to explore interests and fulfill general education requirements. Undecided students are encouraged to make an appointment with a counselor in the Counseling and Career Development Center during their first semester to begin the process of exploring career possibilities and selecting a college major.

Advisors in the Academic Advising Center can assist undecided transfer students in developing a flexible educational plan that will apply to many different majors. Students can also access the Illinois Articulation Initiative Website iTransfer.org. This site provides information on selected transfer majors, under the topic of (IAI) Baccalaureate Majors' Recommendation. Within the site, students can find various transfer course recommendations for baccalaureate majors. It lists courses typically taken by freshman and sophomores pursuing a specific major. The courses recommended on the site are meant for students who are undecided about a transfer school. The IAI Web site at iTransfer.org in conjunction with the assistance from Moraine Valley's academic advisors will ensure a smooth and successful transfer process.

## Index for Sample Transfer Majors


† These majors are not IAI Baccalaureate Majors'
Recommendations. See specific transfer major page for details.

The program(s) of study listed below is a model for students who are undecided about a transfer institution and uncertain about specific course requirements.
Students who already know their intended transfer institution should refer to that school's catalog. In any case, students are strongly encouraged to work with a Moraine Valley academic advisor for specific course selection advice and transfer planning support.

## Art

## Associate in Fine Arts Degree

65 Credit Hours
Moraine Valley Community College offers the foundation courses required in the first two years of an art degree. Students interested in transferring to a baccalaureate program should be aware that transfer admission will be competitive and generally requires a portfolio review for admission to the major, advanced course placement and scholarship consideration. These course recommendations are intended for students who are undecided about a transfer school. Students who have selected a transfer school should consult the catalog of that school and an academic advisor for requirements appropriate to the first two years of study. College catalogs and transfer guides for many four-year colleges are available in the Academic Advising Center.

Required General Education Core Curriculum-32 credits as follows:
Communication-9 credits

| COM-101 | Composition I |
| :--- | :--- |
| COM-102 | Composition II |
| COM-103 | Speech Fundamentals |

COM-103 Speech Fundamentals 3
Mathematics-select 3 credits from:
MTH-120, 121+122, 139, 143, 145, 150, 151, 152, 212
Physical and Life Sciences-8 credits
Choose four credits from BIO-111, 112, 115, 119, 180;
NAT-111, 112
Choose four credits from CHM-111, 131; EAS-120, 125, 130;
GEL-150; PHS-101, 103; PHY-106 \& 107, 110 \& 111,
150, 203
Each of the Physical and Life Science courses shown above has a one-hour laboratory component included within the course structure and contact hours, with the exception of PHY-106/PHY-107 and PHY-110/PHY-111.

Humanities-6 credits
Choose six credits from ARB-202; FRE-202; GER-202; HUM-101, 102, $115,120,135$ or 140 or 145; JPN-202; LIT-213, 214, 215 or 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 230; PHI-101, 111, 120, 125; SPA-202, 213

Social and Behavioral Sciences-6 credits
Select six credits from more than one prefix.
ANT-201, 202, 210; ECO-101, 102; GEO-101 or 102,
201; HIS-101, 102, 201, 202, 210, 215, 220;
PSC-103, 110, 115, 210, 215, 225; PSY-101, 104, 105,
106, 202, 210; SOC-101, 102, 204, 210, 215; SSC-101

| Art Requirements—24 credits |  |  |
| :---: | :--- | :--- |
| ART-101 | Drawing I | 3 |
| ART-104 | Drawing II | 3 |
| ART-105 | Life Drawing | 3 |
| ART-116 | Two-Dimensional Design | 3 |
| ART-118 | Three-Dimensional Design | 3 |
| ART-205 | Survey of Art I | 3 |
| ART-206 | Survey of Art II | 3 |
| ART-208 | Survey of Art III | 3 |

Electives-Studio Courses-9 credits
Select nine additional credits from the following list:
ART-120 Beginning Painting 3
ART-125 Ceramics I 3
ART-146 Introduction to Computer Art 3
ART-150 Sculpture 3
ART-160 Introduction to Photography 3
ART-170 Printmaking 3

* Foreign Language Requirement: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire foreign language sequence at one institution.
The Association Fine Arts degree does not satisfy the Illinois Articulation Initiative General Education Core Curriculum; therefore, students who complete this degree must meet the general education requirements for the bachelor's degree of the university to which they plan to transfer.

The program(s) of study listed below is a model for students who are undecided about a transfer institution and uncertain about specific course requirements. This model transfer major is structured as a recommendation from the Illinois Community College Board for the Illinois Articulation Initiative Baccalaureate Major (I.A.I. Major).

Students who already know their intended transfer institution should refer to that school's catalog. In any case, students are strongly encouraged to work with a Moraine Valley academic advisor for specific course selection advice and transfer planning support.

## Biological Sciences

Associate in Science Degree
62 Credit Hours
The study of living organisms, biology, is an extremely large and diverse field. Baccalaureate programs offer a wide variety of study options. Some programs may emphasize cell and molecular biology, whereas others emphasize organismal, ecological and evolutionary biology. In addition, this curriculum provides the pre-professional foundation for many of the health career areas. Students interested in the biological sciences as a four-year major are encouraged to complete the Associate in Science (A.S.) degree prior to transfer. These course recommendations are intended for students who are undecided about a transfer school. Students who have selected a transfer school should consult the catalog of that school and an academic advisor for requirements appropriate to the first two years of study. College catalogs and transfer guides for many four-year colleges are available in the Academic Advising Center.

| Required General Education Core Curriculum-40 credits as follows: |  |  |
| :---: | :---: | :---: |
| Communication-9 credits |  |  |
| COM-101 | Composition I | 3 |
| COM-102 | Composition II | 3 |
| COM-103 | Speech Fundamentals | 3 |
| Mathematics ${ }^{1}-5$ credits |  |  |
| MTH-150 | Calculus I/Analytic Geometry | 5 |
| Physical and Life Sciences-8 credits |  |  |
| BIO-111** | General Biology I | 4 |
| CHM-131 | Chemistry (University-Oriented) I | 4 |

Each of the Physical and Life Science courses shown above has a one-hour laboratory component included within the course structure and contact hours, with the exception of PHY-106/PHY-107 and PHY-110/PHY-111.
Humanities and Fine Arts²-9 credits
Choose three credits from ARB-202; FRE-202; GER-202; HUM-101,
$102,115,120,135$ or 140 or 145 ; JPN-202; LIT-213, 214 , 215 or $216,217,218,219,220,221,222,223,224,225$,
226, 227, 230; PHI 101, 111, 120, 125; SPA-202, 213
Choose three credits from ART-110, 205, 206 or 208, 209;
HUM-101, 102, 120, 135 or 140 or 145; MUS-106, 107;
THE-105, 107, 110, 111
Choose an additional three credits from any of the courses above.
Social and Behavioral Sciences-9 credits
Select nine credits from more than one prefix.
ANT-201, 202, 210; ECO-101, 102; GEO-101 or 102,
201; HIS-101, 102, 201, 202, 210, 215, 220;
PSC-103, 110, 115, 210, 215, 225; PSY-101, 104, 105,
106, 202, 210; SOC-101, 102, 204, 210, 215; SSC-101

Additional Degree Requirement-4 credits
BIO-112** General Biology II 4
Area of Concentration/Major Field-12 credits
CHM-132 Chemistry (University-Oriented) II 4
CHM-203 Organic Chemistry I 4
CHM-204 Organic Chemistry II 4
Electives-6/7 credits
Students should consult the catalog of the intended transfer school to choose the most appropriate courses for this major.

[^0][^1]The program(s) of study listed below is a model for students who are undecided about a transfer institution and uncertain about specific course requirements. This model transfer major is structured as a recommendation from the Illinois Community College Board for the Illinois Articulation Initiative Baccalaureate Major (I.A.I. Major).

Students who already know their intended transfer institution should refer to that school's catalog. In any case, students are strongly encouraged to work with a Moraine Valley academic advisor for specific course selection advice and transfer planning support.

## Business

## Associate in Science Degree <br> 62 Credit Hours

This program is designed for students pursuing a baccalaureate degree in the areas of accounting, finance, general business, management, or marketing. Students interested in business as a four-year major are encouraged to complete the Associate in Science (A.S.) degree prior to transfer. These course recommendations are intended for students who are undecided about a transfer school. Students who have selected a transfer school should consult the catalog of that school and an academic advisor for requirements appropriate to the first two years of study. College catalogs and transfer guides for many four-year colleges are available in the Academic Advising Center.

Required General Education Core Curriculum-39/40 credits as follows:

| Communication-9 | credits |
| :--- | :--- |
| COM-101 | Composition I |
| COM-102 | Composition II |
| COM-103 | Speech Fundamentals |
| Mathematics'—4/5 credits |  |
| MTH-145 Calculus for Business and Social Science <br> or  <br> MTH-150 Calculus I/Analytic Geometry |  |

Physical and Life Sciences-8 credits
Choose four credits from BIO-111, 112, 115, 119, 180;
NAT-111, 112
Choose four credits from CHM-111, 131; EAS-120, 125, 130;
GEL-150; PHS-101, 103; PHY-106 \& 107, 110 \& 111, 150, 203
Each of the Physical and Life Science courses shown above has a one-hour laboratory component included within the course structure and contact hours, with the exception of PHY-106/PHY-107 and PHY-110/PHY-111.

Humanities and Fine Arts ${ }^{2}-9$ credits
Choose three credits from ARB-202; FRE-202; GER-202; HUM-101,
102, 115, 120, 135 or 140 or 145; JPN-202; LIT-213, 214, 215 or
216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227,
230; PHI-101, 111, 120, 125*; SPA-202, 213
Choose three credits from ART-110, 205, 206 or 208, 209;
HUM-101, 102, 120, 135 or 140 or 145; MUS-106, 107; THE-105,
107, 110, 111
3
Choose an additional three credits from any of the courses above. 3
*Recommended
Social and Behavioral Sciences-9 credits
ECO-101 Principles of Macroeconomics 3
ECO-102 Principles of Microeconomics 3
Choose an additional three credits from ANT-201, 202, 210;
GEO-101 or 102, 201; HIS-101, 102, 201, 202, 210, 215, 220,
PSC-103, 110, 115, 210, 215, 225; PSY-101, 104,
105,106, 202, 210; SOC-101, 102, 204, 210, 215; SSC-101

Additional Degree Requirement-3 credits
IMS-115 Introduction to PC Applications 3
Area of Concentration/Major Field-12 credits
BUS-142 Financial Accounting 4
BUS-143 Managerial Accounting 4
MTH-212 Business Statistics 4
Electives-7/8 credits
The following courses might be accepted by four-year schools in place of an equivalent course in the business major. Students should consult the catalog of the intended transfer school to determine the most appropriate courses for this major.

| BUS-100 | Introduction to Business | 3 |
| :--- | :--- | :---: |
| BUS-110  <br> or  <br> BUS-136 Legal Environment in Business |  |  |
|  | Business Law | 3 |

[^2]The program(s) of study listed below is a model for students who are undecided about a transfer institution and uncertain about specific course requirements. This model transfer major is structured as a recommendation from the Illinois Community College Board for the Illinois Articulation Initiative Baccalaureate Major (I.A.I. Major).

Students who already know their intended transfer institution should refer to that school's catalog. In any case, students are strongly encouraged to work with a Moraine Valley academic advisor for specific course selection advice and transfer planning support.

## Chemistry

## Associate in Science Degree <br> 62 Credit Hours

This program provides an in-depth foundation of sequential coursework in science and math. Courses taken during the third and fourth years of the baccalaureate program provide the additional preparation necessary for graduate studies and/or work in industry. Multiple tracks are often available. For example, some four-year institutions offer a specialty in biochemistry or certification for high school teaching. Students should complete the Associate in Science (A.S.) degree prior to transfer and should be aware that it may be necessary to take additional credit hours depending on the requirements of the intended transfer institution. These course recommendations are intended for students who are undecided about a transfer school. Students who have selected a transfer school should consult the catalog of that school and an academic advisor for requirements appropriate to the first two years of study. College catalogs and transfer guides for many four-year colleges are available in the Academic Advising Center.

Required General Education Core Curriculum-40 credits as follows:
Communications-9 credits
COM-101 Composition I 3

COM-102 Composition II 3
COM-103 Speech Fundamentals 3
Mathematics ${ }^{1}-5$ credits
MTH-150 Calculus I/Analytic Geometry
Physical and Life Sciences-8 credits
PHY-203 Mechanics 4
Choose four credits from BIO-111, 112, 115, 119, 180;
NAT-111, 112
Each of the Physical and Life Science courses shown above has a one-hour laboratory component included within the course structure and contact hours, with the exception of PHY-106/PHY-107 and PHY-110/PHY-111.
Humanities and Fine Arts²-9 credits
Choose three credits from ARB-202; FRE-202; GER-202, HUM-101, $102,115,120,135$ or 140 or 145; JPN-202; LIT-213,214, 215 or 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 230; PHI-101, 111, 120, 125; SPA-202, 213 3
Choose three credits from ART-110, 205, 206 or 208,
209; HUM-101, 102, 120, 135 or 140 or 145; MUS-106, 107; THE-105, 107, 110, 111
Choose an additional three credits from any of the courses above 3

Social and Behavioral Sciences-9 credits
Select nine credits from more than one prefix.
ANT-201, 202, 210; ECO-101, 102; GEO-101 or 102, 201;
HIS-101, 102, 201, 202, 210, 215, 220; PSC-103, 110, 115, 210, 215, 225; PSY-101, 104, 105, 106, 202, 210; SOC-101, 102, 204, 210, 215; SSC-101 9

Additional Degree Requirement-4 credits

$$
\text { CHM-131 Chemistry (University-Oriented) I } 4
$$

Area of Concentration/Major Field—14 credits
CHM-132 Chemistry (University-Oriented) II 4
CHM-203 Organic Chemistry I 5
CHM-204 Organic Chemistry II 5
Electives-4-17 credits
MTH-151 Calculus II/Analytic Geometry 5
PHY-204 Heat, Electricity and Magnetism 4
PHY-205 Waves and Modern Physics ${ }^{3}$ 4
Students should consult the catalog of the intended transfer school to choose the most appropriate courses for this major.

[^3]The program(s) of study listed below is a model for students who are undecided about a transfer institution and uncertain about specific course requirements. This model transfer major is structured as a recommendation from the Illinois Community College Board for the Illinois Articulation Initiative Baccalaureate Major (I.A.I. Major).
Students who already know their intended transfer institution should refer to that school's catalog. In any case, students are strongly encouraged to work with a Moraine Valley academic advisor for specific course selection advice and transfer planning support.

## Computer Science (Information Technology Emphasis) Associate in Science Degree 62 Credit Hours IAI Recommended Curriculum

Computer science majors encompass either a business and information systems emphasis or technical emphasis. The information systems emphasis focuses on the use of computer technology and information management methods to solve business problems. This requires a knowledge of both computer applications and the basics of business. These course recommendations are intended for students who are undecided about a transfer school. Students who have selected a transfer school should consult the catalog of that school and an academic advisor for requirements appropriate to the first two years of study. College catalogs and transfer guides for many four-year colleges are available in the Academic Advising Center.
Required General Education Core Curriculum-39/40 credits as follows:
Communication-9 credits
COM-101 Composition I 3
COM-102 Composition II 3
COM-103 Speech Fundamentals 3
Mathematics ${ }^{1}-4 / 5$ credits
Choose one course from MTH-143, 145, 150
$4 / 5$
Physical and Life Sciences-8 credits
Choose four credits from BIO-111, 112, 115, 119, 180;
NAT-111, 112
Choose four credits from CHM-111, 131; EAS-120, 125, 130;
GEL-150, PHS-101, 103; PHY-106 \& 107, 110 \& 111, 150, 2034
(Choosing PHY-203 keeps the computer science technical emphasis option available.)

Each of the Physical and Life Science courses shown above has a one-hour laboratory component included within the course structure and contact hours, with the exception of PHY-106/PHY-107 and PHY-110/PHY-111.

[^4]Additional Degree Requirement- 3 credits
CSC-140 Introduction to Computer Science
Area of Concentration/Major Field- 3 credits
CSC-240 Advanced Computer Science 3
Electives-19/20 credits
Discrete Math is recommended.
Students should check the catalog of their transfer school to receive additional guidance on courses to select.
${ }^{1}$ Math requirements vary at four-year institutions.
${ }^{2}$ Foreign Language Requirement: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire foreign language sequence at one institution.

The program(s) of study listed below is a model for students who are undecided about a transfer institution and uncertain about specific course requirements. This model transfer major is structured as a recommendation from the Illinois Community College Board for the Illinois Articulation Initiative Baccalaureate Major (I.A.I. Major).

Students who already know their intended transfer institution should refer to that school's catalog. In any case, students are strongly encouraged to work with a Moraine Valley academic advisor for specific course selection advice and transfer planning support.

## Computer Science (Technical Emphasis)

## Associate in Science Degree <br> 62 Credit Hours

Computer science majors encompass either a business and information systems emphasis or technical emphasis. The technical emphasis focuses on algorithms, theoretical foundations of computer science and development of software. A strong foundation in mathematics and science is needed for this emphasis. These course recommendations are intended for students who are undecided about a transfer school. Students who have selected a transfer school should consult the catalog of that school and an academic advisor for requirements appropriate to the first two years of study. College catalogs and transfer guides for many four-year colleges are available in the Academic Advising Center.

Required General Education Core Curriculum-40 credits as follows:
Communication-9 credits

| COM-101 | Composition I | 3 |
| :--- | :--- | :--- |
| COM-102 | Composition II | 3 |
| COM-103 | Speech Fundamentals | 3 |

COM-103 Speech Fundamentals 3
Mathematics- 5 credits
MTH-150 Calculus I/Analytic Geometry 5
Physical and Life Sciences-8 credits
PHY-203 Mechanics 4
Choose four credits from BIO-111, 112, 115, 119, 180; NAT-111, 1124

Each of the Physical and Life Science courses shown above has a one-hour laboratory component included within the course structure and contact hours, with the exception of PHY-106/PHY-107 and PHY-110/PHY-111.

[^5]Additional Degree Requirement-3 credits

> CSC-140 Introduction to Computer Science

3
Area of Concentration/Major Field-3 credits
CSC-240 Advanced Computer Science
3
Electives-16 credits
Discrete Math is recommended.

* Foreign Language Requirement: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire foreign language sequence at one institution.
Students should complete the entire sequences in calculus and physics at the same school before transferring since topics are covered in different orders by different schools.

[^6]The program(s) of study listed below is a model for students who are undecided about a transfer institution and uncertain about specific course requirements. This model transfer major is structured as a recommendation from the Illinois Community College Board for the Illinois Articulation Initiative Baccalaureate Major (I.A.I. Major).
Students who already know their intended transfer institution should refer to that school's catalog. In any case, students are strongly encouraged to work with a Moraine Valley academic advisor for specific course selection advice and transfer planning support.

## Criminal Justice

## Associate in Arts Degree

## 62 Credit Hours

The criminal justice curriculum is designed for students pursuing baccalaureate degrees in the fields of corrections, criminal justice, law enforcement, and security management. Students interested in criminal justice as a four-year major are encouraged to complete the Associate in Arts (A.A.) degree prior to transfer. These course recommendations are intended for students who are undecided about a transfer school. Students who have selected a transfer school should consult the catalog of that school and an academic advisor for requirements appropriate to the first two years of study. College catalogs and transfer guides for many four-year colleges are available in the Academic Advising Center.

Required General Education Core Curriculum-38 credits as follows:
Communication-9 credits
COM-101 Composition I 3
COM-102 Composition II 3
COM-103 Speech Fundamentals 3
Mathematics ${ }^{1}$-select 3 credits from:
MTH-120, 139, 143, 145, 150, 151, 152, 212
3
Physical and Life Sciences-8 credits
Choose four credits from BIO-111, 112, 115, 119, 180;
NAT-111, 112
Choose four credits from CHM-111, 131; EAS-120, 125, 130;
GEL-150;PHS-101, 103; PHY-106 \& 107, 110 \& 111, 150, 2034
Each of the Physical and Life Science courses shown above has a one-hour laboratory component included within the course structure and contact hours, with the exception of PHY-106/PHY-107 and PHY-110/PHY-111.
Humanities and Fine Arts ${ }^{2}-9$ credits
Choose three credits from ARB-202; FRE-202; GER-202; HUM-101,
102, 115, 120, 135 or 140 or 145; LIT-213, 214, 215 or 216,217 , 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 230;
JPN-202; PHI-101, 110 or 111, 120, 125; SPA-202, 213
Choose three credits from ART-110, 205, 206 or 208, 209;
HUM-101, 102, 120, 135 or 140 or 145; MUS-106, 107;
THE-105, 107, 110, 111
Choose an additional three credits from any of the courses above.
Social and Behavioral Sciences-9 credits
PSY-101 Introduction to Psychology 3
SOC-101 General Sociology 3
Select three additional credits from
ANT-201, 202, 210; ECO-101, 102; GEO-101 or 102, 201;
HIS-101, 102, 201, 202, 210, 215, 220; PSC-103, 110,
115, 210, 215, 225; PSY-104, 105, 106, 202, 210; SOC-102, 204, 210, 215; SSC-101

Additional Degree Requirement-3 credits
Select three credits from Humanities and Fine Arts
or Social and Behavorial Sciences or
ARB-101, 102, 201; FRE-101, 102, 201; GER-101, 102, 201; JPN-101, 102, 201; SPA-101, 102, 201

Area of Concentration/Major Field-12 credits
CRJ-101 Introduction to Criminal Justice 3
CRJ-105 Criminology 3
CRJ-106 Introduction to Corrections 3
CRJ-107 Juvenile Delinquency and Procedures 3
These courses will be accepted in transfer by participating schools, but they may only transfer as electives within the major. Consult the catalog of your transfer school and an academic advisor for requirements appropriate to the first two years of study.

## Electives-9 credits

Students should consult the catalog of the intended transfer school to choose the most appropriate courses for this major.
${ }^{1}$ Math requirements vary at four-year institutions.
${ }^{2}$ Foreign Language Requirement: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire foreign language sequence at one institution.

The program(s) of study listed below is a model for students who are undecided about a transfer institution and uncertain about specific course requirements.
Students who already know their intended transfer institution should refer to that school's catalog. In any case, students are strongly encouraged to work with a Moraine Valley academic advisor for specific course selection advice and transfer planning support.

## Early Childhood Education

## Associate in Arts Degree <br> 62 Credit Hours

To teach young children (birth to age 8) in Illinois public schools, teachers must be certified by the State of Illinois upon completion of their baccalaureate degree program. Students interested in early childhood education are encouraged to complete the Associate in Arts (A.A.) degree prior to transfer. These course recommendations are intended for students who are undecided about a transfer school. Students who have selected a transfer school should consult the catalog of that school and an academic advisor. College catalogs and transfer guides for many four-year colleges are available in the Academic Advising Center. Students should also be aware that admission to the junior year of Early Childhood Education is competitive and that completion of the recommended courses does not guarantee admission. A minimum grade point average determined by the transfer institution and passage of a basic skills test are required for program admission.

Required General Education Core Curriculum-38 credits as follows:
Communication-9 credits
COM-101 Composition I 3
COM-102 Composition II 3
COM-103 Speech Fundamentals 3
Mathematics ${ }^{1}$-select 3 credits from:
MTH-120, 121+122*, 139, 143, 145, 150, 151, 152, 212
*Recommended
Physical and Life Sciences-8 credits
Choose four credits from BIO-111, 112, 115, 119, 180;
NAT-111, 112
Choose four credits from CHM-111, 131; EAS-120, 125, 130;
GEL-150; PHS-101, 103; PHY-106 \& 107, 110 \& 111, 150, 2034
Each of the Physical and Life Science courses shown above has a one-hour laboratory component included within the course structure and contact hours, with the exception of PHY-106/PHY-107 and PHY-110/PHY-111.
Humanities and Fine Arts²-9 credits
Choose three credits from ARB-202; FRE-202; GER-202; HUM-101, $102,115,120,135$ or 140 or 145; JPN-202; LIT-213, 214, 215 or 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227,
230; PHI-101, 111, 120, 125; SPA-202, 213
Choose three credits from ART-110, 205, 206 or 208, 209;
HUM-101, 102, 120, 135 or 140 or 145; MUS-106, 107;
THE-105, 107, 110, 111
Choose an additional three credits from any of the courses above.
Recommended that students choose a Non-Western or Third World Cultures course.

Social and Behavioral Sciences-9 credits
HIS-201 American History I
or
HIS-202 American History II 3
PSC-110 American National Government 3
Select an additional three credits from
ANT-201, 202, 210; ECO-101, 102; GEO-101 or 102,
201; HIS-201, 202, 210, 215, 220; PSC-103, 115, 210,
215, 225; PSY-101, 104, 105,106, 202, 210; SOC-101,
102, 204, 210, 215; SSC-101
Additional Degree Requirement-3 credits
PSY-105 Child Psychology 3
Area of Concentration/Major Field-6-16 credits
CCA-101 Introduction to Early Childhood Education 3
EDU-111 Students with Disabilities in School 3
These courses will be accepted in transfer by participating schools, but they may only transfer as electives within the major.

Teachers must choose an area of concentration, 18 hours of coursework in one discipline. Nine of those hours should be taken at the community college level with the other nine hours taken at the transfer school. Students should consult the catalog of the intended transfer school to determine acceptable areas of concentration.
Electives-5-14 credits
Select any additional courses to fulfill teacher certification requirements. Students should check the catalog for their transfer school to receive additional guidance on courses to select.

[^7]The program(s) of study listed below is a model for students who are undecided about a transfer institution and uncertain about specific course requirements.
Students who already know their intended transfer institution should refer to that school's catalog. In any case, students are strongly encouraged to work with a Moraine Valley academic advisor for specific course selection advice and transfer planning support.

## Elementary Education

## Associate in Arts Degree

## 62 Credit Hours

To teach young children (grades K-9) in Illinois public schools, teachers must be certified by the State of Illinois upon completion of a four-year degree. Students interested in elementary education are encouraged to complete the Associate in Arts (A.A.) degree prior to transfer. These course recommendations are intended for students who are undecided about a transfer school. Students who have selected a transfer school should consult the catalog of that school and an academic advisor. College catalogs and transfer guides for many four-year colleges are available in the Academic Advising Center. Students should be aware that admission to the junior year of elementary education is competitive and that each four-year college has specific admissions requirements including a minimum grade point average and a test of basic skills.
Required General Education Core Curriculum-38 credits as follows:
Communication-9 credits
COM-101 Composition I 3
COM-102 Composition II 3
COM-103 Speech Fundamentals 3
Mathematics'—select 3 credits from
MTH-120, 121+122*, 139, 143, 145, 150, 151, 152, 212
*Recommended
Physical and Life Sciences-8 credits
Choose four credits from BIO-111*, 112, 115, 119, 180;
NAT-111, 112
Choose four credits from CHM-111, 131*; EAS-120, 125, 130;
GEL-150; PHS-101*, 103; PHY-106 \& 107, 110 \& 111, 150, 2034
*Recommended
Each of the Physical and Life Science courses shown above has a one-hour laboratory component included within the course structure and contact hours, with the exception of PHY-106/PHY-107 and PHY-110/PHY-111.
Humanities and Fine Arts²-9 credits
Choose three credits from ART-110, 205, 206 or 208, 209;
HUM-101, 102, 120, 135 or 140 or 145; MUS-106, 107;
THE-105, 107, 110
3
Choose three credits from LIT-213, 214, 215 or 216 ,
217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 230
Choose three credits from ARB-202; ART-110, 205, 206 or 208,
209; FRE-202; GER-202; HUM-101, 102, 115, 120, 135 or 140 or
145; JPN-202; LIT-213, 214, 215 or 216, 217, 218, 219, 220,
221, 222, 223, 224, 225, 227, 230; MUS-106, 107; PHI 101, 111, 120, 125; SPA-202, 213; THE-105, 107, 110, 111
Recommended that students choose a Non-Western or Third World Cultures course and a literature course.
$\begin{array}{cll}\text { Social and Behavioral Sciences-9 credits } \\ \text { HIS-201 } & \text { American History I } & \\ \text { or } & & \\ \text { HIS-202 } & \text { American History II } & 3 \\ \text { PSC-110 } & \text { American National Government } & 3 \\ \text { PSY-101 } & \text { Introduction to Psychology } & 3\end{array}$

Additional Degree Requirement-3 credits

| $\begin{gathered} \text { PSY-104 } \\ \text { or } \end{gathered}$ | Life-Span Developmental Psychology | 3 |
| :---: | :---: | :---: |
| PSY-105 | Child Psychology | 3 |
| rea of Concentration/Major Field-6-15 credits |  |  |
| EDU-100 | Introduction to Education | 3 |
| EDU-111 | Students with Disabilities in School | 3 |

Teachers must choose an area of concentration, 18 hours of coursework in one discipline. Nine of those hours should be taken at the community college level with the other nine hours taken at the transfer school. Students should consult the catalog of the intended transfer school to determine acceptable areas of concentration.

Electives-6-15 credits
Select any additional courses to fulfill teacher certification requirements. Students should check the catalog for their transfer school to receive additional guidance on courses to select.
${ }^{1}$ MTH-122 recommended; however, math requirements vary at four-year institutions.
${ }^{2}$ Foreign Language Requirement: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire foreign language sequence at one institution.

The program(s) of study listed below is a model for students who are undecided about a transfer institution and uncertain about specific course requirements. This model transfer major is structured as a recommendation from the Illinois Community College Board for the Illinois Articulation Initiative Baccalaureate Major (I.A.I. Major).

Students who already know their intended transfer institution should refer to that school's catalog. In any case, students are strongly encouraged to work with a Moraine Valley academic advisor for specific course selection advice and transfer planning support.

## Engineering

## Associate in Science Degree <br> 62 Credit Hours

The engineer is concerned with the application of scientific principles to practical problems. There is a wide variety of specialties, but not all types are offered at all baccalaureate schools. A typical four-year curriculum provides a background of chemistry, mathematics and physics during the first two years, with the specialty courses occurring primarily in the last two years. These course recommendations are intended for students who are undecided about a transfer school. Students who have selected a transfer school should consult the catalog of that school and an academic advisor for requirements appropriate to the first two years of study. College catalogs and transfer guides for many four-year colleges are available in the Academic Advising Center.

Required General Education Core Curriculum-40 credits as follows:
Communication-9 credits

| COM-101 | Composition I |
| :--- | :--- |
| COM-102 | Composition II |
| COM-103 | Speech Fundamentals |

3
COM-102 Composition II 3
COM-103 Speech Fundamentals 3
Mathematics-5 credits
MTH-150 Calculus I/Analytic Geometry
5
Physical and Life Sciences-8 credits
CHM-131 Chemistry (University-Oriented) I
Choose four credits from BIO-111, 112, 115, 119, 180;
NAT-111, 112
Each of the Physical and Life Science courses shown above has a one-hour laboratory component included within the course structure and contact hours, with the exception of PHY-106/PHY-107 and PHY-110/PHY-111.

Humanities and Fine Arts*-9 credits
Choose three credits from ARB-202; FRE-202; GER-202; HUM-101,
102, 115, 120, 135 or 140 or 145; JPN-202; LIT-213, 214, 215 or 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227,
230; PHI-101, 111, 120, 135 or 140 or 145, 125; SPA-202, 2133
Choose three credits from ART-110, 205, 206 or 208, 209;
HUM-101, 102, 120, 135 or 140 or 145; MUS-106, 107;
THE-105, 107, 110, 111
Choose an additional three credits from any of the courses above.
If two courses are selected in one discipline a two-semester sequence is recommended.
Social and Behavioral Sciences-9 credits

| ECO-101 | Principles of Macroeconomics | 3 |
| :--- | :--- | :--- |
| ECO-102 | Principles of Microeconomics | 3 |

Select three additional credits from
ANT-201, 202, 210; GEO-101 or 102, 201;
HIS-101, 102, 201, 202, 210, 215, 220;
PSC-103, 110, 115, 210, 215, 225; PSY-101, 104, 105,
106, 202, 210; SOC-101, 102, 204, 210, 215; SSC-101

Additional Degree Requirement-5 credits

$$
\text { MTH-151 Calculus II/Analytic Geometry } 5
$$

Area of Concentration/Major Field—15 credits
MTH-152 Calculus III/Analytic Geometry 4
MTH-201 Differential Equations 3
PHY-203 Mechanics 4
PHY-204 Heat, Electricity and Magnetism 4

## Electives

This program does not require any further electives; however, the following additional courses are recommended for each engineering specialty area. Students should complete entire course sequences at the same school. Students should consult the intended transfer school and an academic advisor.
Aeronautical, Civil, General, Manufacturing, Mechanical,
and Engineering Mechanics
EGN-150 Engineering Graphics 3
EGN-201 Engineering Statics 3
EGN-202 Engineering Dynamics 3
$\begin{array}{lll}\text { Chemical Engineering } \\ \text { CHM-132 Chemistry (University Oriented) II } & 5\end{array}$
CHM-203 Organic Chemistry I 5
CHM-204 Organic Chemistry II 5
Computer Engineering
CSC-140 Introduction to Computer Science
CSC-240 Advanced Computer Science 3
Industrial Engineering
EGN-201 Engineering Statics 3
EGN-202 Engineering Dynamics 3
Electrical Engineering
CSC-140 Introduction to Computer Science
3

* Foreign Language Requirement: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire foreign language sequence at one institution.

A pre- or corequisite may be required for some courses.

The program(s) of study listed below is a model for students who are undecided about a transfer institution and uncertain about specific course requirements. This model transfer major is structured as a recommendation from the Illinois Community College Board for the Illinois Articulation Initiative Baccalaureate Major (I.A.I. Major).

Students who already know their intended transfer institution should refer to that school's catalog. In any case, students are strongly encouraged to work with a Moraine Valley academic advisor for specific course selection advice and transfer planning support.

## English

## Associate in Arts Degree <br> 62 Credit Hours

Baccalaureate degrees in English generally emphasize the study of literature and literary criticism. Some four-year colleges also offer specializations in creative or technical writing and/or programs to prepare students for certification as a high school English teacher. Students interested in English as a transfer major are encouraged to complete the Associate in Arts (AA) degree prior to transfer. Students should be aware that admission to the junior year in English may be competitive. These course recommendations are intended for students who are undecided about a transfer school. Students who have selected a transfer school should consult the catalog of that school and an academic advisor for requirements appropriate to the first two years of study. College catalogs and transfer guides for many four-year colleges are available in the Academic Advising Center.

Required General Education Core Curriculum-38 credits as follows:

| Communications-9 | credits |  |
| :---: | :--- | :--- |
| COM-101 | Composition I | 3 |
| COM-102 | Composition II | 3 |
| COM-103 | Speech Fundamentals | 3 |

Mathematics ${ }^{1}-3$ credits
Select three hours from MTH-120, 139, 143,
145, 150, 151, 152, 212
Physical and Life Sciences-8 credits
Choose four credits from BIO-111, 112, 115,
119, 180; NAT-111, 112
Choose four credits from CHM-111, 131; EAS-120, 125, 130;
GEL-150; PHS-101, 103; PHY-106 \& 107, 110 \& 111, 150, 2034
Each of the Physical and Life Science courses shown above has a one-hour laboratory component included within the course structure and contact hours, with the exception of PHY-106/PHY-107 and PHY-110/PHY-111.

Humanities and Fine Arts ${ }^{2}-9$ credits
Choose three credits from ARB-202; FRE-202; GER-202; HUM-101,
102, 115, 120, 135 or 140 or 145; JPN-202; LIT-213, 214, 215 or
216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227,
230; PHI-101, 111, 120, 125; SPA-202, 213
Choose three credits from ART-110, 205, 206 or 208, 209;
HUM-101, 102, 120, 135 or 140 or 145; MUS-106, 107;
THE-105, 107, 110, 111
Choose an additional three credits from any of the courses above.
Social and Behavioral Sciences-9 credits
Select nine credits from more than one prefix.
ANT-201, 202, 210; ECO-101, 102; GEO-101 or 102, 201;
HIS-101, 102, 201, 202, 210, 215, 220; PSC-103, 110, 115, 210, 215, 225; PSY-101, 104, 105, 106, 202, 210; SOC-101, 102, 204, 210, 215; SSC-101

Additional Degree Requirement-3 credits

$$
\text { LIT-213 American Literature I } 3
$$

Area of Concentration/Major Field-6 credits
LIT-221 English Literature I 3
LIT-222 English Literature II 3
Electives-3 credits
Students should consult the catalog of the intended transfer school to choose the most appropriate courses for this major. See Foreign Language Requirement below. Electives may also include the following:

LIT-214 American Literature II
${ }^{1}$ Math requirements vary at four-year institutions.
${ }^{2}$ Foreign Language Requirement: For an English major, many universities require competency in a single foreign language through the third or fourth college semester. Two years in high school may substitute for the first two college semesters. See the college catalog for the intended transfer institution for specific details.

The program(s) of study listed below is a model for students who are undecided about a transfer institution and uncertain about specific course requirements. This model transfer major is structured as a recommendation from the Illinois Community College Board for the Illinois Articulation Initiative Baccalaureate Major (I.A.I. Major).

Students who already know their intended transfer institution should refer to that school's catalog. In any case, students are strongly encouraged to work with a Moraine Valley academic advisor for specific course selection advice and transfer planning support.

## History

## Associate in Arts Degree <br> 62 Credit Hours

Although history majors generally earn a Bachelor of Arts degree, they may also have a choice of earning a Bachelor of Science degree depending on the four-year university they attend. A history major may also pursue a program leading to state certification as a high school (6-12) history teacher. Students should complete an associate degree prior to transfer and should be aware that it may be necessary to take additional credit hours depending on the requirements of the intended transfer institution. These course recommendations are intended for students who are undecided about a transfer school. Students who have selected a transfer school should consult the catalog of that school and an academic advisor for requirements appropriate to the first two years of study. College catalogs and transfer guides for many four-year colleges are available in the Academic Advising Center.

Required General Education Core Curriculum-38 credits as follows:
Communications-9 credits
$\begin{array}{lll}\text { COM-101 } & \text { Composition I } & 3 \\ \text { COM-102 } & \text { Composition II } & 3\end{array}$
COM-103 Speech Fundamentals 3
Mathematics $1-3$ credits
Select three hours from MTH-120, 139, 143,
$145,150,151,152,212$
Physical and Life Sciences-8 credits
Choose four credits from BIO-111, 112, 115,
119, 180; NAT-111, 112
4
Choose four credits from CHM-111, 131; EAS-120, 125, 130;
GEL-150; PHS-101, 103; PHY-106 \& 107, 110 \& 111, 150, 2034
Each of the Physical and Life Science courses shown above has a one-hour laboratory component included within the course structure and contact hours, with the exception of PHY-106/PHY-107 and PHY-110/PHY-111.
Humanities and Fine Arts²-9 credits
Choose three credits from ARB-202; FRE-202; GER-202; HUM-101,
102, 115, 120, 135 or 140 or 145; JPN-202; LIT-213, 214, 215 or
216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 230; PHI-101, 111, 120, 125; SPA-202, 213
Choose three credits from ART-110, 205, 206 or 208, 209;
HUM-101, 102, 120, 135 or 140 or 145; MUS-106, 107;
THE-105, 107, 110, 111
Choose an additional three credits from any of the courses above.
Social and Behavioral Sciences-9 credits
Select nine credits from more than one prefix.
ANT-201, 202, 210; ECO-101, 102; GEO-101 or 102,
201; HIS-101, 102, 210, 215, 220; PSC-103, 110, 115, 210, 215, 225; PSY-101, 104, 105, 106, 202, 210; SOC-101, 102, 204, 210, 215; SSC-101

Additional Degree Requirement-3 credits

> HIS-201 American History I

Area of Concentration/Major Field-3 credits
HIS-202 American History II
3
Electives-18 credits
Students should consult the catalog of the intended transfer school to choose the most appropriate courses for this major.
${ }^{1}$ Math requirements vary at four-year institutions.
${ }^{2}$ Foreign Language Requirement: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire foreign language sequence at one institution.

[^8]The program(s) of study listed below is a model for students who are undecided about a transfer institution and uncertain about specific course requirements. This model transfer major is structured as a recommendation from the Illinois Community College Board for the Illinois Articulation Initiative Baccalaureate Major (I.A.I. Major).

Students who already know their intended transfer institution should refer to that school's catalog. In any case, students are strongly encouraged to work with a Moraine Valley academic advisor for specific course selection advice and transfer planning support.

## Industrial Technology

## Associate in Science Degree

## 62 Credit Hours

Manufacturing technology is a combination of technical (math/science) education with hands-on skills. It is a field of study that specializes in the application of manufacturing concepts, principles and processes to plan, design and manage machines and people. The courses below are for students planning to transfer into a baccalaureate manufacturing technology/machining program. Students interested in manufacturing technology as a transfer major are encouraged to complete the Associate in Science (A.S.) degree prior to transfer. These course recommendations are intended for students who are undecided about a transfer school. Students who have selected a transfer school should consult the catalog of that school and an academic advisor for requirements appropriate to the first two years of study. College catalogs and transfer guides for many four-year colleges are available in the Academic Advising Center.

Required General Education Core Curriculum-39 credits as follows:
Communications-9 credits
$\begin{array}{lll}\text { COM-101 } & \text { Composition I } & 3 \\ \text { COM-102 } & \text { Composition II } & 3\end{array}$
COM-103 Speech Fundamentals 3
Mathematics ${ }^{1}-4$ credits
MTH-139 Probability and Statistics
4
Physical and Life Sciences-8 credits
Choose four credits from BIO-111, 112, 115,
119, 180; NAT-111, 112
Choose four credits from PHY-106 \& 107 or
$110 \& 111$ or 150 or CHM-111 or 131
Each of the Physical and Life Science courses shown above has a one-hour laboratory component included within the course structure and contact hours, with the exception of PHY-106/PHY-107 and PHY-110/PHY-111.

Humanities and Fine Arts²-9 credits
Choose three credits from ARB-202; FRE-202; GER-202; HUM-101,
102, 115, 120, 135 or 140 or 145; JPN-202; LIT-213, 214, 215
or $216,217,218,219,220,221,222,223,224,225,226$,
227, 230; PHI-101, 111, 120, 125; SPA-202, 213
Choose three credits from ART-110, 205, 206 or 208, 209;
HUM-101, 102, 120, 135 or 140 or 145; MUS-106, 107;
THE-105, 107, 110, 111
Choose an additional three credits from any of the courses above.
Social and Behavioral Sciences-9 credits
Select nine credits from more than one prefix.
ANT-201, 202, 210; ECO-101, 102; GEO-101 or 102,
201; HIS-101, 102, 201, 202, 210, 215, 220;
PSC-103, 110, 115, 210, 215, 225; PSY-101, 104, 105,
106, 202, 210; SOC-101, 102, 204, 210, 215; SSC-101

## Additional Degree Requirement-3 credits

Select 3 credits from Mathematics or Physical and Life Sciences or MTH141,142; Computer Sciences CSC-140, 206, 240; Information Management IMS-101, 115.
Area of Concentration/Major Field-3 credits EGN-150 Engineering Graphics

Electives-20 credits
Students should consult the catalog of the intended transfer school to choose additional courses most appropriate for this major.
${ }^{1}$ Math requirements vary at four-year institutions.
${ }^{2}$ Foreign Language Competency: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire foreign language sequence at one institution.

NOTE: In addition to the Associate in Science (A.S.) degree, students may choose to transfer to a baccalaureate manufacturing technology program after completion of an Associate in Applied Science (A.A.S.) degree. Students who have completed an A.A.S. may need to complete additional general education and prerequisite courses. Students should contact an academic advisor and their intended transfer institution for more information.

The program(s) of study listed below is a model for students who are undecided about a transfer institution and uncertain about specific course requirements. This model transfer major is structured as a recommendation from the Illinois Community College Board for the Illinois Articulation Initiative Baccalaureate Major (I.A.I. Major).

Students who already know their intended transfer institution should refer to that school's catalog. In any case, students are strongly encouraged to work with a Moraine Valley academic advisor for specific course selection advice and transfer planning support.

## Mass Communication

## Associate in Arts Degree

## 62 Credit Hours

Mass communication encompasses four major program areas: radio/TV/film, advertising/public relations, journalism/news editorial/photojournalism, and multimedia. Students interested in mass communication as a four-year major are encouraged to complete the Associate in Arts (A.A.) degree prior to transfer. These course recommendations are intended for students who are undecided about a transfer school. Students who have selected a transfer school should consult the catalog of that school and an academic advisor for requirements appropriate to the first two years of study. College catalogs and transfer guides for many four-year colleges are available in the Academic Advising Center.

Required General Education Core Curriculum-38 credits as follows:
Communication-9 credits

| COM-101 | Composition I | 3 |
| :--- | :--- | :--- |
| COM-102 | Composition II | 3 |
| COM-103 | Speech Fundamentals | 3 |

COM-103 Speech Fundamentals 3
Mathematics ${ }^{1}$-select 3 credits from:
MTH-120, 139, 143, 145, 150, 151, 152, 212
Physical and Life Sciences-8 credits
Choose four credits from BIO-111, 112, 115, 119, 180;
NAT-111, 112
Choose four credits from CHM-111, 131; EAS-120, 125, 130;
GEL-150; PHS-101, 103; PHY-106 \& 107, 110 \& 111, 150, 2034
Each of the Physical and Life Science courses shown above has a one-hour laboratory component included within the course structure and contact hours, with the exception of PHY-106/PHY-107 and PHY-110/PHY-111.

Humanities and Fine Arts²-9 credits
Choose three credits from ARB-202; FRE-202; GER-202; HUM-101, $102,115,120,135$ or 140 or 145; JPN-202; LIT-213,
214, 215 or $216,217,218,219,220,221,222,223,224$,
225, 226, 227, 230; PHI-101, 111, 120, 125; SPA-202, 213
Choose three credits from ART-110, 205, 206 or 208, 209;
HUM-101, 102, 120, 135 or 140 or 145; MUS-106, 107;
THE-105, 107, 110, 111
Choose an additional three credits from any of the courses above.
(THE-107 recommended for radio/TV/film majors)
Social and Behavioral Sciences-9 credits
Select nine credits from more than one prefix.
ANT-201, 202, 210; ECO-101, 102; GEO-101 or 102,
201; HIS-101, 102, 201, 202, 210, 215, 220;
PSC-103, 110, 115, 210, 215, 225; PSY-101, 104, 105,
106, 202, 210; SOC-101, 102, 204, 210, 215; SSC-101

Additional Degree Requirement-3 credits
Select three credits from Humanities and Fine Arts
or Social and Behavorial Sciences or
ARB-101, 102; FRE-101, 102, 201; GER-101, 102, 201;
JPN-101, 102, 201; SPA-101, 102, 201
Area of Concentration/Major Field-3-9 credits
The following courses are recommended for each specialty:

## Radio/TV/Film

JRN-101 Introduction to Mass Communication 3
THE-107 Film Appreciation 3
THE-111 History of Film 3
Advertising/Public Relations
JRN-111 Newswriting I 3
Journalism/News Editorial/Photjournalism
JRN-101 Introduction to Mass Communication 3
JRN-111 Newswriting I 3
Multimedia
JRN-101 Introduction to Mass Communication 3

Electives-10-18 credits
Students should consult the catalog of the intended transfer school to choose the most appropriate courses for this major.
${ }^{1}$ Math requirements vary at four-year institutions.
${ }^{2}$ Foreign Language Requirement: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire foreign language sequence at one institution.

[^9]The program(s) of study listed below is a model for students who are undecided about a transfer institution and uncertain about specific course requirements. This model transfer major is structured as a recommendation from the Illinois Community College Board for the Illinois Articulation Initiative Baccalaureate Major (I.A.I. Major).

Students who already know their intended transfer institution should refer to that school's catalog. In any case, students are strongly encouraged to work with a Moraine Valley academic advisor for specific course selection advice and transfer planning support.

## Mathematics

## Associate in Science Degree

## 62 Credit Hours

Baccalaureate degree programs in mathematics prepare students with diverse career goals by developing rigorous, logical thinking; an appreciation and familiarity with complex structures and algorithms; and the ability to learn technical materials and abstract concepts. Students interested in mathematics as a transfer major are encouraged to complete the Associate in Science (A.S.) degree prior to transfer. Students should be aware that admission to the junior year in mathematics may be competitive. These course recommendations are intended for students who are undecided about a transfer school. Students who have selected a transfer school should consult the catalog of that school and an academic advisor for requirements appropriate to the first two years of study. College catalogs and transfer guides for many four-year colleges are available in the Academic Advising Center.

Required General Education Core Curriculum-40 credits as follows:
Communications-9 credits
$\begin{array}{lll}\text { COM-101 } & \text { Composition I } & 3 \\ \text { COM-102 } & \text { Composition II } & 3\end{array}$
COM-103 Speech Fundamentals 3
Mathematics'— 5 credits
MTH-150 Calculus I/Analytic Geometry 5
Physical and Life Sciences-8 credits
PHY-203 Mechanics
Choose four credits from BIO-111, 112, 115,
119, 180; NAT-111, 112

Additional Degree Requirement-3 credits

| MTH-201 | Differential Equations |
| :--- | :--- |
| or |  |
| MTH-210 | Linear Algebra |

Area of Concentration/Major Field ${ }^{3}-9$ credits
MTH-151 Calculus II/Analytic Geometry 5
MTH-152 Calculus III/Analytic Geometry 4
Electives-10 credits
Students should consult the catalog of the intended transfer school to choose the most appropriate courses for this major. Electives may include:

> CSC-140 Intorduction to Computer Science
${ }^{1}$ Math requirements vary at four-year institutions.
${ }^{2}$ Foreign Language Competency: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire foreign language sequence at one institution.
${ }^{3}$ It is highly recommended that students complete the entire Calculus sequence as a single institution. Course content may vary widely among institutions depending on the credits assigned to each course, and completing the sequence at a single institution is the best way to assure that neither credit nor content is lost in transfer.

Students interested in Secondary Mathematics should refer to the A.A.T. degree in Secondary Mathematics on page 84.

The program(s) of study listed below is a model for students who are undecided about a transfer institution and uncertain about specific course requirements. This model transfer major is structured as a recommendation from the Illinois Community College Board for the Illinois Articulation Initiative Baccalaureate Major (I.A.I. Major).

Students who already know their intended transfer institution should refer to that school's catalog. In any case, students are strongly encouraged to work with a Moraine Valley academic advisor for specific course selection advice and transfer planning support.

## Physics

## Associate in Science Degree <br> 62 Credit Hours

This program provides an in-depth foundation of sequential coursework in science and math. Courses taken during the third and fourth years of the baccalaureate program provide the additional preparation necessary for graduate studies and/or work in industry. Multiple tracks are often available. Students should complete the Associate in Science (A.S.) degree prior to transfer and should be aware that it may be necessary to take additional credit hours depending on the requirements of the intended transfer institution. These course recommendations are intended for students who are undecided about a transfer school. Students who have selected a transfer school should consult the catalog of that school and an academic advisor for requirements appropriate to the first two years of study. College catalogs and transfer guides for many four-year colleges are available in the Academic Advising Center.

Required General Education Core Curriculum-40 credits as follows:
Communications-9 credits
$\begin{array}{lll}\text { COM-101 } & \text { Composition I } & 3 \\ \text { COM-102 } & \text { Composition II } & 3\end{array}$
COM-103 Speech Fundamentals 3
Mathematics'— 5 credits
MTH-150 Calculus I/Analytic Geometry
5
Physical and Life Sciences-8 credits
Choose four credits from BIO-111, 112, 115, 119, 180;
NAT-111, 112
4
CHM-131 Chemistry (University-Oriented I) 4
Each of the Physical and Life Science courses shown above has a one-hour laboratory component included within the course structure and contact hours, with the exception of PHY-106/PHY-107 and PHY-110/PHY-111.

Humanities and Fine Arts ${ }^{2}-9$ credits
Choose three credits from ARB-202; FRE-202; GER-202, HUM-101, 102, 115, 120, 135 or 140 or 145; JPN-202; LIT-213,214, 215 or
216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227,
230; PHI-101, 111, 120, 125; SPA-202, 213
Choose three credits from ART-110, 205, 206 or 208,
209; HUM-101, 102, 120, 135 or 140 or 145; MUS-106, 107;
THE-105, 107, 110, 111
Choose an additional three credits from any of the courses above
Social and Behavioral Sciences-9 credits
Select nine credits from more than one prefix.
ANT-201, 202, 210; ECO-101, 102; GEO-101 or 102, 201;
HIS-101, 102, 201, 202, 210, 215, 220; PSC-103, 110, 115,
210, 215, 225; PSY-101, 104, 105, 106, 202, 210; SOC-101, 102, 204, 210, 215; SSC-101

Additional Degree Requirement-4 credits

# PHY-203 Mechanics <br> Area of Concentration/Major Field-8 credits 

PHY-204 Heat, Electricity and Magnetism 4
PHY-205 Waves and Modern Physics ${ }^{3}$ 4
Electives-10 credits
Students should consult the catalog of the intended transfer school to choose the most appropriate courses for this major.
${ }^{1}$ Math requirements vary at four-year institutions.
${ }^{2}$ Foreign Language Requirement: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire foreign language sequence at one institution.
${ }^{3}$ Some four-year universities require completion of Calculus III and Physics III before students can begin physical chemistry, a third-year course.

[^10]The program(s) of study listed below is a model for students who are undecided about a transfer institution and uncertain about specific course requirements. This model transfer major is structured as a recommendation from the Illinois Community College Board for the Illinois Articulation Initiative Baccalaureate Major (I.A.I. Major).

Students who already know their intended transfer institution should refer to that school's catalog. In any case, students are strongly encouraged to work with a Moraine Valley academic advisor for specific course selection advice and transfer planning support.

## Political Science

## Associate in Arts Degree

## 62 Credit Hours

Political science is the study of the theory and practice of government and politics. Students of politics describe and analyze political systems and behavior. Baccalaureate programs offer courses in areas such as public administration, public law, international relations, comparative politics, political behavior, political philosophy, and U. S. government. Students interested in political science as a transfer major are encouraged to complete the Associate in Arts (A.A.) degree prior to transfer. These course recommendations are intended for students who are undecided about a transfer school. Students who have selected a transfer school should consult the catalog of that school and an academic advisor for requirements appropriate to the first two years of study. College catalogs and transfer guides for many four-year colleges are available in the Academic Advising Center.
Required General Education Core Curriculum-38 credits as follows:
Communications-9 credits
COM-101 Composition I 3
COM-102 Composition II 3
COM-103 Speech Fundamentals 3
Mathematics ${ }^{1}$ - select 3 credits from:
MTH-120, 139, 143, 145, 150, 151, 152, 212
Physical and Life Sciences-8 credits
Choose four credits from BIO-111, 112, 115, 119, 180;
NAT-111, 112
4
Choose four credits from CHM-111, 131; EAS-120, 125, 130;
GEL-150; PHS-101, 103; PHY-106 \& 107, 110 \& 111, 150, 2034
Each of the Physical and Life Science courses shown above has a one-hour laboratory component included within the course structure and contact hours, with the exception of PHY-106/PHY-107 and PHY-110/PHY-111.

Humanities and Fine Arts ${ }^{2}-9$ credits
Choose three credits from ARB-202; FRE-202; GER-202; HUM-101,
102, 115, 120, 135 or 140 or 145; JPN-202; LIT-213, 214, 215 or
216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227,
230; PHI-101, 111, 120, 125; SPA-202, 213
Choose three credits from ART-110, 205, 206 or 208, 209;
HUM-101, 102. 120, 135 or 140 or 145; MUS-106, 107;
THE-105, 107, 110, 111
Choose an additional three credits from any of the courses above.
Social and Behavioral Sciences-9 credits
PSC-210 International Relations 3
Select three credits from ANT-201, 202, 210; ECO-101, 102;
GEO-101 or 102, 210; HIS-101, 102, 201, 202, 210, 215,
220; PSY-101, 104, 105, 106, 202, 210; SOC-101, 102, 204, 210, 215; SSC-101

Additional Degree Requirement-3 credits
PSC-215 Comparative Government
Area of Concentration/Major Field-3 credits
PSC-110 American National Government 3
Electives-18 credits
Students should consult the catalog of the intended transfer school to choose the most appropriate courses for this major.
${ }^{1}$ Math requirements vary at four-year institutions.
${ }^{2}$ Foreign Language Requirement: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire foreign language sequence at one institution

The program(s) of study listed below is a model for students who are undecided about a transfer institution and uncertain about specific course requirements. This model transfer major is structured as a recommendation from the Illinois Community College Board for the Illinois Articulation Initiative Baccalaureate Major (I.A.I. Major).

Students who already know their intended transfer institution should refer to that school's catalog. In any case, students are strongly encouraged to work with a Moraine Valley academic advisor for specific course selection advice and transfer planning support.

## Psychology

## Associate in Arts Degree <br> 62 Credit Hours

Psychology is the scientific study of human and animal behavior, along with the biological and mental processes which underlie behavior. Students planning to major in psychology are encouraged to complete foundational coursework in the sciences and mathematics, along with a core of basic psychology courses. Students interested in psychology as a four-year major are encouraged to complete the Associate in Arts (A.A.) degree prior to transfer. These course recommendations are intended for students who are undecided about a transfer school. Students who have selected a transfer school should consult the catalog of that school and an academic advisor for requirements appropriate to the first two years of study. College catalogs and transfer guides for many four-year colleges are available in the Academic Advising Center.
Required General Education Core Curriculum-39 credits as follows:

## Communication-9 credits

$\begin{array}{lll}\text { COM-101 } & \text { Composition I } & 3 \\ \text { COM-102 } & \text { Composition II } & 3\end{array}$
COM-102 Composition II 3
COM-103 Speech Fundamentals 3
Mathematics'—select 4 credits from MTH-139, 143, 145, 150, 212
Physical and Life Sciences-8 credits
Choose four credits from BIO-111, 112, 115, 119, 180;
NAT-111, 112
Choose four credits from CHM-111, 131;
EAS-120, 125, 130; GEL-150; PHS-101, 103;
PHY-106 \& 107, 110 \& 111, 150, 203
4
Each of the Physical and Life Science courses shown above has a one-hour laboratory component included within the course structure and contact hours, with the exception of PHY-106/PHY-107 and PHY-110/PHY-111.

## Humanities and Fine Arts ${ }^{2}-9$ credits

Choose three credits from ARB-202; FRE-202; GER-202; HUM-101, 102, 115, 120, 135 or 140 or 145; JPN-202; LIT-213, 214, 215 or 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226,
227, 230; PHI-101, 111, 120, 125; SPA-202, 213
Choose three credits from ART-110, 205, 206 or 208, 209;
HUM-101, 102, 120, 135 or 140 or 145; MUS-106,
107; THE-105, 107, 110, 111
Choose an additional three credits from any of the courses above.
Social and Behavioral Sciences-9 credits
PSY-101 Introduction to Psychology
Choose six additional credits, both should be outside the discipline of psychology.
ANT-201, 202, 210; ECO-101, 102; GEO-101 or 102,
201; HIS-101, 102, 201, 202, 210, 215, 220;
PSC-103, 110, 115, 210 215, 225; PSY-104, 105, 106;
SOC-101, 102, 204, 210, 215; SSC-101

Additional Degree Requirement-3 credits

> PSY-104 Life-Span Developmental Psychology

Area of Concentration/Major Field-9 credits
PSY-105 Child Psychology 3
PSY-106 Adolescent Psychology 3
PSY-210 Adult Psychology 3
Electives-12 credits
Students should consult the catalog of the intended transfer school to choose the most appropriate courses for this major. Such courses may include:

PSY-201 Industrial/Organizational Psychology 3
PSY-202 Social Psychology 3
PSY-205 Abnormal Psychology 3
PSY-212 Theories of Personalities 3
${ }^{1}$ Math requirements vary at four-year institutions.
${ }^{2}$ Foreign Language Requirement: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire foreign language sequence at one institution.

[^11]The program(s) of study listed below is a model for students who are undecided about a transfer institution and uncertain about specific course requirements. This model transfer major is structured as a recommendation from the Illinois Community College Board for the Illinois Articulation Initiative Baccalaureate Major (I.A.I. Major).

Students who already know their intended transfer institution should refer to that school's catalog. In any case, students are strongly encouraged to work with a Moraine Valley academic advisor for specific course selection advice and transfer planning support.

## Secondary Mathematics

## Associate in Arts in Teaching Degree 62 credit hours

Meets IAI General Education Core Curriculum

## Curriculum Code 1480

This program prepares students for careers in the high-need teaching discipline of secondary education mathematics. This program is meant to facilitate the transfer of community college students desiring to become high school mathematics teachers into upper-division teacher education programs at four-year universities. Students obtaining an A.A.T. in Secondary Mathematics degree should have equal status with university native students at the beginning of the junior year. Students should be aware that admission to teacher education programs is competitive and generally includes a minimum grade point average determined by the transfer institution. Students should declare the A.A.T. major and consult with an academic advisor as soon as possible in their enrollment. Students should also consult the college catalog and transfer guides for their intended transfer institution for any additional requirements.

## Required General Education Core Curriculum-40 credits as follows:

Communications-9 credits

| COM-101 | Composition I |
| :--- | :--- |
| COM-102 | Composition II |
| COM-103 | Speech Fundamentals |

$\begin{array}{ll}\text { COM-102 } & \text { Composition II } \\ \text { COM-103 } & \text { Speech Fundamentals }\end{array}$
Mathematics-5 credits
MTH-150 Calculus I/Analytic Geometry
Physical and Life Sciences-8 credits
Choose four credits from BIO-111, 112, 115, 119, 180;
NAT-111, 112
Choose four credits from CHM-111, 131; EAS-120, 125, 130;
GEL-150; PHS-101, 103; PHY-106 \& 107, 110 \& 111, 150, 2034
Each of the Physical and Life Science courses shown above has a one-hour laboratory component included within the course structure and contact hours, with the exception of PHY-106/PHY-107 and PHY-110/PHY-111.
Humanities and Fine Arts ${ }^{1}-9$ credits
Choose three credits from ARB-202; FRE-202, GER-202: HUM-101,
$102,115,120,135$ or 140 or 145; JPN-202; LIT-213,214, 215 or
216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227,
230; PHI-101, 111, 120, 125; SPA-202, 213
Choose three credits from ART-110, 205, 206 or 208, 209;
HUM-101, 102, 120, 135 or 140 or 145; MUS-106, 107;
THE-105, 107, 110, 111
Choose an additional three credits from any of the courses above
Recommended that students choose a Non-Western or Third World Cultures course and a Literature course depending upon transfer institution.
Social and Behavioral Sciences-9 credits
Select nine credits from more than one prefix.
ANT-201, 202, 210; ECO-101, 102; GEO-101 or 102, 201;
HIS-101, 102, 201, 202, 210, 215, 220; PSC-103, 110, 115,
210, 215, 225; PSY-101, 104, 105, 106, 202, 210; SOC-101,
102, 204, 201, 210, 215; SSC-101

Recommended that students choose HIS-201 or HIS-202, PSC-110 and PSY-105 depending upon transfer institution.
Professional Education-6 credits
EDU-100 Introduction to Education 3
Choose three credits from EDU-110, EDU-111, PSY-215
Mathematics Major-9 credits
MTH-151 Calculus II/Analytic Geometry 5
MTH-152 Calculus III/Analytic Geometry 4
Choose 3 credits from MTH-139, 201, 2103
Electives-4 credits
Choose additional general education, professional education, or mathematics courses depending upon transfer institution.

4

Total Degree Hours . 62 credit hours

* Foreign Language Requirement: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire foreign language sequence at one institution.

In addition to the specific courses listed above, students seeking an A.A.T. degree in Secondary Mathematics must also meet the following requirements for graduation:

Basic Skills Test-Students must earn a passing score on the Illinois Certification Testing System (ICTS) Basic Skills Test in order to earn the A.A.T. degree. A passing score on the test is also required for admission to teacher preparation programs at all Illinois four-year universities. Students should complete the Basic Skills Test after earning 45 semester hours of college credit and indicate both Moraine Valley and the intended transfer institution as receiving institutions on the application for the test. Students are responsible for ensuring that an official score report is on file in the Moraine Valley Records Office prior to the graduation deadline. Students who do not earn a passing grade on the Basic Skills Test can repeat the test; however, the A.A.T. degree cannot be awarded until a passing grade is received.

Portfolio—Students must submit a portfolio documenting that they have met the standards of the A.A.T. degree. The portfolio is developed over the course of the student's enrollment at the college beginning the first semester. Students will be introduced to the portfolio at special orientation programs and in EDU-100. Students must submit the complete portfolio for evaluation during their final semester of enrollment prior to graduation. Successful completion of the portfolio is required for the A.A.T degree to be awarded.
GPA—Admission to baccalaureate degree Education is competitive and most senior institutions require a GPA of 2.5 or higher. It is required to have a GPA of 2.5 of A.A.T. in Science graduates to insure admission into the desired Education program.

[^12]The program(s) of study listed below is a model for students who are undecided about a transfer institution and uncertain about specific course requirements. This model transfer major is structured as a recommendation from the Illinois Community College Board for the Illinois Articulation Initiative Baccalaureate Major (I.A.I. Major).

Students who already know their intended transfer institution should refer to that school's catalog. In any case, students are strongly encouraged to work with a Moraine Valley academic advisor for specific course selection advice and transfer planning support.

## Secondary Science

## Associate in Arts in Teaching Degree

Meets IAI General Education Core Curriculum

## Curriculum Code 1481

This program prepares students for careers in the high need teaching discipline of secondary education science. This program is meant to facilitate the transfer of community college students desiring to become high school science teachers into upper-division teaching education programs. Students obtaining an A.A.T. in Secondary Science degree should have equal status with university native students at the beginning of junior year.

Required General Education Core Curriculum-37-39 credits as follows:

| Communications—9 credits |  |
| :--- | :--- |
| COM-101 | Composition I |
| COM-102 | Composition II |
| COM-103 | Speech Fundamentals |
| Mathematics-7-9 | credits |
| MTH-150 <br> and | Calculus I/Analytic Geometry |
| MTH-151 | Calculus II/Analytic Geometry |
| or |  |
| MTH-139 | Probability and Statistics |
| and <br> MTH-210 | Linear Algebra |

Physical and Life Sciences-8 credits
BIO-111 General Biology I
EAS-120 Introduction to Earth Science
Each of the Physical and Life Science courses shown above has a one-hour laboratory component included within the course structure and contact hours, with the exception of PHY-106/PHY-107 and PHY-110/PHY-111.

## Humanities and Fine Arts ${ }^{1}-6$ credits

Choose three credits from ARB-202; FRE-202, GER-202: HUM-101, $102,115,120,135$ or 140 or 145 ; JPN-202; LIT-213, 214, 215 or 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 230; PHI-101, 111, 120, 125; SPA-202, 213
Choose three credits from ART-110, 205, 206 or 208, 209;
HUM-101, 102, 120, 135 or 140 or 145; MUS-106, 107;
THE-105, 107, 110, 111
Recommended that students choose a literature course and a Non-Western or Third World Cultures course, depending on the transfer institution.
Social and Behavioral Sciences-6 credits
Select nine credits from more than one prefix.
ANT-201, 202, 210; ECO-101, 102; GEO-101 or 102, 201;
HIS-101, 102, 201, 202, 210, 215, 220; PSC-103, 110, 115,
210, 215, 225; PSY-101,104, 105, 106, 202, 210; SOC-101,
102, 204, 201, 210, 215; SSC-101
Recommended that students choose from HIS-201 or HIS-202 (U.S. History), PSC-110 (American National Government), or PSY-105 (Child Psychology), depending on the transfer institution.

A pre- or corequisite may be required for some courses.

Professional Education-3 credits

> EDU-100 Introduction to Education

Science Major Core-8 credit hours
CHM-131 Chemistry (University Oriented) I 4
PHY-203 Mechanics 4
Other Major Course Requirements-12 credits
BIO-112 General Biology II 4
CHM-132 Chemistry (University Oriented) II 4
PHY-204 Heat, Electricity, and Magnetism 4

Electives-if needed to complete minimum 62 hour requirement.
BIO-115, 119, 180, 181; CHM-203, 204; GEL-150; NAT-111, 112; PHS-101, 103; PHY-205

Total Degree Hours .62 credit hours

In addition to the specific courses listed above, students seeking an A.A.T. degree in Secondary Science must also meet the following requirements for graduation:
Basic Skills Test-Students must earn a passing score on the Illinois Certification Testing System (ICTS) Basic Skills Test in order to earn the A.A.T. degree. A passing score on the test is also required for admission to teacher preparation programs at all Illinois four-year universities. Students should complete the Basic Skills Test after earning 45 semester hours of college credit and indicate both Moraine Valley and the intended transfer institution as receiving institutions on the application for the test. Students are responsible for ensuring that an official score report is on file in the Moraine Valley Records Office prior to the graduation deadline. Students who do not earn a passing grade on the Basic Skills Test can repeat the test; however, the A.A.T. degree cannot be awarded until a passing grade is received.

Portfolio-Students must submit a portfolio documenting that they have met the standards of the A.A.T. degree. The portfolio is developed over the course of the student's enrollment at the college beginning the first semester. Students will be introduced to the portfolio at special orientation programs and in EDU-100. Students must submit the complete portfolio for evaluation during their final semester of enrollment prior to graduation. Successful completion of the portfolio is required for the A.A.T degree to be awarded.
GPA—Admission to baccalaureate degree Education is competitive and most senior institutions require a GPA of 2.5 or higher. It is required to have a GPA of 2.5 of A.A.T. in Science graduates to insure admission into the desired Education program.

The program(s) of study listed below is a model for students who are undecided about a transfer institution and uncertain about specific course requirements. This model transfer major is structured as a recommendation from the Illinois Community College Board for the Illinois Articulation Initiative Baccalaureate Major (I.A.I. Major).

Students who already know their intended transfer institution should refer to that school's catalog. In any case, students are strongly encouraged to work with a Moraine Valley academic advisor for specific course selection advice and transfer planning support.

## Sociology

## Associate in Arts Degree

62 Credit Hours
Students interested in a major in sociology should complete the Associate in Arts (AA) degree prior to transfer and should be aware that it may be necessary to take additional credit hours depending on the requirements of the intended transfer institution. In addition to the specific general education courses listed, students are encouraged to complete additional general education courses (including courses in the social and behavioral sciences other than sociology) and mathematics. These course recommendations are intended for students who are undecided about a transfer school. Students who have selected a transfer school should consult the catalog of that school and an academic advisor for requirements appropriate to the first two years of study. College catalogs and transfer guides for many four-year colleges are available in the Academic Advising Center.
Required General Education Core Curriculum-39 credits as follows:

| Communication-9 | credits | 3 |
| :---: | :--- | :--- |
| COM-101 | Composition I | 3 |
| COM-102 | Composition II | 3 |
| COM-103 | Speech Fundamentals |  |

Mathematics -4 credits
MTH-139 Probability and Statistics
or
MTH-143 Finite Mathematics
4
Physical and Life Sciences-8 credits
Choose four credits from BIO-111, 112, 115, 119, 180;
NAT-111, 112
Choose four credits from CHM-111, 131; EAS-120, 125, 130;
GEL-150; PHS-101, 103; PHY-106 \& 107, 110 \& 111, 150, 203
Each of the Physical and Life Science courses shown above has a one-hour laboratory component included within the course structure and contact hours, with the exception of PHY-106/PHY-107 and PHY-110/PHY-111.
Humanities and Fine Arts²-9 credits
Choose three credits from ARB-202; FRE-202; GER-202; HUM-101, 102, 115, 120, 135 or 140 or 145; JPN-202; LIT-213, 214, 215 or 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 230; PHI-101, 111, 120, 125; SPA-202, 213
Choose three credits from ART-110, 205, 206 or 208, 209;
HUM-101, 102, 120, 135 or 140 or 145; MUS-106, 107;
THE-105, 107, 110, 111
Choose an additional three credits from any of the courses above.
Social and Behavioral Sciences-9 credits
SOC-101 General Sociology
Select six credits from more than one prefix.
ANT-201, 202*, 210; ECO-101, 102; GEO-101 or 102, 201;
HIS-101, 102, 201, 202, 210, 215, 220; PSC-103, 110, 115,
210, 215, 225; PSY-101, 104, 105, 106, 202, 210; SOC-101, 102, 204, 201, 210, 215; SSC-101

Additional Degree Requirement-3 credits
SOC-102 Marriage and Family
Area of Concentration/Major Field-6 credits
Choose 2 from the following:
SOC-204 Sociology of Contemporary Social Problems 3
SOC-210 Minority Groups 3
SOC-215 Sociology of Sex and Gender 3
Electives-14 credits
Students should consult the catalog of the intended transfer school to choose the most appropriate courses for this major.
${ }^{1}$ Math requirements vary at four-year institutions.
${ }^{2}$ Foreign Language Requirement: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire foreign language sequence at one institution.
*Recommended

Students who already know their intended transfer institution should refer to that school's catalog. In any case, students are strongly encouraged to work with a Moraine Valley academic advisor for specific course selection advice and transfer planning support.

## Special Education

## Associate in Arts Degree

62 Credit Hours
To teach in Illinois public schools, individuals must be certified by the State of Illinois after completion of a baccalaureate degree. Students interested in special education as a transfer major must carefully choose their courses while consulting the requirements of the intended transfer school and an academic advisor. Students are encouraged to complete the Associate in Arts (A.A.) degree prior to transfer. Students should be aware that admission to the junior year of special education may be competitive and that each four-year college has specific requirements for admission including a basic skills test and a minimum grade point average. These course recommendations are intended for students who are undecided about a transfer school. Students who have selected a transfer school should consult the catalog of that school and an academic advisor for requirements appropriate to the first two years of study. College catalogs and transfer guides for many four-year colleges are available in the Academic Advising Center.

Required General Education Core Curriculum-38 credits as follows:
Communications-9 credits
COM-101 Composition I 3
COM-102 Composition II 3
COM-103 Speech Fundamentals 3
Mathematics'—3 credits
Select three hours from MTH-120, 121+122*, 139, 143,
145, 150, 151, 152, 212
3
*Recommended
Physical and Life Sciences-8 credits
Choose four credits from BIO-111, 112, 115, 119, 180;
NAT-111, 112
4
Choose four credits from CHM-111, 131; EAS-120, 125, 130;
GEL-150; PHS-101, 103; PHY-106 \& 107, 110 \& 111,

$$
150,203
$$

4
Each of the Physical and Life Science courses shown above has a one-hour laboratory component included within the course structure and contact hours, with the exception of PHY-106/PHY-107 and PHY-110/PHY-111.

Humanities and Fine Arts ${ }^{2}-9$ credits
Choose three credits from ARB-202; FRE-202; GER-202; HUM-101, 102, 115, 120, 135 or 140 or 145; JPN-202; LIT-213, 214, 215 or 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226227, 230; PHI-101, 111, 120, 125; SPA-202, 213
Choose three credits from ART-110, 205, 206 or 208, 209;
HUM-101, 102, 120, 135 or 140 or 145; MUS-106, 107;
THE-105, 107, 110, 111
Choose an additional three credits from any of the courses above. 3 Recommended that students choose a Non-Western or Third World Cultures course and a literature course.

Social and Behavioral Sciences-9 credits
HIS-201 American History I
or
HIS-202 American History II 3
PSC-110 American National Government 3
PSY-101 Introduction to Psychology 3
Additional Degree Requirement-3 credits PSY-104 Life-Span Developmental Psychology 3
Area of Concentration/Major Field-9 credits
EDU-100 Introduction to Education 3
EDU-103 Observation/Clinical Experience 1
EDU-111 Students with Disabilities in School 3
Electives-12 credits
Students should consult the catalog of the intended transfer school to choose the most appropriate courses for this major. Electives may include additional courses needed for teacher certification.
${ }^{1}$ Math requirements vary at four-year institutions.
${ }^{2}$ Foreign Language Requirement: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire foreign language sequence at one institution.

[^13]Students who already know their intended transfer institution should refer to that school's catalog. In any case, students are strongly encouraged to work with a Moraine Valley academic advisor for specific course selection advice and transfer planning support.

## Special Education

## Associate in Arts in Teaching Degree

## 63 Credit Hours

This program prepares students for careers in the high need teaching discipline of special education. This program is meant to facilitate the transfer of community college students who desire to further their educational goal of becoming special education teachers into Colleges of Education at four-year Universities. Students obtaining an AAT in Special Education should have equal status with university native students at the beginning of their junior year. Students are required to have a minimum of a 2.5 grade point average for graduation. Students should be aware that admission to teacher education programs is competitive and requires a minimum grade point average which is determined by the transfer institution. Students should declare the AAT major and consult with an academic advisor as soon as possible in their enrollment. Students should consult the college catalog and transfer guide to their intended transfer institution for any additional requirements.

Required General Education Core Curriculum-45 credits as follows:
Communications-9 credits

| COM-101 | Composition I | 3 |
| :---: | :--- | :--- |
| COM-102 | Composition II | 3 |
| COM-103 | Speech Fundamentals | 3 |
| Mathematics'—10 | credits |  |
| MTH-121 | Math for Teachers I | 3 |
| MTH-122 | Math for Teachers II | 3 |
| MTH-139 | Probability and Statistics | 4 |
|  | (Another higher-level MTH course may be |  |
|  | substituted with education director's permission) |  |

Physical and Life Sciences-8 credits
Choose four credits from BIO-111, 112, 115, 119, 180;
NAT-111, 112
Choose four credits from CHM-111, 131; EAS-120, 125, 130;
GEL-150; PHS-101, 103; PHY-106 \& 107, 110 \& 111,
150, 203
Each of the Physical and Life Science courses shown above has a one-hour laboratory component included within the course structure and contact hours, with the exception of PHY-106/PHY-107 and PHY-110/PHY-111.

Humanities and Fine Arts ${ }^{2}-9$ credits
Choose three credits from ARB-202; FRE-202; GER-202; HUM-101,
102, 115, 120, 135 or 140 or 145; JPN-202; LIT-213, 214, 215 or
216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226227,
230; PHI-101, 111, 120, 125; SPA-202, 213
Choose three credits from ART-110, 205, 206 or 208, 209;
HUM-101, 102, 120, 135 or 140 or 145; MUS-106, 107;
THE-105, 107, 110, 111
Choose an additional three credits from any of the courses above. 3
Recommended that students choose a Non-Western or Third World Cultures course and a literature course.

Social and Behavioral Sciences-9 credits
HIS-201 American History
or
HIS-202 American History II 3
PSC-110 American National Government 3
PSY-101 Introduction to Psychology 3
Required Professional and Special Education**-18 credit hours
EDU-100 Introduction to Education 3
EDU-110 Technology for Educators 3
EDU-111 Students with Disabilities in Schools 3
PSY-105 Child Psychology 3
PSY-215 Educational Psychology 3
Choose one from the following:
EDU-104 Introduction to the Foundations of Reading 3

EDU-106 Language Development 3
EDU-108 Diversity in Schools and Society 3
** Students must aquire at least a "C" or better in professional/special education coursework for the Special Education Degree.
${ }^{1}$ Math requirements vary at four-year institutions.
${ }^{2}$ Foreign Language Requirement: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire foreign language sequence at one institution.

The program(s) of study listed below is a model for students who are undecided about a transfer institution and uncertain about specific course requirements. This model transfer major is structured as a recommendation from the Illinois Community College Board for the Illinois Articulation Initiative Baccalaureate Major (I.A.I. Major).

Students who already know their intended transfer institution should refer to that school's catalog. In any case, students are strongly encouraged to work with a Moraine Valley academic advisor for specific course selection advice and transfer planning support.

## Theater Arts

## Associate in Arts Degree 62 Credit Hours

The courses below are for students planning to transfer into a baccalaureate theater arts program. Students interested in theater arts as a transfer major are encouraged to complete the Associate in Arts (A.A.) degree prior to transfer. Students should be aware that admission to the junior year of theater arts may be competitive and often require an audition. These course recommendations are intended for students who are undecided about a transfer school. Students who have selected a transfer school should consult the catalog of that school and an academic advisor for requirements appropriate to the first two years of study. College catalogs and transfer guides for many four-year colleges are available in the Academic Advising Center.

Required General Education Core Curriculum-38 credits as follows:
Communications- 9 credits

| COM-101 | Composition I | 3 |
| :--- | :--- | :--- |
| COM-102 | Composition II | 3 |
| COM-103 | Speech Fundamentals | 3 |

Mathematics ${ }^{1}-3$ credits
Select three hours from MTH-120, 139, 143,
$145,150,151,152,212$
Physical and Life Sciences-8 credits
Choose four credits from BIO-111, 112, 115, 119, 180;
NAT-111, 112
Choose four credits from CHM-111, 131; EAS-120, 125, 130;
GEL-150, PHS-101, 103; PHY-106 \& 107, 110 \& 111, 150, 203 4
Each of the Physical and Life Science courses shown above has a one-hour laboratory component included within the course structure and contact hours, with the exception of PHY-106/PHY-107 and PHY-110/PHY-111.
Humanities and Fine Arts²-9 credits
Choose three credits from ARB-202; FRE-202; GER-202; HUM-101,
102, 115, 120, 135 or 140 or 145; JPN-202; LIT-213, 214, 215 or
216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227,
230; PHI-101, 111, 120, 125; SPA-202, 213
Choose three credits from ART-110, 205, 206 or 208, 209;
HUM-101, 102, 120, 135 or 140 or 145; MUS-106, 107;
THE-105, 107, 110, 111
Choose an additional three credits from any of the courses above.
Social and Behavioral Sciences-9 credits
Select nine credits from more than one prefix.
ANT-201, 202, 210; ECO-101, 102; GEO-101 or 102,
201; HIS-101, 102, 201, 202, 210, 215, 220;
PSC-103, 110, 115, 210, 215, 225; PSY-101, 104, 105,
106, 202, 210; SOC-101, 102, 204, 210, 215; SSC-101

Additional Degree Requirement-3 credits
THE-105 Theater Appreciation
$\begin{array}{cc}\text { Area of Concentration/Major Field-6 credits } \\ \text { THE-115 Acting I } & 3\end{array}$
$\begin{array}{lll}\text { THE-115 } & \text { Acting } & 3 \\ \text { THE-125 } & \text { Stagecraft } & 3\end{array}$
Electives-15 credits
Students should consult the catalog of the intended transfer school to choose the most appropriate courses for this major. Courses may include:

THE-116 Acting II
3
${ }^{1}$ Math requirements vary at four-year institutions.
${ }^{2}$ Foreign Language Requirement: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire foreign language sequence at one institution.

[^14]

## Career Programs

To prepare students whose goal is immediate employment upon graduation, Moraine Valley offers Career Programs that lead to Associate in Applied Science (A.A.S.) degrees or to certificates.
Many of the Career Programs transfer in whole or in part to some universities. However, these programs are not designed specifically for transfer. Students intending to transfer should consult an academic advisor.

Career outlook information is provided by the Occupational Outlook Handbook and other sources.
High school graduates may be eligible for proficiency credit in some career programs. Additional career programs are offered to Moraine Valley students at other area community colleges through cooperative agreements. See page 148 for more information.

|  | Certificate | Associate in Applied Science Degree | Semester Hours | Program Requirements on Page |
| :---: | :---: | :---: | :---: | :---: |
| Art <br> Digital Art/Design (1428) |  | - | 66 | 97 |
| Business <br> Business Administration Associate (1202) |  | - | 62 | 92 |
| Accounting Assistant/Clerk (1328) | - |  | 32 | 93 |
| Business Skills (1423) | - |  | 9 | 93 |
| Culinary Arts Management (1324) |  | - | 66 | 99 |
| Baking/Pastry Arts (1323) | - |  | 30 | 99 |
| Culinary Arts Management (1322) | - |  | 34 | 99 |
| Human Resources Management (1412) |  | - | 62 | 108 |
| Employee Training and Development (1413) | - |  | 30 | 108 |
| Marketing and Management (1238) |  | - | 62 | 118 |
| Restaurant/Hotel Management (1256) |  | - | 66 | 139 |
| Beverage Management (1414) | - |  | 18 | 139 |
| Restaurant/Hotel Management (1254) | - |  | 35 | 139 |
| Small Business Management (1411) |  | - | 63 | 140 |
| Travel Business Management (1288) |  | - | 62 | 143 |
| Meeting Planner (1465) | - |  | 30 | 143 |
| Travel-Tourism (1289) | - |  | 26 | 144 |
| Computer Integrated Technologies <br> Computer and Local Area Network Technician (1416) |  | - | 63 | 95 |
| Computer Technician (1418) | - |  | 18 | 95 |
| LAN Technician (1419) | - |  | 24 | 96 |
| Network Administrator (1422) | - |  | 37 | 95 |
| Electronic/Computer Controls Tech (1281) |  | - | 63 | 100 |
| Electronic Controls Technician (1417) | - |  | 42 | 100 |
| Electronics Technician (1282) | - |  | 18 | 100 |
| Integrated Systems Technology (1403) |  | - | 63 | 109 |
| Voice and Data Specialist (1435) |  | - | 63 | 145 |
| Cisco Network Associate (1447) | - |  | 20 | 145 |
| Cisco Network Professional (1448) | - |  | 16 | 145 |
| Microsoft Professional (1446) | - |  | 21 | 145 |
| IT Security Specialist (1420) |  | - | 63 | 110 |
| Network Security Specialist (1424) | - |  | 36 | 110 |
| Mechanical and Fluid Power Maintenance (1275) | - |  | 40 | 120 |
| Mechanical Design and Drafting/CAD (1221) |  | - | 64 | 121 |
| 3-D CAD (1439) | $\bullet$ |  | 17 | 121 |
| 3-D Parametric Modeling (1339) | - |  | 8 | 121 |
| Architectural CAD (1436) | - |  | 23 | 121 |
| CAD Programming/Management (1437) | $\bullet$ |  | 18 | 122 |
| Computer Animation (1438) | - |  | 23 | 122 |
| Mechanical Design CAD (2102) | - |  | 23 | 122 |
| Mechanical Design Drafting (1220) | - |  | 30 | 122 |
| Health Sciences <br> Emergency Medical Services (1332) |  | - | 62 | 101 |
| Emergency Medical Services (1320) | - |  | 35 | 101 |
| Gerontology (1336) | - |  | 16 | 103 |

CAREER PROGRAMS

|  | Certificate | Associate in Applied Science Degree | Semester Hours | Program Requirements on Page |
| :---: | :---: | :---: | :---: | :---: |
| Health Information Technology (1244) |  | - | 66 | 104 |
| Coding Specialist (1431) | - |  | 31 | 105 |
| Medical Billing (1440) | $\bullet$ |  | 10 | 106 |
| Medical Transcription (1432) | - |  | 20 | 105 |
| Massage Therapy (1249) | - |  | 31 | 119 |
| Medical Assistant (1455) | - |  | 42 | 123 |
| Nursing (1246) |  | - | 72 | 124 |
| Phlebotomy (1306) | - |  | 9 | 131 |
| Polysomnography Technologist (1441) | - |  | 25 | 132 |
| Radiologic Technology (1240) |  | - | 72 | 134 |
| Respiratory Therapy Technology (1241) |  | - | 71 | 137 |
| Information Management Systems <br> Management Information Systems (1206) |  | - | 64 | 111 |
| C++ Programmer (1459) | - |  | 18 | 113 |
| C\# Programmer (1466) | - |  | 18 | 113 |
| E-Commerce Assistant (1460) | - |  | 36 | 114 |
| Java Programmer (1458) | - |  | 18 | 114 |
| Microsoft Application Developer (1313) | - |  | 15 | 116 |
| Multimedia Designer (1342) | - |  | 21 | 114 |
| RPG Programmer (1233) | - |  | 18 | 114 |
| Software Developer (1305) | - |  | 36 | 115 |
| Visual Basic.NET Programmer (1457) | - |  | 21 | 116 |
| Website Designer (1434) | - |  | 30 | 117 |
| Website Developer (1433) | - |  | 36 | 117 |
| Office Systems and Applications (1257) |  | - | 64 | 126 |
| Administrative Assistant (1315) | - |  | 36 | 128 |
| Data Entry (1317) | - |  | 7 | 129 |
| Desktop Publishing and Graphics (1312) | - |  | 15 | 128 |
| Legal Office Assistant (1316) | - |  | 36 | 128 |
| Medical Secretary (1318) | - |  | 34 | 129 |
| Microsoft Office Specialist (1456) | - |  | 22 | 129 |
| PC Applications Help Desk (1311) | - |  | 34 | 128 |
| Receptionist/Office Assistant (1214) | - |  | 19 | 129 |
| Mechanical Technologies Automotive Technology (1277) |  | - | 62 | 90 |
| Automotive Climate Control Tech (1462) | - |  | 12 | 90 |
| Automotive Service Technician (1237) | - |  | 48 | 90 |
| Brake and Chassis Technician (1461) | - |  | 12 | 91 |
| Drivetrain Technician (1464) | - |  | 16 | 91 |
| Engine Driveability Technician (1463) | - |  | 24 | 91 |
| Heating and Air Conditioning (1215) | - |  | 34 | 107 |
| Advanced Air Conditioning Tech (1454) | - |  | 16 | 107 |
| Basic Air Conditioning Tech (1453) | $\bullet$ |  | 19 | 107 |
| Commercial Systems Services Tech (1337) | - |  | 13 | 107 |
| Electrical Troubleshooting (1452) | - |  | 15 | 107 |
| Individualized Welding (1530) | - |  | 8 | 146 |
| Multi-Process Welding (1532) | - |  | 9 | 147 |
| Pipe Welding (1531) | - |  | 18 | 147 |
| Stationary Engineer (1329) |  | - | 62 | 141 |
| HAC Stationary Engineer (1326) | - |  | 44 | 141 |
| Shielded Metal Arc Welding (1529) | $\bullet$ |  | 9 | 147 |
| Welding, Advanced (1229) | - |  | 33 | 146 |
| Welding, Combination (1230) | - |  | 26 | 146 |


|  | Certificate | Associate in Applied Science Degree | Semester Hours | Program Requirements on Page |
| :---: | :---: | :---: | :---: | :---: |
| Public Service <br> Addictions Studies (1314) |  | - | 64 | 89 |
| Addictions Studies (1321) | - |  | 44 | 89 |
| Child Care (1264) |  | - | 62 | 94 |
| Criminal Justice (1260) |  | - | 62 | 98 |
| Fire Service Management (1262) |  | - | 62 | 102 |
| Fire Service Operations (1331) |  | - | 61 | 102 |
| Fitness Trainer (1279) | - |  | 30 | 103 |
| Recreation Management (1261) |  | - | 64 | 135 |
| Recreation Therapy (1259) |  | - | 63 | 136 |
| Security Services (1307) | - |  | 11 | 133 |
| Education <br> Paraprofessional Educator (1470) |  | - | 62 | 130 |
| Paraprofessional Educator (1270) | - |  | 31 | 130 |
| Workforce Development <br> Supply Chain Management (1319) | $\bullet$ |  | 17 | 142 |

## Addictions Studies

## This program consists of one degree and one certificate.

## A.A.S. Degree-64 credit hours

## Curriculum Code 1314

This program is designed to give students an opportunity to develop the skills and knowledge necessary to become a certified addictions counselor in Illinois through the Illinois Alcohol and Other Drug Abuse Professional Certification Association (IAODAPCA) and related certification entities. The Illinois Division of Alcohol and Substance Abuse (DASA), under the Department of Human Services, requires all clinical staff working in a licensed addictions treatment program to be certified as an Addictions Counselor through IAODAPCA. Students who complete the Associate in Applied Science degree are eligible to take the credentialing exam for the Certified Alcohol and Other Drug Abuse Counselor (CADC). Upon completion of this degree, the normal two-year work experience requirement for new Addictions Counselors prior to certification is waived.

Required General Education Courses-20 credit hours as follows:

| COM-101 | Composition I | 3 |
| :--- | :--- | :--- |
| COM-103 | Speech Fundamentals | 3 |
| MTH-098 | Intermediate Algebra, or higher | 4 |

Select three credits from Fine Arts and Humanities: ARB, ART, FRE, GER, HUM, JPN, LIT, MUS, PHI, SPA, THE
Select three credits from Social Science: ANT, ECO, GEO, HIS, PSC, PSY, SOC, SSC
Select four credits from BIO, CHM, EAS, GEL, NAT, PHS, PHY
Required Career Courses-41 credit hours as follows:
ADC-100 Human Development and Behavior
ADC-101 Introduction to Addiction Counseling
ADC-106 Theory and Practice of Counseling
ADC-108 Treatment Delivery Models
ADC-112 Diversity in Addictions Counseling
ADC-202 Substance Use, Abuse and Dependency
ADC-204 Psychopharmacology
ADC-206 Group Counseling
ADC-207 Family Dynamics and Counseling
ADC-208 Case Management
ADC-211 Compliance and Ethics
ADC-233 Field Practicum
ADC-237 Seminar
ADC-243 Advanced Field Practicum
ADC-247 Advanced Seminar
Career Electives-Select 3 credits from the following:
ADC-110 Common Behavior Disorders
ADC-219 Contemporary Issues: Alcohol/Drugs
ADC-230 Special Topics in Addiction Studies 1
CRJ-101 Introduction to Criminal Justice 3
CRJ-105 Criminology 3
IMS-115 Introduction to PC Applications 3
PSY-205 Abnormal Psychology 3
SPA-125 Career Spanish for Law Enforcement I 3
SPA-126 Career Spanish for Law Enforcement II 3

## Addictions Studies

## Certificate-44 credit hours

Curriculum Code 1321
The primary goal of this program is to give students an opportunity to develop the skills and knowledge necessary to pursue and become certified addictions counselors in Illinois through the Illinois Alcohol and Other Drug Abuse Professional Certification Association and related certification entities.

Much faster than average employment growth for all occupations is expected for human services workers who are needed as society focuses on ways to develop mental well-being, such as controlling job- and family-related stress with the help of counselors. In addition, there will be a continuing need to provide services to those with substance abuse problems.

Required Career Courses-41 credits as follows:
ADC-100 Human Development and Behavior 3
ADC-101 Introduction to Addiction Counseling 3
ADC-106 Theory and Practice of Counseling 3
ADC-108 Treatment Delivery Models 3
ADC-112 Diversity in Addictions Counseling 3
ADC-202 Substance Use, Abuse and Dependency 3
ADC-204 Psychopharmacology 3
ADC-206 Group Counseling 3
ADC-207 Family Dynamics and Counseling 3
ADC-208 Case Management 3
ADC-211 Compliance and Ethics 3
ADC-233 Field Practicum 3
ADC-237 Seminar 1
ADC-243 Advanced Field Practicum 3
ADC-247 Advanced Seminar 1
Electives-Select 3 credits from the following:
ADC-110 Common Behavior Disorders 3
ADC-219 Contemporary Issues: Alcohol/Drugs 2
ADC-230 Special Topics in Addiction Studies 1
CRJ-101 Introduction to Criminal Justice 3
CRJ-105 Criminology 3
IMS-115 Introduction to PC Applications 3
PSY-205 Abnormal Psychology 3
SPA-125 Career Spanish for Law Enforcement I 3
SPA-126 Career Spanish for Law Enforcement II 3

## Automotive Technology

This program consists of one degree and five certificates.

## A.A.S. Degree-62 credit hours

## Curriculum Code 1277

This curriculum familiarizes the student with the technical aspects of operating and servicing various components and systems used in automotive applications. Classroom lecture is devoted to theory of operation, troubleshooting and repair. Lab work incorporates work on equipment in which safety, business ethics, testing procedures, and techniques are emphasized.

Jobs are plentiful for automotive technicians with the strong electronics background needed to work on today's vehicles. The growing complexity of automotive technology, the introduction of hybrid vehicles, the increased use of electronics and emissions control systems and the demand for increased fuel efficiency, all require that vehicles be serviced by highly trained technicians. Rising consumer purchase power; expansion of the driving-age population; and automobiles needing maintenance for pollution control, safety devices and air conditioning contribute to the growth of this occupation.

Required General Education Courses-15 credits as follows:
COM-101 Composition I
COM-103 Speech Fundamentals 3
MTH-133 Math for Industry 2
or higher
PHY-106 Fundamentals of Physics
PHY-107 Fundamentals of Physics Lab
Select three credits from ANT, ARB, ART, ECO, FRE,
GEO, GER, HIS, HUM, JPN, LIT, MUS, PHI, PSC,
PSY, SOC, SPA, SSC, THE
Required Career Courses-32 credits as follows:
AUT-112 Introductory Automotive Technology
AUT-114 Electrical/Electronic Systems I
AUT-121 Automotive Brake Systems
AUT-125 Performance and Driveability I
AUT-214 Electrical/Electronic Systems II
AUT-232 Performance and Driveability II
AUT-234 Steering and Suspension Systems
AUT-236 Automotive Engine Reconditioning
Electives-Select 15 credit hours from the following:
AUT-120 Automotive Service Advisor 3

AUT-127 Intro to Alternative Fuels 3
AUT-233 Internship Seminar 1
AUT-237 Internship 3
AUT-240 Manual Transmissions and Drivelines 4
AUT-242 Automatic Transmissions 4
AUT-244 OBDII and Emission Control Systems 4
AUT-246 Heating and Air Conditioning Systems 4

## Automotive Service Technician <br> Certificate-48 credit hours <br> Curriculum Code 1237

This program provides the student with the entry-level skills needed to become an automotive technician. The program develops the necessary manipulative skills along with the theory of operation of various automotive systems.
Along with developing necessary job skills, the student can use the certificate as a partial fulfillment of the requirements for the A.A.S. degree in automotive technology.

Required Career Courses-48 credits as follows:
AUT-112 Introductory Automotive Technology 4
AUT-114 Electrical/Electronic Systems I 4
AUT-121 Automotive Brake Systems
AUT-125 Performance and Driveability I
AUT-214 Electrical/Electronic Systems II
AUT-232 Performance and Driveability II
AUT-234 Steering and Suspension Systems
AUT-236 Automotive Engine Reconditioning
AUT-240 Manual Transmissions and Drivelines
AUT-242 Automatic Transmissions
AUT-244 OBDII and Emission Control Systems 4
AUT-246 Heating and Air Conditioning Systems 4

## Automotive Climate Control Tech

## Certificate-12 credit hours

Curriculum Code 1462
This program prepares the student for an entry-level position in the automotive service industry.

Required Career Courses-12 credits as follows:
AUT-112 Introductory Automotive Technology 4
AUT-114 Electrical/Electronic Systems I 4
AUT-246 Heating and Air Conditioning Systems 4

[^15]
## Brake and Chassis Technician

## Certificate- 12 credit hours

## Curriculum Code 1461

This program prepares the student for an entry-level position in the automotive service industry.

## Required Career Courses-12 credits as follows:

AUT-112 Introductory Automotive Technology 4

AUT-121 Automotive Brake Systems 4
AUT-234 Steering and Suspension Systems 4

## Drivetrain Technician

Certificate-16 credit hours

## Curriculum Code 1464

This program prepares the student for an entry-level position in the automotive service industry.

Required Career Courses-16 credits as follows:
AUT-112 Introductory Automotive Technology 4
AUT-114 Electrical/Electronic Systems I 4
AUT-240 Manual Transmissions and Drivelines 4
AUT-242 Automatic Transmissions 4

## Engine Driveability Technician

## Certificate-24 credit hours

Curriculum Code 1463
This program prepares the student for an entry-level position in the automotive service industry.

Required Career Courses-24 credits as follows:
AUT-112 Introductory Automotive Technology 4
AUT-114 Electrical/Electronic Systems I 4
AUT-125 Performance and Driveability I 4
AUT-214 Electrical/Electronic Systems II 4
AUT-232 Performance and Driveability II 4
AUT-244 OBDII and Emission Control Systems 4

## Automotive Technology-CAP Program

Moraine Valley Community College's Automotive Program is affiliated with the Chrysler College Automotive Program. Moraine Valley Community College is one of 26 CAP schools nationwide to have this distinction. The Chrysler College Automotive Program, also known as CAP, has a similar structure to the college's general automotive Associate in Applied Science (A.A.S.) degree program. It differs in that it focuses course information and hands-on activities exclusively using Chrysler-DodgeJeep products and procedures. The student is required to work at an approved Chrysler dealer or Chrysler fleet location as an entry-level technician during the internship period. Students completing the A.A.S. through the CAP program also will receive a certificate from Chrysler Corporation.

## Business Administration Associate This program consists of one degree and two certificates.

## A.A.S. Degree-62 credit hours

## Curriculum Code 1202

This program is designed to provide students with employment or advancement in business, industry, government, or service organizations. The curriculum is intended to serve the needs of students who want to enter management positions and to enable those already in management to upgrade their skills and potential for growth. The student can major in one of four areas: accounting, business information management, management, or marketing. This program includes an internship/seminar component.

Required General Education Courses-19 credits as follows:
BUS-120 Business Mathematics
or
MTH-120
or higher
General Education Mathematics (recommended for transfer students)
COM-101 Composition I
COM-103 Speech Fundamentals
ECO-101 Principles of Macroeconomics
Select four credits from BIO, CHM, EAS, GEL,
NAT, PHS, PHY, or MTH-098 or above
Select three credits from ARB, ART, FRE, GER, HUM,
JPN, LIT, MUS, PHI, SPA, THE
Required Career Courses-25 credits as follows: BUS-100 Introduction to Business
BUS-110 Legal Environment in Business
or
BUS-136 Business Law
BUS-135 Personal Finance
BUS-142 Financial Accounting
BUS-226 Business Ethics
BUS-231 Principles of Management
BUS-233 Internship
BUS-237 Seminar
IMS-115 Introduction to PC Applications

Electives-Students must select a total of 18 credits from the following options with at least 12 credits from a single concentration area.

## Accounting

BUS-134 International Business 3
BUS-143 Managerial Accounting 4
BUS-145 Computer Applications in Accounting 3
BUS-148 Introduction to Finance 3
BUS-240 Intermediate Accounting I 3
BUS-241 Intermediate Accounting II 3
BUS-242 Cost Accounting 3
BUS-243 Federal Income Taxes 3
OSA-122 Electronic Spreadsheets 3
Business Information Management
BUS-143 Managerial Accounting 4
BUS-145 Computer Applications in Accounting 3
LAN-103 Security Awareness 1
LAN-111 IT Essentials-A+ 3
MIS-111 Internet Technologies 3
MIS-121 Networking for Business 3
MIS-146 Operating Systems 3
MIS-210 Project Management 3
OSA-122 Electronic Spreadsheets 3
OSA-145 PC Word Processing 3
OSA-230 Business Presentations 3
OSA-232 Desktop Publishing 3
OSA-257 Database Management 3
(Advanced application courses may be substituted with permission)
Management
BUS-105
BUS-130
BUS-134
BUS-143
BUS-170
BUS-215 Employee Training and Development 3
BUS-232 Human Resources Management 3
OSA-230 Business Presentations 3
PSY-201 Industrial/Organizational Psychology 3
TDL-101 Transportation and Logistics Overview 3
Marketing
BUS-130 Principles of Marketing 3
BUS-131 Principles of Retailing 3
BUS-133 Salesmanship 3
BUS-134 International Business 3
BUS-143 Managerial Accounting 4
BUS-155 Display and Visual Merchandising 3
BUS-200 Consumer Behavior 3
BUS-230 Advertising 3
PSY-201 Industrial/Organizational Psychology 3

## Accounting Assistant/Clerk

## Certificate-32 credit hours

## Curriculum Code 1328

This program is designed to prepare students for entry-level accounting employment in the shortest possible time.

| Required Career Courses-26 credits as follows: |  |  |
| :--- | :--- | :--- |
| BUS-100 | Introduction to Business |  |
| BUS-142 | Financial Accounting | 3 |
| BUS-143 | Managerial Accounting | 4 |
| BUS-145 | Computer Applications in Accounting | 4 |
| BUS-226 | Business Ethics | 3 |
| IMS-115 | Introduction to PC Applications | 3 |
| OSA-122 | Electronic Spreadsheets | 3 |
| OSA-145 | PC Word Processing | 3 |
| Electives-Select six credits from the following: | 3 |  |
| BUS-134 | International Business |  |
| BUS-148 | Introduction to Finance | 3 |
| BUS-240 | Intermediate Accounting I | 3 |
| BUS-242 | Cost Accounting | 3 |
| BUS-243 | Federal Income Taxes | 3 |
| MIS-111 | Internet Technologies | 3 |
| OSA-230 | Business Presentations | 3 |
| OSA-257 | Database Management | 3 |
|  |  | 3 |

## Business Skills <br> Certificate-9 credit hours

Curriculum Code 1423
This certificate provides students with opportunities to develop the most important basic skills needed in virtually all work places today. Students develop an understanding of business theory, accounting fundamentals, the most common PC applications, and essential Internet skills. Students may complete beginning-level or higher-level coursework in accounting and Internet technologies to qualify for this certificate, depending on requirements in other certificates or degrees they are pursuing.

Required Career Courses-nine credits as follows:

| BUS-100 | Introduction to Business |  |
| :--- | :--- | ---: |
| BUS-107 <br> or | Fundamentals of Accounting |  |
| BUS-142 <br> or | Financial Accounting | 3 |
| OSA-249 | Accounting for Office Professionals |  |
| IMS-115 | Introduction to PC Applications | $2-4$ |
| MIS-108 | Internet Basics | 3 |
| or |  |  |
| MIS-111 | Internet Technologies | $1-3$ |

## Child Care

## This program consists of one degree.

## A.A.S. Degree-62 credit hours

## Curriculum Code 1264

This program prepares students for careers in early childhood development. It provides mid-management skills needed to work in kindergartens, nursery schools, day-care centers, and special programs for children from infancy through age 8.

Employment of preschool workers is projected to increase faster than the average for all occupations. Such rapid growth results from an increasing population of children under age 5, an increase in the number of working mothers and the turnover rate within the profession. Employment potential for Illinois is large and stable.

Required General Education Courses-25 credits as follows:

| COM-101 | Composition I | 3 |
| :--- | :--- | :--- |
| COM-102 | Composition II | 3 |
| COM-103 | Speech Fundamentals | 3 |
| PSY-101 | Introduction to Psychology | 3 |
| PSY-104 | Life-Span Developmental Psychology | 3 |

$\dagger$ Select seven credits from BIO, BUS-120, CHM, EAS, GEL, NAT, PHS, PHY, or MTH-098 or above 7
Select three credits from ARB, ART, FRE, GER, HUM, JPN, LIT, MUS, PHI, SPA, THE
Required Career Courses-31 credits as follows:
CCA-101 Introduction to Early Childhood Education 3

CCA-102 Growth and Development—Young Child 3
CCA-104 Language Development and Activities—Young Child 3
CCA-105 Health-Safety-Nutrition—Young Child 3
CCA-106 Creative Activities-Young Child 3
CCA-108 Observation and Guidance-Young Child 3
CCA-109 Child, Family and Community 3
CCA-201 Math and Science for the Young Child 3
CCA-205 Curriculum—Early Childhood Programs 3
CCA-233 Internship I 3
CCA-237 Seminar I 1
Electives—Select six credits from the following:
CCA-107 Infant and Toddler Care
CCA-110 Parenting 3
$\begin{array}{ll}\text { CCA-203 } & \text { Administration and Supervision of } \\ & \text { Early Childhood Programs }\end{array}$
CCA-204 The Child at Risk 3
CCA-211 Special Topics in Child Development 1
EDU-105 Classroom Management 3
EDU-111 Students with Disabilities in School 3
EDU-205 Literature for Children/Young Adults 3
PEH-170 First Aid 3
PEH-181 Fundamentals of Rhythmical Movement 2
REC-180 Perceptual Motor Development 3
$\dagger$ A minimum level of competency in mathematics is required for graduation for all A.A.S. degrees. This minimum competency may be demonstrated in one of two ways:

1. Placement in MTH-098 or higher; or
2. Successful completion of BUS-120, or MTH-095 or higher, or equivalent course at another college, with a grade of "C" or higher.

A pre- or corequisite may be required for some courses.

## Computer and Local Area Network Technician <br> This program consists of one degree and three certificates.

## A.A.S. Degree-63 credit hours

## Curriculum Code 1416

This career path prepares students for entry-level positions as a data communications specialist in the information technology profession. Common career titles include PC support technician, LAN specialist, help desk support specialist, LAN system administrator, LAN design specialist, LAN engineer, and many others. The program prepares students for rewarding careers at the forefront of the information technological revolution. Students will examine the installation, maintenance, repair, and management of desktop PCs and local area networks. Students receive handson training in network operating systems, user administration, network security, and LAN switching and bridging design. The program also helps students prepare for $\mathrm{A}+, \mathrm{N}+$, CAN, MCP, and CCNA certification. Graduates of this program possess a wide range of product knowledge as well as hands-on experience in hardware and software installation and support.

Employment for electronic and computer technicians is expected to grow as fast as the average for all occupations. New technologies and increased computer use will continue to stimulate the demand for such workers, and many will find employment in private industry.

## General Education Requirements-18 credit hours as follows:

## COM-101 Composition I <br> COM-103 Speech Fundamentals

Select 3 credits from the following: ANT, ECO, GEO, HIS, PSC, PSY, SOC, SSC
$\dagger$ Select 6 credits from the following: BIO, CHM, EAS, GEL, NAT, PHS, PHY, or MTH-098 or above
Select 3 credits from the following: ARB, ART, FRE, GER, HUM, JPN, LIT, MUS, PHI, SPA, THE

## Career Courses Requirements

Core IT Technology-18 credit hours as follows:
LAN-101 Orientation to IT Professions
LAN-103 Security Awareness
LAN-111 IT Essentials-A+
LAN-112 Managing IT-A+
LAN-121 Network Essentials-Network+
LAN-122 Network Services
LAN-246 Routing and Switching-CCNA
IT Specialty Track-15 credit hours as follows:
LAN-102 Voice and Data Cabling
LAN-153 IT Security Essentials-Security+
LAN-220 Managing UNIX Environment
LAN-230 Managing Windows Servers
LAN-251 WLAN Design-CWNA
ective Courses- Select 12 credits from the following:

| LAN-253 | Managing Network Security I |
| :--- | :--- |
| LAN-256 | LAN Design-CCNA |
| LAN-260 | Internship |
| LAN-266 | WAN Design-CCNA |
| LAN-269 | Advanced Routing |
| LAN-270 | Converged Network Design |

LAN-270 Converged Network Design

LAN-271 Multilayer Switch Network Design 3
LAN-272 Optimizing Converged Networks 3
LAN-273 Network Security Design

## Computer Technician

## Certificate-18 credit hours

Curriculum Code 1418
This program prepares students for entry-level positions in PC installation, maintenance and repair professions. Common career titles include PC support technician, hardware specialist, help desk support specialist, hardware configuration technician, and many others. Students will examine PC software, including operating systems, office applications, network management, and desktop utilities. Courses also introduce a variety of current hardware technology, including CPU features and functions, system architecture, storage technology, backup devices, multimedia devices, and data communication equipment. This program also prepares students for the CompTIA A+ and N+ certifications.

Required Career Courses-18 credit hours as follows:
ELT-101 Electricity and Electronics 3
LAN-101 Orientation to IT Professions 1
LAN-103 Security Awareness 1
LAN-111 IT Essentials-A+ 3
LAN-112 Managing IT-A+ 3
LAN-121 Network Essentials-Network+ 3
LAN-122 Network Services 4

## Network Administrator

Certificate-27 credit hours
Curriculum Code 1422
The Network Administrator Certificate is designed to address the need for IT professionals with a comprehensive understanding of multiple operating systems in a mix of vendor environments. The program provides a multi-product approach to system administration. The courses introduce Microsoft, UNIX, Cisco, and Netware products in an interoperable environment.

| Required Career Courses-27 credits as follows: |  |  |
| :--- | :--- | :--- |
| LAN-101 | Orientation to IT Professions |  |
| LAN-102 | Voice and Data Cabling | 1 |
| LAN-103 | Security Awareness | 3 |
| LAN-111 | IT Essentials-A+ | 1 |
| LAN-121 | Network Essentials-Network+ | 3 |
| LAN-122 | Network Services | 3 |
| LAN-153 | IT Security Essentials-Security+ | 4 |
| LAN-220 | Managing UNIX Environment | 3 |
| LAN-230 | Managing Windows Servers | 3 |
| LAN-251 | WLAN Design-CWNA | 3 |

$\dagger$ A minimum level of competency in mathematics is required for graduation for all A.A.S. degrees. This minimum competency may be demonstrated in one of two ways:

1. Placement in MTH-098 or higher; or
2. Successful completion of BUS-120, or MTH-095 or higher, or equivalent course at another college, with a grade of "C" or higher.

A pre- or corequisite may be required for some courses.

## LAN Technician

## Certificate-24 credit hours

## Curriculum Code 1419

This certificate prepares students for entry-level positions as a data communication specialist in the information technology profession. Common career titles include LAN specialist, LAN system administrator, LAN design specialist, LAN engineer, and many others. The LAN Technician certificate prepares students for rewarding careers at the forefront of the information technological revolution. Students will examine the installation, maintenance, repair, and design of local area networks. Students receive hands-on training in network operating systems, user administration, network security, and LAN switching and bridging design. This program also helps students prepare for $\mathrm{N}+$, CAN, MCP, and CCNA certification. Graduates of this program possess a wide range of product knowledge as well as hands-on experience in hardware and software installation and support.

Required Career Courses-24 credits as follows:
LAN-101 Orientation to IT Professions 1
LAN-103 Security Awareness 1
LAN-111 IT Essentials-A+ 3
LAN-112 Managing IT-A+ 3
LAN-121 Network Essentials-Network+ 3
LAN-122 Network Services 4
LAN-220 Managing UNIX Environments 3
LAN-230 Managing Windows Servers 3
LAN-251 WLAN Design-CWNA 3

A pre- or corequisite may be required for some courses.

## Digital Art/Design

## This program consists of one degree.

## A.A.S. Degree-66 credit hours

## Curriculum Code 1428

This program prepares students for a career as a graphic artist/designer in information technology industries related to the visual arts. Students obtain a solid theoretical foundation in traditional art and design, in addition to developing advanced skills in Macintosh hardware and software for quality computer graphics and design production.
Employment of graphic artists is expected to grow faster than the average for all occupations. Demand will be strong as producers of information, goods and services place even more emphasis on visual appeal in product design, advertising, marketing, and television. Further, the demand for Web page design, as well as the increasing need for visually appealing business products, also will spur employment of graphic artists.

Required General Education Courses-19 credits as follows:
COM-101 Composition I
COM-103 Speech Fundamentals
Select 3 credits from Humanities and Fine Arts: ART-205, ART-206, ART-208, ART-209 or HUM, MUS, PHI, THE
Select 3 credits from Mathematics: BUS-120, MTH-095 or higher
Select 4 credits from Science: BIO, CHM, EAS, GEL,
NAT, PHS, PHY
Select 3 credits from Social Science: ANT, ECO, GEO, HIS, PSC, PSY, SOC, SSC

3

Required Career Courses-38 credits as follows:
Art Core-15 credits as follows:

| ART-101 | Drawing I | 3 |
| :--- | :--- | :--- |
| ART-116 | Two-Dimensional Design | 3 |
| ART-118 | Three-Dimensional Design |  |
| or |  | 3 |
| ART-150 | Sculpture | 3 |
| ART-146 | Introduction to Computer Art | 3 |
| ART-160 | Introduction to Photography |  |

Digital Core-23 credits as follows:
ART-180 Digital Photography 3
ART-182 Digital Illustration 4
ART-184 Digital Imaging 4

ART-186 Digital Layout and Publishing 3
ART-230 Digital Design Internship 3
ART-232 Digital Portfolio Development
or
ART-246 Advanced Computer Art 3
ART-248 Web Page Layout 3

Electives-Select a minimum of 9 credits from the following:
ART-104 Drawing II 3

ART-105 Life Drawing 3
ART-110 Art Appreciation 3
ART-117 Color Theory 3
ART-118 Three-Dimensional Design 3
ART-120 Beginning Painting 3
ART-121 Watercolor Painting 3
ART-122 Intermediate Painting 3
ART-125 Ceramics I 3
ART-126 Ceramics II 3
ART-150 Sculpture 3
ART-161 Camera and Darkroom Techniques 3
ART-162 Photographic Design 3
ART-170 Printmaking 3
ART-203 History of Design 3
ART-205 Survey of Art I 3
ART-206 Survey of Art II 3
ART-207 Survey of American Art 3
ART-208 Survey of Art III 3
ART-209 Survey of Non-Western Art 3
ART-232 Digital Portfolio Development 3
ART-246 Advanced Computer Art 3
ART-248 Web Page Layout 3
ART-249 Intermediate Web Page Design 3
ART-280 Independent Studio: Drawing 3
ART-281 Independent Studio: Painting 3
ART-282 Independent Studio: Ceramics 3
ART-283 Independent Studio: Photography 3
ART-284 Independent Studio: Design 3
BUS-105 Small Business Management

## Criminal Justice

## This program consists of two degrees.

## A.A.S. Degree**-62 credit hours

## Curriculum Code 1260

This program prepares students for entry-level careers in the criminal justice system, including careers in policing, the courts and corrections. Employment of police officers is expected to grow faster than the average, while employment of correctional officers is expected to increase much faster than the average. Because of the attractive salaries and benefits, the number of qualified candidates exceeds the number of job openings in federal law enforcement agencies and in most state, local and special police departments, resulting in increased hiring standards and selectivity by employers.

Required General Education Courses-32 credits as follows:

| COM-101 | Composition I | 3 |
| :--- | :--- | :--- |
| COM-102 | Composition II | 3 |
| COM-103 | Speech Fundamentals | 3 |
| PSC-110 | American National Government | 3 |
| PSY-101 | Introduction to Psychology | 3 |
| SOC-101 | General Sociology | 3 |
| Select eight credits from BIO, CHM, EAS, GEL, |  |  |
| NAT, PHS, PHY, or MTH-098 or above |  |  |
| (two lab science courses recommended) | 8 |  |
| Select six credits from ARB, ART, FRE, GER, HUM, JPN, |  |  |
| LIT, MUS, PHI, SPA, THE | 6 |  |
| Required Career Courses-24 credits as follows: |  |  |
| CRJ-101 | Introduction to Criminal Justice | 3 |
| CRJ-103 | Police in American Society | 3 |
| CRJ-104 | Investigation and Criminal Evidence | 3 |
| CRJ-105 | Criminology | 3 |
| CRJ-106 | Introduction to Corrections | 3 |
| CRJ-107 | Juvenile Delinquency and Procedures | 3 |
| CRJ-206 | Substantive Criminal Law | 3 |
| CRJ-207 | Procedural Criminal Law | 3 |

Electives-Select six credits from the following course groups or specific courses:*

ADC-230 Special Topics in Addiction Studies 1
BUS-142 Financial Accounting 4
CRJ-110 Introduction to Homeland Security 3
CRJ-210 Special Topics in Criminal Justice 1
CRJ-219 Contemporary Issues: Criminal Justice 2
CRJ-233 Internship 3
CRJ-237 Seminar 1
EMS-100 First Responder 2
EMS-101 Emergency Medical Technician 8
IMS-115 Introduction to PC Applications 3
MTH-120 General Education Mathematics, or MTH-139 or MTH-141
SLP (any Security Services)
$\dagger$ A minimum level of competency in mathematics is required for graduation for all A.A.S.
degrees. This minimum competency may be demonstrated in one of two ways:

1. Placement in MTH-098 or higher; or
2. Successful completion of BUS-120, or MTH-095 or higher, or equivalent course at another college, with a grade of " C " or higher.
*In addition, any course that fulfills the general education requirement for an A.A. degree can be taken as an elective. See the Transfer Programs section in the catalog for more information.
** Students may be able to receive an A.A. (Associate in Arts) degree with their A.A.S. degree. Refer to the A.A. degree graduation requirements or contact an academic advisor. Students also may consult page 50 for the Illinois Articulation Initiative (IAI) recommended curriculum in criminal justice.
[^16]
## Culinary Arts Management

## This program consists of one degree and two certificates.

## A.A.S. Degree-66 credit hours

## Curriculum Code 1324

The Culinary Arts Management curriculum is designed to provide small business management training essential to effective culinary arts management in the hospitality industry. Graduates will be able to oversee any food service operation, including hotel, health care, cruise ship, catering, and manufacturing; and will have expertise in menu planning, controls, marketing, nutrition, sanitation, and food preparation and production. The A.A.S. degree prepares students for entry- to mid-level positions within the hospitality industry.

Employment of chefs, cooks and other kitchen workers is expected to increase by 6\% through 2018. Employment in restaurants is expected to grow rapidly as the average age of the population increases and demand for restaurant services and varied menus increases. Thus, more highly skilled chefs and cooks will be needed. Employment of institutional and cafeteria chefs and cooks will grow about as fast as average, and will be concentrated in educational and health service sectors.

Required General Education Courses-22 credits as follows:
BUS-120 Business Mathematics (MTH-098 or above can be substituted. BUS-120 is a course for students not planning to transfer to a four-year school.)
COM-101
Composition I
COM-103 Speech Fundamentals
Principles of Macroeconomics
or
ECO-102 Principles of Microeconomics
Select three credits from GEO-101, 102; PSY-101, 104;
SOC-101; or SSC-101.
Select three credits from ARB, ART, FRE, GER, HUM, JPN, LIT, MUS, PHI, SPA, THE
Select four credits from BIO, CHM, EAS, GEL,
NAT, PHS, PHY, or MTH-098 or above
Required Career Courses-41 credits as follows:
RTM-100 Food Service Sanitation
RTM-101 Introduction to Hospitality Industry
RTM-102 Quantity Food Production I
RTM-202 Quantity Food Production II
RTM-203 Garde Manger
RTM-204 Quantity Food Production III
RTM-206 Menu Writing and Marketing
RTM-207 Food, Beverage and Equipment Purchasing
RTM-209 Baking/Pastry I
RTM-210 Nutrition for Food Service Managers
RTM-220 Concepts of Hospitality Cost Control
RTM-230 Hospitality Portfolio
RTM-231 Hospitality Supervision

Electives-Select three credits from the following:
BUS-142 Financial Accounting
IMS-115 Introduction to PC Applications 3
$\begin{array}{lll}\text { RTM-208 } & \text { Design and Maintenance of } \\ & \text { Food Service Facilities }\end{array}$
RTM-211 Baking/Pastry II 4
RTM-225 Banquet and Specialty Services 3
RTM-233 Hospitality Internship 3

## Baking/Pastry Arts

Certificate-30 credit hours
Curriculum Code 1323
Prepares students for entry-level positions in the baking/ pastry area of culinary arts.

Required Career Courses-27 credits as follows:
RTM-100 Food Service Sanitation 2
RTM-101 Introduction to Hospitality Industry 3
RTM-102 Quantity Food Production I 4
RTM-207 Food, Beverage and Equipment Purchasing 3
RTM-209 Baking/Pastry I 4
RTM-210 Nutrition for Food Service Managers 3
RTM-211 Baking/Pastry II 4
RTM-220 Concepts of Hospitality Cost Control 3
RTM-230 Hospitality Portfolio 1
Electives-Select three credits from the following:
RTM-206 Menu Writing and Marketing 3
RTM-231 Hospitality Supervision 3
RTM-233 Hospitality Internship 3

## Culinary Arts Management <br> Certificate- 34 credit hours <br> Curriculum Code 1322

Prepares students for entry-level positions in food production.
Required Career Courses-27 credits as follows:
RTM-100 Food Service Sanitation 2
RTM-101 Introduction to Hospitality Industry 3
RTM-102 Quantity Food Production I 4
RTM-202 Quantity Food Production II 4
RTM-207 Food, Beverage and Equipment Purchasing 3
RTM-209 Baking/Pastry I 4
RTM-210 Nutrition for Food Service Managers 3
RTM-220 Concepts of Hospitality Cost Control 3
RTM-230 Hospitality Portfolio 1
Electives—Select seven credits from the following:
RTM-203 Garde Manger
RTM-204 Quantity Food Production III 4
RTM-206 Menu Writing and Marketing 3
RTM-231 Hospitality Supervision 3
RTM-233 Hospitality Internship 3

## Electronic/Computer Controls Tech <br> This program consists of one degree and two certificates.

## A.A.S. Degree-63 credit hours

Curriculum Code 1281
This career path prepares students for entry-level positions as an electronic and computer control technician found in manufacturing, chemical plants, process control environments, packaging and automated warehouse environments. Electrical, electronic, industrial, PC, and PLC controls will be examined. Lab exercises simulate real-world problems that technicians confront on the job daily. Employment for electronic and computer technicians is expected to grow. New technologies and increased computer use will continue to stimulate the demand for such workers.
$\begin{array}{ll}\text { Required General Education Courses-18 credits as follows: } \\ \text { COM-101 } & \text { Composition I }\end{array}$
COM-103 Speech Fundamentals 3
Select 3 credits from Social/Behavioral Sciences: ANT, ECO,
GEO, HIS, PSC, PSY, SOC, SSC
3
Select 4 credits from Science: BIO, CHM, EAS, GEL, NAT, PHY, PHS
Select 3 credits from Humanities and Fine Arts: ARB, ART, FRE, GER, HUM, JPN, LIT, MUS, PHI, SPA, THE
MTH-133 Math for Industry
Required Career Courses-40 credits as follows:
ELT-101 Electricity and Electronics
ELT-102 Digital Logic/Solid State Devices
ELT-112 Computers for Industry
ELT-201 Industrial Controls
ELT-202 Advanced Industrial Controls
ELT-211 Introduction to PLCs
ELT-222 Advanced PLCs
IMM-101 Mechanical Systems I
IMM-110 Hydraulics
IMM-115 Pneumatics
LAN-102 Voice and Data Cabling
LAN-111 IT Essentials-A+
LAN-112 Managing IT-A+
LAN-121 Network Essentials-Network+

## Electronic Controls Technician

## Certificate-42 credit hours

Curriculum Code 1417
This program prepares students for entry-level positions working with controls found in process control environments. Industrial, electronic, PC, and PLC controls will be examined.

| Required Career Courses-42 credits as follows: |  |  |
| :--- | :--- | :--- |
| ELT-101 | Electricity and Electronics | 3 |
| ELT-102 | Digital Logic/Solid State Devices | 3 |
| ELT-112 | Computers for Industry | 1 |
| ELT-201 | Industrial Controls | 3 |
| ELT-202 | Advanced Industrial Controls | 3 |
| ELT-211 | Introduction to PLCs | 3 |
| ELT-222 | Advanced PLCs | 3 |
| IMM-101 | Mechanical Systems I | 3 |
| IMM-110 | Hydraulics | 3 |
| IMM-115 | Pneumatics | 3 |
| LAN-102 | Voice and Data Cabling | 3 |
| LAN-111 | IT Essentials-A+ | 3 |
| LAN-112 | Managing IT-A+ | 3 |
| LAN-121 | Network Essentials-Network+ | 3 |
| MTH-133 | Math for Industry | 2 |

## Electronics Technician

Certificate-18 credit hours
Curriculum Code 1282
This program prepares students for entry-level positions in electronics. These courses represent the required core courses for students pursuing an A.A.S. degree in Computer/Electronic Controls Tech, and Computer and Local Area Network Technician.

Required Career Courses-18 credits as follows:
ELT-101 Electricity and Electronics 3

ELT-102 Digital Logic/Solid State Devices 3
ELT-112 Computers for Industry 1
LAN-102 Voice and Data Cabling 3
LAN-111 IT Essentials-A+ 3
LAN-112 Managing IT-A+
MTH-133 Math for Industry 2

Electives-Select 5 credits from the following: HAC, IMM, IST, LAN, MDT, MIS, WLD

[^17]
## Emergency Medical Services

This program consists of one degree and one certificate.

## A.A.S. Degree-62 credit hours

## Curriculum Code 1332

## Program Description

The Emergency Medical Services A.A.S degree is designed for students intending to go into the public or private sector as EMT-Paramedics. Individual lives often depend on quick reaction and competent care of paramedics. Incidents as varied as auto accidents, heart attacks, slips and falls, childbirth, and gunshot wounds all require immediate medical attention. EMT-Paramedics provide these vital services as they care for and transport the sick and injured to a medical facility. The EMT-Paramedic provides the most extensive pre-hospital care, which includes administration of medications orally and intravenously, endotracheal intubation, and defibrillations of patients in lethal arrhythmias. The EMT-Paramedic is employed in a number of industries, including the private ambulance service, municipal fire department or facility responses on helicopters and fixed wing transport vehicles. The EMT-Paramedic may also take the National Registry Examination for Paramedics, which will permit a graduate flexibility when seeking employment opportunities.
Required General Education Courses - 19 Credit hours:

| COM-101 | Composition I | 3 |
| :--- | :--- | ---: |
| COM-103 | Speech Fundamentals | 3 |
| MTH | MTH- 098 or above | $3-4$ |

Select three credits from Humanities and Fine Arts: ARB, ART, FRE, GER, HUM, JPN, LIT, MUS, PHI, SPA,THE 3 Select three credits from Social/Behavioral Science: EAS, ECO, GEO, HIS, PSC, SOC, SSC 3
Select four credits from science: BIO, CHM, EAS, GEL, NAT, PHS, PHY 4
Required Career Courses - 38 Credit hours:

| EMS-102 | EMT Paramedic I | 9 |
| :--- | :--- | :--- |
| EMS-103 | EMT Paramedic II | 8 |
| EMS-104 | EMT Paramedic III | 8 |
| EMS- 233 | EMT Paramedic Internship | 5 |
| EMS-237 | EMT Paramedic Seminar | 5 |
| IMS-115 | Introduction to PC applications | 3 |

Elective Courses-Select 5 credits from the following:*

| ADC-230 | Special Topics in Addiction Studies | 1 |
| :--- | :--- | :--- |
| PEH-170 | First Aid | 3 |
| MRT-110 | Medical Terminology | 3 |

*In addition, any course that fulfills the general education requirement for an A.A. degree can be taken as an elective. See the Transfer Programs section in the catalog for more information.

Emergency Medical Services (EMT-P, Paramedic)<br>Certificate- 35 credit hours<br>Curriculum Code 1320

This program is for those who want to go into the public or private sector as paramedics. It can also be an alternative career path for those presently in the fire science field.

In addition to the standard college entrance requirements, students applying for admission to this program must meet the following criteria: (1) have a written recommendation for admission to the program from an affiliating agency that is willing to accept responsibility for the candidate's internship; and (2) possess valid/current Emergency Medical Technician (Level B) certification.

This certificate program is held at Advocate Christ Medical Center. Application to the program is made to The Center for Prehospital Care at Advocate Christ Medical Center.

Employment of EMTs is expected to grow much faster than the average, and competition for jobs will be keen in fire, police and rescue squad departments due to attractive pay, benefits and job security.

Required Career Courses-35 credits as follows:
EMS-102 EMT-Paramedic I 9
EMS-103 EMT-Paramedic II 8
EMS-104 EMT-Paramedic III 8
EMS-233 EMT-Paramedic-Internship 5
EMS-237 EMT-Paramedic-Seminar 5

## Fire Service Management

This program consists of one degree and one certificate.

## A.A.S. Degree-62 credit hours

## Curriculum Code 1262

This program prepares the student to meet fire service career development needs linked to the responsibilities of a company officer and higher positions.
Firefighters can expect to face considerable competition for available job openings. Reasons for such competition result from the low turnover of the profession, relatively high earnings, and the education requirements staying at high school level. Employment potential for Illinois firefighters is stable and some positions will result from replacement needs.
$\begin{array}{lll}\text { Required General } & \text { Education Courses-26 credits as follows: } \\ \text { COM-101 } & \text { Composition I } & 3 \\ \text { COM-103 } & \text { Speech Fundamentals } & 3 \\ \text { MTH } & \text { MTH-098 or above } & 3 \\ \text { Select six credits from ANT, ECO, GEO, HIS, PSC, PSY, SOC, SSC } & 6 \\ \text { Select eight credits from BIO, CHM, EAS, GEL, NAT, PHS, PHY } & 8 \\ \text { Select three credits from ARB, ART, FRE, GER, HUM, JPN, LIT, } & \\ \text { MUS, PHI, SPA, THE } & 3\end{array}$
$\begin{array}{cc}\text { Required Career Courses—27 credits as follows: } \\ \text { FIS-103 Fire Prevention Principles I } & 3\end{array}$
FIS-107 Fire Fighting Tactics and Strategy I 3
FIS-201 Fire Service Instructor I 3
FIS-202 Fire Service Instructor II
FIS-205 Fire Service Leadership I
FIS-207 Fire Fighting Tactics and Strategy II
FIS-209 Fire Service Leadership II
FIS-210 Fire Service Leadership III
FIS-211 Fire Service Leadership IV
Electives—Select 9 credits from the following:
BUS-226 Business Ethics
EMS-101 Emergency Medical Technician
FIS-101 Principles of Fire Science
FIS-104 Fire Protection Systems
FIS-105 Industrial Fire Protection
FIS-106 Fire Suppression Apparatus and Equipment
FIS-110 Hazardous Materials Awareness
FIS-111 Hazardous Materials Incident
FIS-112 Building Construction for Fire Safety 1
FIS-113 Technical Rescue Awareness
FIS-114 Technical Rescue Awareness
FIS-114 Fire Investigation
FIS-203 Fire Apparatus Engineer
FIS-204 Hazardous Materials Operations
FIS-206 Vehicle Rescue Operations
FIS-212 Fire Inspector I
FIS-213 Public Fire and Life Safety Educator 3
FIS-214 Fire Prevention Officer I (Module C) 3
IMS-101 Introduction to Computer Systems 3
OSA-100 Keyboarding I
PHI-111 Critical Thinking
PSY-202 Social Psychology
SLP-106 Crisis Management
SPA-115 Career Spanish for Health Care
SPA-116 Career Spanish for Health Care II 3

## Fire Service Operations

## This program consists of one degree.

## A.A.S. Degree-61 credit hours <br> \section*{Curriculum Code 1331}

This program is designed to help students to prepare for application to a Fire Academy program and for successful transfer to a relevant 4-year program.

Required General Education Courses-19 credit hours as follows

| COM-101 | Composition I | 3 |
| :--- | :--- | :--- |
| COM-103 | Speech Fundamentals | 3 |

MTH-098 Intermediate Algebra, or higher 3-4
Select three credits from ANT, ECO, GEO, HIS, PSC, PSY, SOC, SSC 3
Select four credits from BIO, CHM, EAS, GEL, MTH, JPN, PHS, PHY 4
Select three credits from ARB, ART, FRE, GRE, HUM, JPN, LIT, MUS, PHI, SPA, THE

Required Career Courses-33 credit hours as follows:
EMS-101 Emergency Medical Technician 8
FIS-116 Fire Department Special Services 1
FIS-204 Hazardous Materials Operations 3
FIS-215 Fire Academy I 3
FIS-216 Fire Academy II 3
FIS-217 Fire Academy III 3
FIS-218 Fire Academy IV 3
FIS-219 Fire Academy V 3
FIS-220 Fire Service Seminar 1
FIS-221 Fire Service Internship 2
PEH
Select three from PEH 105, 108, 138, \& 140
3

Career Elective Courses-Select 9 credits from the following:
FIS-101 Principles of Fire Science 3
FIS-104 Fire Protection Systems 3
FIS-105 Industrial Fire Protection 3
FIS-106 Apparatus and Equipment 3
FIS-112 Building Construction 3
FIS-114 Fire Investigation 3
IMS-115 Introduction to PC Applications 3
PEH-171 Healthy Lifestyles 3
PSY-202 Social Psychology 3
SLP-106 Crisis Management 3
SPA-115 Career Spanish for Health Care I 3
SPA-116 Career Spanish for Health Care II 3

[^18]
## Fitness Trainer

## This program consists of one certificate.

## Certificate-30 credit hours

Curriculum Code 1279
The fitness trainer certificate is a 30-credit-hour program designed for students who desire to integrate education of exercise science methodologies with practical training experience leading to national certification and a career in fitness. This program prepares students to pass national certifying exams and gain entry-level employment in the fitness field. The program coursework emphasizes the analysis of human movement (muscular/skeletal), theoretical applications and methodologies of physical activity.

As Americans have become more conscious of their health by being proactive through fitness, the need of fitness trainers has dramatically increased. People need a trusted professional to assess their fitness level, assist with setting goals, design an appropriate fitness program, and motivate them to complete the program and achieve their goals.

Required Career Courses-27 credits as follows:
PEH-160 Fundamentals of Human Movement 3
PEH-161 Fitness Methodology 4
PEH-162 Fitness Testing 3
PEH-163 Fitness Programming 3
PEH-164 Exercise for Special Populations 3
PEH-165 Fitness Business Skills and Promotion 3
PEH-172 Nutrition for Today 3
PEH-175 Teaching Group Fitness 2
REC-101 Recreation and Wellness Professions 3
Electives-Select 3 credits from the following:
BIO-115 Anatomy and Physiology 5

IMS-115 Introduction to PC Applications 3
PEH-107 Introduction to Group Fitness 1
PEH-120 Introduction to Body/Mind Fitness 1
PEH-141 Classic Cardio Fitness 1
PEH-142 Cardio Cross Training 1
PEH-143 Aerobics III (Life Fitness) 1
PEH-144 Dance Cardio Fitness 1
PEH-170 First Aid 3
PEH-171 A Healthy Lifestyle and You 3

## Gerontology

## This program consists of one certificate.

## Certificate-16 credit hours

Curriculum Code 1336
Gerontology is the study of aging. The population of people over the age of 65 is rapidly growing. Various fields such as health care, recreation, and fitness are responding to this surge in the senior population. This certificate is most appropriate for students who intend to pursue or who already hold positions that have substantial contact with aging populations. This certificate can stand on its own as training for jobs in a variety of settings such as adult day care, continuum care retirement communities, park districts, community centers, rehabilitation facilities, senior centers and much more. However, it is more often used as a supplement or additional training for those already in a related field who want to work more effectively with the senior population.

Required Career Courses-16 credits as follows:
GRN-101 Introduction to Gerontology Careers 3
GRN-102 Diversity in Aging 3
GRN-103 Public Policy and Aging 4
GRN-104 Aging and the Health Care System 3
GRN-105 Death and Dying 3

## Health Information Technology

This program consists of one degree and two certificates.

## A.A.S. Degree-66 credit hours <br> \section*{Curriculum Code 1244}

Moraine Valley's Health Information Technology Program prepares you for a career that places you right where the expanding arena of health care meets the cutting edge of technology. Health information technicians ensure the quality of medical records by verifying their completeness, accuracy and proper entry into computer systems. They also may use computer applications to assemble and analyze patient data for the purpose of improving patient care or controlling costs. Health information technicians (RHITs) often specialize in coding diagnoses and procedures in patient records for reimbursement and research. RHITs may serve as cancer registrars, compiling and maintaining data on cancer patients. The Health Information Technology Program is a two-year associate's degree program that integrates medical science, ICD-9-CM, ICD-10-CM/PCS and CPT coding systems, computer technology, and health care management.

## Accreditation

The Health Information Technology curriculum meets the basic requirements prescribed by the American Health Information Management Association. The program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM).

## Admission Requirements

See Admission to Allied Health and Nursing Career Programs in the Admission and Registration section of this catalog, page 13. Applicants not selected for one starting class are individually responsible for reactivating and updating their application file for subsequent starting classes. Re-applicants must complete a new application form and submit it to the Admissions Office during the applicable time period.
Transfer Students - Placement is considered on an individual basis.

## Certification

Upon completion of the program, graduates will be eligible to write the national registration exam given by the American Health Information Management Association. Successfully completing this exam allows the graduate to earn the credential RHIT (registered health information technician).

## Program Requirements

- Must earn a grade of "C" (2.0) or better in each required career course (theory and clinical)
- Are responsible for transportation to and from clinical affiliates
- Are responsible for submitting a completed health and physical form signed by a physician as well as a drug screen prior to their first clinical rotation
- Must provide documentation of yearly Mantoux results
- Are responsible for completing a criminal background check prior to acceptance in program. This will be at the student's expense.
- Are asked for proof of comprehensive health and accident insurance
- Are responsible for all program fees


## Program Calendar

For students who attend full time, this two-year program starts with the fall term and includes four semesters and one summer session. Part-time students may complete the general education courses prior to program enrollment. The required medical terminology, biology and mathematics courses must be completed within five years of program admission. Exceptions may be granted on an individual basis upon approval of the program coordinator. Required career courses must be taken in sequence.
Required General Education Courses-19 credits as follows:
BIO-115 Anatomy and Physiology 5
COM-101 Composition I 3
COM-103 Speech Fundamentals 3
MTH-109 Math for Allied Health 2
PSY-201 Industrial/Organizational Psychology 3
Select 3 credits from Social/Behavorial Sciences: ANT, ECO, GEO, HIS, PSY, PSC, SOC, SSC
Required Career Courses-47 credits as follows:
MRT-108 Intro to Medical Coding Systems 4

MRT-110 Medical Terminology 3
MRT-111 Health Information Management 4
MRT-112
MRT-114
MRT-115
MRT-116
MRT-119
MRT-125
MRT-130

## MRT-211

Health Statistics and Data Analysis

MRT-215 Clinical Practicum III 2
MRT-216 Clinical Practicum IV 5
MRT-218 Quality Management 2

[^19]
## Coding Specialist

Certificate-31 credit hours

## Curriculum Code 1431

This certificate program prepares students to become medical coding specialists and gain a working knowledge of ICD-9-CM, ICD-10-CM/PCS and CPT coding systems. Medical coders classify diagnoses and procedures into numerical format to be used for reimbursement, data quality and medical research. Coders develop a broad base of knowledge to enable the application of coding theory using medical terminology, disease process, surgical procedures, and pharmacology principles. Graduates may seek employment as coders, insurance billers, and reimbursement specialists. After completion of the certificate, students may choose to continue their education and earn the A.A.S. in health information technology. All coding certificate courses are applicable toward the A.A.S. degree. Approval: The Coding Specialist curriculum meets the basic requirements prescribed by the American Health Information Management Association and has been approved as a comprehensive coding program by AHIMA. Graduates may elect to write a credentialing exam which is administered by the American Health Information Management Association to become a Certified Coding Specialist (CCS) or Certified Coding Specialist—Physician Based (CCS-P).

Required Career Courses-31 credits as follows:
BIO-115 Anatomy and Physiology
MRT-108 Intro to Medical Coding Systems 5
MRT-111 Health Information Management
MRT-112 Clinical Classification Systems
MRT-113 Coding Specialist Clinical Practicum
MRT-119 Insurance Reimbursement Procedures
MRT-125 Pathophysiology and Pharmacology
MRT-130 Computers in Allied Health
MRT-212 Medical Reimbursement Systems

## Medical Transcription <br> Certificate-20 credit hours <br> Curriculum Code 1432

Medical transcriptionists are medical language specialists who transcribe dictation by physicians and other health care professionals regarding patient diagnosis, treatment and prognosis. They use state-of-the-art electronic equipment including voice recognition to transcribe a variety of medical reports that document patient care and facilitate delivery of health care services. Medical transcriptionists have a broad knowledge of medical terminology, anatomy and physiology, surgical procedures, medications, diagnostic tests and curative procedures, and medico-legal principles. They are a vital part of the health care system.

A wide variety of careers exists in the medical transcription field, such as working in doctors' offices, hospitals, outpatient diagnostic services, insurance companies, or transcription services. Opportunities abound for a self-starting individual who is interested in the medical field, has word processing skills, and who takes great pride in efficiency and accuracy. Upon completion of this program, a graduate may wish to become a Registered Medical Transcriptionist (RMT) by passing the national registry exam given by the American Association of Medical Transcription (AAMT).

Required Career Courses-20 credits as follows:
MRT-105 Beginning Medical Transcription 3
MRT-106 Advanced Medical Transcription 3
MRT-107 Med. Transcription Clinical Practicum 2
MRT-110 Medical Terminology 3
MRT-111 Health Information Management
MRT-125 Pathople 4
MRT-130 Computers in Allied Health 1

## Medical Billing

## Certificate-10 credit hours

## Curriculum Code 1440

The medical billing program prepares students for employment as medical billers, patient account representatives, and data entry specialists. Graduates will acquire a general knowledge of the healthcare field with a focus on being able to understand and code medical diagnoses and procedures and to bill accurately and ethically.

Graduates can be employed by physician's offices and clinics, medical group practices, managed care companies, insurance companies and other health care providers.

A medical biller's job responsibilities can include healthcare billing, processing, adjusting and resubmitting of claims, adherence to current healthcare industry regulations and policies, and compliance with insurance procedures and alloted benefit coverage.

After completion of this certificate, students may choose to continue their education and earn a Coding Specialist Certificate. All courses, except keyboarding, are applicable to the Coding Specialist Certificate program.

Required Career Courses-10 credits as follows:
MRT-108 Intro to Medical Coding Systems 4
MRT-110 Medical Terminology 3
MRT-119 Insurance Reimbursement Procedures 1
MRT-130 Computers in Allied Health 1
OSA-100 Keyboarding I 1

## Heating and Air Conditioning <br> This program consists of five certificates.

## Certificate-34 credit hours

Curriculum Code 1215
This program prepares students for entry-level positions in the heating and air conditioning service and installation industry.
The employment potential for heating, air conditioning and refrigeration technicians is favorable and expected to increase as fast as the average. Concern for the environment and energy conservation should continue to prompt the development of new energy-saving heating and air-conditioning systems. Also, the demand for maintenance and service work should increase as businesses and homeowners strive to keep systems operating at peak efficiency.
Required General Education Courses-7 credits as follows:

$$
\begin{array}{ll} 
& \text { COM-101 }
\end{array} \quad \text { Composition I }
$$

Required Career Courses-23 credits as follows: HAC-105 Air Conditioning Theory HAC-111 Introduction to Controls HAC-115 Basic Service Procedures HAC-150 Advanced Control Systems HAC-154 Installation and Service HAC-158 Introduction to Heating
Electives-Select 4 credits from the following:
HAC-140 Sheet Metal Hand Forming 4

HAC-180 Electronic Controls 4
HAC-233 Seminar 1
HAC-237 Internship
3
**Higher-level MTH course may be substituted. Course work below the 100 level does not earn transfer credit.

## Advanced Air Conditioning Technician <br> Certificate-16 credit hours <br> Curriculum Code 1454

This program prepares the student for an advanced career as a heating, air conditioning, and refrigeration mechanic, installer, or service representative.

Required Career Courses-16 credits as follows:
HAC-150 Advanced Control Systems
HAC-154 Installation and Service
HAC-158 Introduction to Heating
HAC-180 Electronic Controls

## Basic Air Conditioning Technician

## Certificate-19 credit hours

Curriculum Code 1453
This program prepares the student for a beginning career as a heating, air conditioning, and refrigeration mechanic, installer, or service representative.

| Required Career Courses-19 credits as follows: |  |  |
| :---: | :--- | :--- |
| HAC-105 | Air Conditioning Theory | 3 |
| HAC-111 | Introduction to Controls | 4 |
| HAC-115 | Basic Service Procedures | 4 |
| HAC-140 | Sheet Metal Hand Forming | 4 |
| HAC-154 | Installation and Service | 4 |

## Electrical Troubleshooting

## Certificate-15 credit hours

Curriculum Code 1452
This program prepares the student for a career as a heating, air conditioning, and refrigeration mechanic or service representative.

| Required Career Courses—15 credits as follows: |  |  |
| :---: | :--- | :--- |
| HAC-105 | Air Conditioning Theory | 3 |
| HAC-111 | Introduction to Controls | 4 |
| HAC-150 | Advanced Control Systems | 4 |
| HAC-180 | Electronic Controls | 4 |

## Commercial Systems Service Tech <br> Certificate-13 credit hours

Curriculum Code 1337
This program combines both lecture and hands-on components for commercial heating, air conditioning, and refrigeration maintenance and installation training. The certificate will serve students who are currently in the field and can demonstrate advanced proficiency or those students who have completed the courses necessary for Advanced Air Conditioning Tech Certificate. The Commercial Systems courses deliver advanced content that is not appropriate for students who have not had the initial training on residential equipment. Students will be trained on commercial equipment and will use advanced digital controls like those found in large commercial buildings or multi-building campuses.

Required Career Courses-13 credits as follows:
HAC-250 Commercial Systems Operations 5
HAC-260 Chiller Plant Operations 4
HAC-270 Boiler Power Plant Operations 4

## Human Resources Management

This program consists of one degree and one certificate.

## A.A.S. Degree-62 credit hours

## Curriculum Code 1412

This program is designed to prepare students for the operations, control, training, and development of personnel in the workplace. It examines the process of employee recruitment, selection and placement of individuals for appropriate areas of employment, equal opportunity, staffing, training, evaluations, maintaining the organization, and rewards. This program includes an internship/ seminar component.
According to the U.S. Department of Labor, the job market for human resources specialists and trainers is expected to grow much faster than average through the year 2018.
Required General Education Courses-19 credits as follows:

| BUS-120  <br> or  <br> MTH-120 Business Mathematics <br> or above General Education Mathematics (recommended <br> COM-101 for transfer students) |  |  |
| :--- | :--- | :--- |
| COM-103 | Composition I | 3 |
| ECO-101 | Speech Fundamentals | 3 |
| Four credits from BIO, CHM, EAS, GEL, NAT, PHS, PHY, | 3 |  |
| or MTH-098 or above | 3 |  |
| Three credits from ARB, ART, FRE, GER, HUM, JPN, LIT, |  |  |
| MUS, PHI, SPA, THE | 4 |  |
| Required Career Courses-34 credits as follows: |  |  |
| BUS-100 | Introduction to Business | 3 |
| BUS-110 | Legal Environment in Business |  |
| or |  | 3 |
| BUS-136 | Business Law |  |
| BUS-135 | Personal Finance | 3 |
| BUS-142 | Financial Accounting | 2 |
| BUS-170 | Introduction to Human Resources | 4 |
| BUS-215 | Employee Training and Development | 3 |
| BUS-226 | Business Ethics | 3 |
| BUS-231 | Principles of Management | 3 |
| BUS-232 | Human Resources Management | 3 |
| BUS-233 | Internship | 3 |
| BUS-237 | Seminar | 3 |
| IMS-115 | Introduction to PC Applications | 3 |

Electives-Select 9 credit hours from the following:
BUS-105 Small Business Management 4
BUS-134 International Business 3
BUS-143 Managerial Accounting 4
BUS-145 Computer Applications in Accounting 3
BUS-200 Consumer Behavior 3
BUS-230 Advertising 3
MIS-111 Internet Technologies 3
OSA-122 Electronic Spreadsheets 3
OSA-230 Business Presentations 3
OSA-232 Desktop Publishing 3
OSA-257 Database Management 3
PSY-201 Industrial/Organizational Psychology 3

## Employee Training and Development <br> Certificate-30 credit hours <br> Curriculum Code 1413

This program prepares students for careers in human resources with an emphasis on training and development of staff. Students already employed are encouraged to take this program to update their skills and enhance promotion opportunities.
Required Career Courses-24 credits as follows:
BUS-100 Introduction to Business 3
BUS-170 Introduction to Human Resources 3
BUS-215 Employee Training and Development 3
BUS-226 Business Ethics 3
BUS-232 Human Resources Management 3
IMS-115 Introduction to PC Applications 3
MIS-111 Internet Technologies 3
OSA-230 Business Presentations 3
Electives-Select 6 credits from the following:
BUS-134 International Business 3
BUS-231 Principles of Management 3
OSA-122 Electronic Spreadsheets 3
OSA-257 Database Management 3
PSY-201 Industrial/Organizational Psychology 3

## Integrated Systems Technology

This program consists of one degree.

## A.A.S. Degree-63 credit hours

## Curriculum Code 1403

This career path prepares students for entry-level positions as electrical and mechanical technicians found in bakeries, manufacturing, chemical plants and material handling and automated warehouse environments. IST workers maintain, calibrate, and repair the electrical, mechanical, and electronic equipment found in today's industrial environments. This program involves cross-training in these areas of multiple, integrated systems.

| Required General |  | Education Courses—18 credits as follows: |
| :--- | :--- | :--- |
| COM-101 | Composition I | 3 |
| COM-103 | Speech Fundamentals | 3 |
| Select 3 credits from Social/Behavioral Sciences: ANT, ECO, |  |  |
| GEO, HIS, PSC, PSY, SOC, SSC |  |  |
| Select 4 credits from Science: BIO, CHM, EAS, GEL, NAT, | 3 |  |
| PHY, PHS |  | 4 |
| Select 3 credits from Humanities and Fine Arts: ARB, ART, FRE, |  |  |
| GER, HUM, JPN, LIT, MUS, PHI, SPA, THE | 3 |  |
| MTH-133 | Math for Industry | 2 |
| Required Career Courses-42 credits as follows: |  |  |
| ELT-101 | Electricity and Electronics |  |
| ELT-102 | Digital Logic/Solid State Devices | 3 |
| ELT-112 | Computers for Industry | 3 |
| ELT-201 | Industrial Controls | 1 |
| ELT-202 | Advanced Industrial Controls | 3 |
| ELT-211 | Introduction to PLCs | 3 |
| ELT-222 | Advanced PLCs | 3 |
| IMM-101 | Mechanical Systems I | 3 |
| IMM-103 | Machinery Moving and Set-Up | 3 |
| IMM-107 | Mechanical Systems II | 3 |
| IMM-110 | Hydraulics | 3 |
| IMM-115 | Pneumatics | 3 |
| IST-101 | Introduction to Machine Tools | 3 |
| IST-109 | Prints for Industry | 3 |
| IST-111 | Threading, Milling and Grinding | 3 |

Electives—Select 3 credits from the following Career area electives: HAC, IMM, LAN, MDT, MIS, WLD

## IT Security Specialist

This program consists of one degree and one certificate.

## A.A.S. Degree-63 credit hours

## Curriculum Code 1420

This certificate is designed to provide a comprehensive program to develop a skilled workforce in the emerging field of information technology security. Managing information security programs consists of preserving information confidentiality and protection, risk management, data and system integrity, availability, authenticity, and utility. The program is based on information security concepts, principles, methods, techniques, practices, and procedures that guide today's IT security professionals. This program prepares graduates to become employed as IT security specialists, firewall and VPN specialists, and data assurance specialists. Additionally, the program concentrates on industry-specific requirements in the health care and financial areas, as well as other institutions that currently use electronic commerce.

The degree program is designed with an IT Security core curriculum combined with a set of fundamental IT courses. In addition, the program requires the completion of a traditional group of general education courses.
Required General Education Courses-18 credits as follows:
COM-101 Composition I
COM-103 Speech Fundamentals
3
Select 3 credits from Social/Behavioral Sciences: ANT, ECO, GEO, HIS, PSC, PSY, SOC, SSC
$\dagger$ Select 6 credits from Science/Math: BIO, CHM, EAS, GEL, NAT, PHY, PHS, or MTH-098 or above
Select 3 credits from Humanities/Language: ARB, ART, FRE, GER, HUM, JPN, LIT, MUS, PHI, SPA, THE
Required Career Courses- 45 credits as follows:
Core IT Technology Track-18 credits as follows:
LAN-101 Orientation to IT Professions
LAN-103 Security Awareness
LAN-111 IT Essentials-A+
LAN-112 Managing IT-A+
LAN-121 Network Essentials-Network+
LAN-122 Network Services
LAN-246 Routing and Switching-CCNA
Voice and Data Specialty Track—15 credits as follows:
LAN-143 Digital Forensics

LAN-153 IT Security Essentials-Security+
LAN-163 IT Security Practices SCNP
LAN-253 Managing Network Security I
LAN-273 Network Security Design
Electives-Select 12 credit hours from the following:
LAN-220 Managing UNIX Environments 3

LAN-230 Managing Windows Servers 3
LAN-243 Computer Forensics 3
LAN-251 WLAN Design-CWNA 3
LAN-256 LAN Design-CCNA 3
LAN-260 Internship 3
LAN-266 WAN Design-CCNA 3
LAN-269 Advanced Routing 3

LAN-271 Multi-Layer Switch Design 3
LAN-272 Optimizing Converged Networks 3
LAN-280 High Availability Virtualization 3
$\dagger$ A minimum level of competency in mathematics is required for graduation for all A.A.S. degrees. This minimum competency may be demonstrated in one of two ways:

1. Placement in MTH-098 or higher; or
2. Successful completion of BUS-120, or MTH-095 or higher, or equivalent course at another college, with a grade of " C " or higher.

## Network Security Specialist

## Certificate-36 credit hours

Curriculum Code 1424
This certificate is designed to provide a comprehensive program to develop a skilled workforce in the emerging field of information technology security. Managing information security programs consists of preserving information confidentiality and protection, risk management, data and system integrity, availability, authenticity, and utility. The program is based on information security concepts, principles, methods, techniques, practices, and procedures that guide today's IT security professionals. This program prepares graduates to become employed as IT security specialists, firewall and VPN specialists, and data assurance specialists. Additionally, the program concentrates on industry-specific requirements in the health care and financial areas, as well as other institutions that currently use electronic commerce.
The certificate is designed for professionals returning to upgrade skills or students who are interested in obtaining employment skills in IT security professions. The certificate can be completed as a student progresses through the degree program.

Required Career Courses-36 credits as follows:
LAN-101 Orientation to IT Professions 1
LAN-103 Security Awareness 1
LAN-111 IT Essentials-A+ 3
LAN-112 Managing IT-A+ 3
LAN-121 Network Essentials-Network+ 3
LAN-122 Network Services 4
LAN-143 Digital Forensics 3
LAN-153 IT Security Essentials-Security+ 3
LAN-163 IT Security Practices SCNP 3
LAN-243 Computer Forensics 3
LAN-251 WLAN Design-CWNA 3
LAN-253 Managing Network Security I 3
LAN-273 Network Security Design 3

A pre- or corequisite may be required for some courses.

## Management Information Systems

This program consists of one degree and 11 certificates.

## A.A.S. Degree-64 credit hours

## Curriculum Code 1206

This program prepares students for pursuit of careers in information technology. Graduates qualify for management information systems support staff positions such as applications trainers, technical support staff, software support staff, and programming and Web applications trainees.

Students may specialize in various information technology areas, including e-commerce, Web, or applications development. Students will use state-of-the-art technology to complete their coursework.
Students with work experience and advanced skills should contact the internship coordinator for assessment and course substitution information. Students without prerequisite skills are expected to take the necessary additional courses. An important feature of this program is the internship component where students seek on-the-job training in a professional setting. Students wishing to enroll in the internship should contact the internship coordinator prior to enrollment.

According to the Bureau of Labor Statistics Occupational Outlook Handbook, employment in information technology careers is expected to grow faster than the average through 2018. Management information systems jobs should be plentiful in information services department and businesses. Information technology skills are needed in all industries.
$\begin{array}{lll}\text { Required General Education Courses—16 credits as follows: } \\ \text { COM-101 } & \text { Composition I } & 3 \\ \text { COM-103 } & \text { Speech Fundamentals } & 3 \\ \text { Select three credits from ANT, ARB, ART, ECO, FRE, GEO, GER, } \\ \text { HIS, HUM, JPN, LIT, MUS, PHI, PSC, PSY, SOC, SPA, SSC, THE } & 3 \\ \text { BUS-120 } & \text { Business Mathematics } \\ \text { or } & \\ \text { MTH-120 } & \text { General Education Mathematics } & \\ \text { Select four credits from BIO, CHM, EAS, GEL, NAT, PHY, PHS } & 3 \\ & 4 \\ \text { Required Career } & \\ \text { IMS-101 } & & \\ \text { orses-21 credits as follows: } & \\ \text { IMS-115 } & \text { Introduction to Computer Systems } & \\ \text { MIS-105 } & \text { Introduction to PC Applications } & \\ \text { MIS-111 } & \text { Programming Principles } & 3 \\ \text { MIS-121 } & \text { Internet Technologies } & 3 \\ \text { MIS-123 } & \text { Networking for Business } & 3 \\ \text { MIS-146 } & \text { Database Design } & 3 \\ \text { MIS-295 } & \text { Internship Systems } & 3 \\ & & 3\end{array}$

## Concentrations

Students may select from Application Development, E-Commerce, or Web Development

## Application Development <br> Required Special Career Courses-9 credits as follows:

MIS-210 Project Management 3
MIS-291 Systems Analysis and Design 3
MIS-292 SQL/Database Applications 3
Choose one track ( 9 credit hours):
Visual Basic.NET Programmer Track (9 credit hours)*
MIS-139 VB.NET Programming I
MIS-239 VB.NET Programming II 3
MIS-285 ASP.NET Web Applications
or
MIS-289 .NET Desktop Application Development 3
$\begin{array}{ll}\text { C\# Programmer Track (9 credit hours)* } \\ \text { MIS-154 C\# Programming I } & 3\end{array}$
MIS-254 C\# Programming II 3
MIS-285 ASP.NET Web Applications
or
MIS-289 .NET Desktop Application Development
$\begin{array}{lll}\text { Java Programmer Track (9 credit hours) } \\ \text { MIS-176 Java Programming I } & 3\end{array}$
MIS-276 Java Programming II 3
MIS-283 Java Web Applications
or
MIS-286 Java Software Development 3
$\begin{array}{lll}\text { C++ Programmer Track (9 credit hours) } & \\ \text { MIS-160 } & \text { C++ Programming I } & 3\end{array}$
MIS-261 C++ Programming II 3
MIS-264 C++ Software Development 3
RPG Programmer Track (9 credit hours)
MIS-120 RPG Programming I 3
MIS-220 RPG Programming II 3
MIS-221 Interactive Programming for RPG 3
Choose another track**** (6 credit hours not duplicating selections from the prior track):
Visual Basic.NET Programming Track (6 credit hours)*
MIS-139 VB.NET Programming I

MIS-239 VB.NET Programming II 3
C\# Programming Track (6 credit hours)*
MIS-154 C\# Programming I
MIS-254 C\# Programming II 3
$\begin{array}{ll}\text { Java Programming Track (6 credit hours) } \\ \text { MIS-176 Java Programming I } & 3\end{array}$
MIS-276 Java Programming II 3
$\begin{array}{ll}\text { C++ Programming Track (6 credit hours) } \\ \text { MIS-160 C++ Programming I } & 3\end{array}$
MIS-261 C++ Programming II 3
RPG Programming Track (6 credit hours)
MIS-120 RPG Programming I
MIS-220 RPG Programming II 3
Web Client Scripting Track (6 credit hours)
MIS-141 Web Page Authoring and Publishing 3
MIS-241 Advanced Web Page Authoring 3
$\begin{array}{lrl}\text { E-Commerce Development Track (6 credit hours) } \\ \text { MIS-197 E-Commerce Development } & 3\end{array}$
$\begin{array}{lll}\text { MIS-297 } & \text { Data-Driven Websites } & 3 \\ & \end{array}$

| Web Design | Track (6 credit hours) |  |
| :--- | :--- | :--- |
| OSA-125 | Introduction to Website Design | 3 |
| OSA-135 | Website Applications | 3 |
| Web Development Track (6 credit hours) |  |  |
| MIS-251 | ColdFusion Programming | 3 |
| MIS-297 | Data-Driven Websites | 3 |

Electives-Select 3 credit hours that have not been selected above:
MIS-120 RPG Programming I 3

MIS-139 VB.NET Programming I 3
MIS-141 Web Page Authoring and Publishing 3
MIS-154 C\# Programming I 3
MIS-160 C++ Programming I 3
MIS-176 Java Programming I 3
MIS-197 E-Commerce Development 3
MIS-199 Special Short Topics in Technology*** 1
MIS-200 Special Topics in Technology*** 3
MIS-221 Interactive Programming for RPG 3
MIS-251 ColdFusion Programming 3
MIS-259 Flash ActionScript
MIS-264 C++ Software Development
MIS-283 Java Web Applications
MIS-284 XML.NET Web Services
MIS-285 ASP.NET Web Applications
MIS-286 Java Software Development
MIS-287 Visual Basic for Applications**
MIS-289 .NET Desktop Application Development
MIS-297 Data-Driven Websites
OSA-125 Introduction to Website Design
OSA-135 Website Applications
OSA-234 Inroduction to PC Graphics
OSA-236 PC Graphics Applications
*NOTE: Students pursuing VB.NET (or C\#) in one track may not choose C\# (or VB.NET) in the other track.
**NOTE: MIS-287 is a recommended elective for students who select the VB.NET Track.
***NOTE: MIS-199 and MIS-200 can be repeated up to three times for credit as long as different topics are selected.
****NOTE: Courses from each track can be pursued simultaneously.

E-Commerce - 27 credits as follows:
Required Special Career Courses-27 credits as follows:
MIS-141 Web Page Authoring and Publishing 3
MIS-197 E-Commerce Development 3
MIS-210 Project Management
or
MIS-291 Systems Analysis and Design 3
MIS-292 SQL/Database Applications 3
MIS-297 Data-Driven Websites 3
MIS-298 E-Commerce Policy and Strategy 3
OSA-135 Website Applications 3
Select 6 credits from BUS 6

Web Development
Required Special Career Courses-18 credits as follows:
OSA-125* Introduction to Website Design
or
OSA-135* Website Applications 3
MIS-141 Web Page Authoring and Publishing 3
MIS-241 Advanced Web Page Authoring 3
MIS-292 SQL/Database Applications 3
Choose 6 credits (one must be an MIS course) from:
MIS-210, MIS-291, BUS-105, BUS-130, BUS-131,
BUS-134, BUS-136, BUS-200, BUS-230, BUS-231 6
Choose one track ( 9 credit hours):
Java Programmer Track (9 credit hours)
MIS-176 Java Programming I 3
MIS-276 Java Programming II 3
MIS-283 Java Web Applications 3
$\begin{array}{ll}\text { C\# Programmer Track (9 credit hours) } \\ \text { MIS-154 C\# Programming I } & 3\end{array}$
MIS-254 C\# Programming II 3
MIS-285 ASP.NET Web Applications 3
Visual Basic .NET Programmer Track (9 credit hours)
MIS-139 VB.NET Programming I
MIS-239 VB.NET Programming II 3
MIS-285 ASP.NET Web Applications 3
Multimedia Programmer Track (9 credit hours)
MIS-259 Flash ActionScript 3
MIS-251 ColdFusion Programming 3
MIS-297 Data-Driven Websites 3
*NOTE: OSA-125 is recommended for students pursuing the VB.NET or C\# Programmer Tracks; OSA-135 is recommended for students pursuing the Java or Multimedia Programmer Tracks

## C++ Programmer

## Certificate-18 credit hours

## Curriculum Code 1459

This program prepares students with programming skills that will, when combined with a degree, provide the background for entrylevel or trainee positions or enhance an information technology professional's versatility and career advancement potential.
C++ is the primary language of choice when performance is critical. Designed as a general-purpose, cross-platform language, $\mathrm{C}++$ can be used to write a wide variety of applications for many of today's popular operating systems, including Windows, Unix and Linux. C++ offers the tools necessary to develop object-oriented skills that will be in demand for years. Within this certificate's courses you will learn the latest in software design and development methodologies while gaining hands-on experience with the latest versions of $\mathrm{C}++$.

Required Career Courses-18 credits as follows:
IMS-101 Introduction to Computer Systems
or
IMS-115 Introduction to PC Applications 3
MIS-105 Programming Principles 3
MIS-123 Database Design 3
MIS-160 C++ Programming I 3
MIS-261 C++ Programming II 3
MIS-264 C++ Software Development 3

## C\# Programmer

## Certificate-18 credit hours

## Curriculum Code 1466

This program prepares students with programming skills that will, when combined with a degree, provide the background for entrylevel or trainee positions or enhance an information technology professional's versatility and career advancement potential.
C\# is a language similar to C++ and Java while utilizing a drag-and-drop development environment more commonly found in Visual Basic. The result is a tool that allows for the rapid development of desktop, PDA, data-driven Web applications using state-of-the-art object-oriented techniques. Within this certificate's courses, you will learn the latest in software design and development methodologies while gaining hands-on experience with the latest versions of Visual C\#.
Required Career Courses-18 credits as follows:
IMS-101 Introduction to Computer Systems
or
IMS-115 Introduction to PC Applications 3
MIS-105 Programming Principles 3
MIS-123 Database Design 3
MIS-154 C\# Programming I 3
MIS-254 C\# Programming II 3
MIS-285 ASP .NET Web Applications 3
or
MIS-289 .NET Desktop Application Development 3

## E-Commerce Assistant <br> Certificate-36 credit hours <br> Curriculum Code 1460

This program prepares students to assist in the development and management of electronic commerce Web sites. E-Commerce has become a major objective of most midto large-size companies as well as small companies. E-Commerce includes the knowledge of business principles as well as Web development, database design, and infrastructures. Demand for people with e-commerce skills will continue to grow as businesses continue to expand their use of electronic technology.

```
Required Career Courses-36 credit hours as follows:
    Select six credits from BUS-105, BUS-130, BUS-131,
    BUS-134, BUS-136, BUS-200, BUS-230, BUS-231
    IMS-101 Introduction to Computer Systems
    or
    IMS-115 Introduction to PC Applications
    MIS-111 Internet Technologies
    MIS-123 Database Design
    MIS-141 Web Page Authoring and Publishing
    MIS-197 E-Commerce Development
    MIS-210 Project Management
    or
    MIS-291
    IS-292
    MIS-297 Data-Driven Websites
    MIS-298 E-Commerce Policy and Strategy
    OSA-135 Website Applications
```


## Multimedia Designer

## Certificate-21 credit hours

## Curriculum Code 1342

This program prepares students to work in the fields of multimedia design. Students will receive training in the digital media, design, visual effects and motion graphics, animation, production development, production, and communication and information technology. Students will learn about production, editing, layout design. Jobs in multimedia design can be found in career fields such as television or film production, animation, audio production, and set design, as well as several other multimedia and production design fields.

Required career courses-21 credit hours as follows:
MIS-141 Web Page Authoring and Publishing
MIS-259 Flash ActionScript
OSA-135 Website Applications
OSA-138 Introduction to Digital Video 3
OSA-234 Introduction to PC Graphics 3
OSA-236 PC Graphics Applications 3
OSA-238 Advanced Digital Video 3

## Java Programmer <br> Certificate-18 credit hours <br> Curriculum Code 1458

This program prepares students with programming skills that will, when combined with a degree, provide the background for entrylevel or trainee positions or enhance an information technology professional's versatility and career advancement potential.
Because Java was designed for the Internet, it has been a popular choice for writing programs that are platform independent and safe. Java remains popular for network programming and web development. More recently, object-oriented features in the language have made Java a competitive option for writing stand-alone applications. Within this certificate's courses you will learn the latest in software design and development methodologies while gaining hands-on experience with the latest versions of Java.

| Required Career Courses—18 credits as follows: |  |  |
| :--- | :--- | :--- |
| IMS-101 | Introduction to Computer Systems |  |
| or |  |  |
| IMS-115 | Introduction to PC Applications | 3 |
| MIS-105 | Programming Principles | 3 |
| MIS-123 | Database Design | 3 |
| MIS-176 | Java Programming I | 3 |
| MIS-276 | Java Programming II | 3 |
| MIS-283 | Java Web Applications |  |
| or |  |  |
| MIS-286 | Java Software Development | 3 |

## RPG Programmer

## Certificate-18 credit hours

Curriculum Code 1233
This certificate prepares students to program in RPG IV on the IBM System I. According to search400.com, RPG skills will be in demand for a long while to come. Since most employers are looking for programmers with skills in other areas in addition to a strong RPG skill set, the e-Commerce Assistant, Software Developer and Business Skills certificates would be excellent complements to this certificate.

Required Career Courses-18 credits as follows:
IMS-101 Introduction to Computer Systems
or
IMS-115 Introduction to PC Applications 3
MIS-105 Programming Principles 3
MIS-120 RPG Programming I 3
MIS-123 Database Design 3
MIS-220 RPG Programming II 3
MIS-221 Interactive Programming for RPG 3

[^20]
## Software Developer

## Certificate-36 credit hours

## Curriculum Code 1305

This program prepares students with programming skills that will, when combined with a degree and industry experience, provide the background for entry-level or trainee software development positions. Information technology professionals may also pursue this program to enhance their versatility and career advancement potential.

Within this certificate's courses you will gain hands-on experience using at least two programming languages - selecting from C\#, C++, Java, and Visual Basic. Software development lifecycle issues - including solution conception, design, implementation, and testing - are addressed with hands-on experiences using the latest hardware and software development tools. Students expand on their breadth of knowledge by selecting from database, web design/development, eCommerce, and Microsoft Office application integration course options.
Required Career Courses-15 credits as follows:

| IMS-101 | Introduction to Computer Systems |  |
| :--- | :--- | :--- |
| or |  | 3 |
| IMS-115 | Introduction to PC Applications | 3 |
| MIS-105 | Programming Principles | 3 |
| MIS-123 | Database Design |  |
| MIS-210 | Project Management |  |
| or |  | 3 |
| MIS-291 | Systems Analysis and Design | 3 |
| MIS-292 | SQL/Database Applications |  |

Choose one track (9 credit hours):
Visual Basic.NET Programmer Track (9 credit hours)*
MIS-139 VB.NET Programming I 3
MIS-239 VB.NET Programming II 3
MIS-285 ASP.NET Web Applications 3
or
MIS-289 .NET Desktop Application Development
C\# Programmer Track (9 credit hours)*
MIS-154 C\# Programming I 3
MIS-254 C\# Programming II 3
MIS-285 ASP.NET Web Applications 3
or
MIS-289 .NET Desktop Application Development
$\begin{array}{lll}\text { Java Programmer Track (9 credit hours) } \\ \text { MIS-176 } & \text { Java Programming I }\end{array}$
MIS-276 Java Programming II 3
MIS-283 Java Web Applications
or
MIS-286 Java Software Development 3
C++ Programmer Track (9 credit hours)
MIS-160 C++ Programming I 3
MIS-261 C++ Programming II 3
MIS-264 C++ Software Development 3
RPG Programmer Track (9 credit hours)
MIS-120 RPG Programming I
MIS-220 RPG Programming II
MIS-221 Interactive Programming for RPG

Choose another track** (6 credit hours not duplicating selections from the prior track):

Visual Basic.NET Programming Track (6 credit hours)*
MIS-139 VB.NET Programming I
MIS-239 VB.NET Programming II 3
C\# Programming Track (6 credit hours)*
MIS-154 C\# Programming I
MIS-254 C\# Programming II 3
$\begin{array}{ll}\text { Java Programming Track (6 credit hours) } \\ \text { MIS-176 Java Programming I } & 3\end{array}$
MIS-276 Java Programming II 3
C++ Programming Track (6 credit hours)
MIS-160 C++ Programming I 3
MIS-261 C++ Programming II 3
RPG Programming Track (6 credit hours)
MIS-120 RPG Programming I 3
MIS-220 RPG Programming II 3
Web Client Scripting Track (6 credit hours)
MIS-141 Web Page Authoring and Publishing 3
MIS-241 Advanced Web Page Authoring 3
$\begin{array}{lll}\text { E-Commerce Development Track (6 credit hours) } & \\ \text { MIS-197 } & \text { E-Commerce Development } & 3 \\ \text { MIS-297 } & \text { Data-Driven Websites } & 3\end{array}$
Web Design Track (6 credit hours)
OSA-125 Introduction to Website Design 3
OSA-135 Website Applications 3
Electives-Select 6 credit hours that have not been selected above:
MIS-120 RPG Programming I 3
MIS-139 VB.NET Programming I 3
MIS-141 Web Page Authoring and Publishing 3
MIS-154 C\# Programming I 3
MIS-160 C++ Programming I 3
MIS-176 Java Programming I 3
MIS-197 E-Commerce Development 3
MIS-199 Special Short Topics in Technology*** 1
MIS-200 Special Topics in Technology*** 3
MIS-210 Project Management 3
MIS-220 RPG Programming II 3
MIS-221 Interactive Programming for RPG 3
MIS-239 VB.NET Programming II 3
MIS-241 Advanced Web Page Authoring 3
MIS-251 ColdFusion Programming 3
MIS-254 C\# Programming II 3
MIS-259 Flash ActionScript 3
MIS-261 C++ Programming II 3
MIS-264 C++ Software Development
MIS-276 Java Programming II
MIS-283 Java Web Applications
MIS-284 XML.NET Web Services
MIS-285 ASP.NET Web Applications
MIS-286 Java Software Development
MIS-287 Visual Basic for Applications**
VB.NET Desktop Application Development 3
MIS-291 Systems Analysis and Design 3
MIS-297 Data-driven Websites 3
OSA-125 Introduction to Website Design 3
OSA-135 Website Applications 3
*NOTE: Students pursuing VB.NET (or C\#) in one track may not choose C\# (or VB.NET) in the other track.
**NOTE: MIS-287 is a recommended elective for students who select the VB.NET Track.
***NOTE: MIS-199 and MIS-200 can be repeated up to three times for credit as long as different topics are selected.
****NOTE: Courses from each track can be pursued simultaneously.

## Microsoft Application Developer

Certificate-15 credit hours
Curriculum Code 1313
This certificate is designed for experienced software professionals who use Microsoft Technologies to develop and maintain department-level applications, components, Web or desktop clients, back-end data services, or work in teams developing enterprise applications. Students will gain training and practice with numerous features of the .NET framework, including ADO.NET, ASP.NET, Crystal reports, structured exception handling, Web services, remoting, XML support, delegates, encryption, and deployment. Additionally, three-tier architecture, componentization, and object-oriented programming principles will be emphasized using the student's choice of either C\# or Visual Basic.NET.

Courses in this certificate will include most of the topics found in Microsoft's 70-305, 70-306, 70-310, 70-315, 70-316, and 70-320 MCAD exams. Successful completion of three of these exams would result in obtaining the industry-respected Microsoft Certified Application Developer credential.
Required Career Courses-15 credits as follows:
Students choose either two semesters of Visual Basic.NET or two semesters of C\# programming language for a total of 6 credit hours:

Visual Basic Programmer Track (9 credit hours)
$\begin{array}{lll}\text { MIS-139 } & \text { VB.NET Programming I } & 3 \\ \text { MIS-239 } & \text { VB.NET Programming II } & 3\end{array}$
or
C\# Track
MIS-154 C\# Programming I 3
MIS-254 C\# Programming II 3
All student must complete the following 9 credit hours:
MIS-284 XML.NET Web Services 3
MIS-285 ASP.NET Web Applications 3
MIS-289 .NET Desktop Application Development 3

## Visual Basic.NET Programmer <br> Certificate-21 credit hours

Curriculum Code 1457
This program prepares students with programming skills that will, when combined with a degree, provide the background for entrylevel or trainee positions or enhance an information technology professional's versatility and career advancement potential.
Visual Basic is considered to be one of the easiest-to-learn programming languages and it boasts the largest community of software developers worldwide. Visual Basic provides developers with a tool they can use to rapidly deliver desktop, PDA, and datadriven web applications using state-of-the-art object-oriented techniques. Within this certificate's courses you will learn the latest in software design and development methodologies while gaining hands-on experience with the latest versions of Visual Basic.

Required Career Courses-21 credit hours as follows:
IMS-101 Introduction to Computer Systems
or
IMS-115 Introduction to PC Applications 3
MIS-105 Programming Principles 3
MIS-123 Database Design 3
MIS-139 VB.NET Programming I 3
MIS-239 VB.NET Programming II 3
MIS-287 Visual Basic for Applications 3
MIS-285 ASP.NET Web Applications
MIS-289 .NET Desktop Application Development
3

[^21]Website Developer
Certificate-36 credit hours

## Curriculum Code 1433

This certificate is designed for the experienced computer user who has strong skills in Microsoft Windows navigation and computer applications packages. Students who are interested in beginning a career in Web site development and who do not possess these prerequisite skills should meet with the department chair or coordinator to plan appropriate course selection.

Required Career Courses-27 credits as follows:
MIS-105 Programming Principles 3
MIS-111 Internet Technologies 3
MIS-121 Networking for Business 3
MIS-123 Database Design 3
MIS-141 Web Page Authoring and Publishing 3
MIS-241 Advanced Web Page Authoring 3
MIS-292 SQL/Database Applications 3
Choose 3 credits from: MIS-210, MIS-291, BUS-105,
BUS-130, BUS-131, BUS-134, BUS-136, BUS-200,
BUS-230, BUS-231
3
OSA-125 Introduction to Website Design
or
OSA-135 Website Applications 3

*NOTE: OSA-125 is recommended for students pursuing the VB.NET or C\# Programmer Tracks; OSA-135 is recommended for students pursuing the Java or Multimedia Programmer Tracks.

Website Designer
Certificate-30 credit hours

## Curriculum Code 1434

This certificate is designed for the computer user who has strong skills in Microsoft Windows navigation and computer applications packages. Students who are interested in beginning a career in Web site design and who do not possess these prerequisite skills should meet with the department chair or coordinator to plan appropriate course selection.

Required Career Courses-30 credits as follows: MIS-105 Programming Principles 3
MIS-111 Internet Technologies 3
MIS-123 Database Design 3
MIS-141 Web Page Authoring and Publishing 3
MIS-241 Advanced Web Page Authoring 3
MIS-297 Data-Driven Websites 3
OSA-125 Introduction to Website Design 3
OSA-135 Website Applications 3
OSA-234 Introduction to PC Graphics 3
OSA-236 PC Graphics Applications 3

## Marketing and Management

## This program consists of one degree.

## A.A.S. Degree-62 credit hours

## Curriculum Code 1238

The marketing and management program is designed to provide students with entry-level employment or advancement within businesses involved in the marketing of goods or services. This program prepares students for career opportunities as store managers, department and division managers, product managers, warehouse managers, and purchasing agents. This list is not inclusive of all occupations available to marketing and management graduates since management positions vary in fields such as product and production planning, advertising, sales, retailing, wholesaling, distribution, consumer research, small business ownership, and general business administration. An important feature of this program is the internship/seminar component.

According to the U.S. Department of Labor, employment of marketing and management professionals is expected to increase through 2018. Jobs for retail supervisors and managers without college-level coursework are expected to be very competitive. Some retail companies have begun requiring their sales staff to report directly to upper-management personnel, bypassing the department-level manager. Many job openings will occur as experienced supervisors and managers move into higher levels of management.

Required General Education Courses-19 credits as follows:
BUS-120 Business Mathematics
or
MTH-120
General Education Mathematics

Composition I 3
COM-103 Speech Fundamentals 3
ECO-101 Principles of Macroeconomics 3
Select four credits from BIO, CHM, EAS, GEL, NAT, PHS, PHY or MTH-098 or above
Select three credits from ARB, ART, FRE, GER, HUM, JPN, LIT, MUS, PHI, SPA, THE

Required Career Courses-25 credits as follows:
BUS-100 Introduction to Business
BUS-110 Legal Environment in Business
or
BUS-136
BUS-130 Principles of Marketing 3
BUS-135 Personal Finance 2
BUS-142 Financial Accounting 4
BUS-226 Business Ethics 3
BUS-231 Principles of Management 3
BUS-233 Internship 3
BUS-237 Seminar 1

Electives-Select 18 credits from the following concentrations with at least 12 credits being selected from a single concentration area:

## Management

BUS-105
BUS-134
BUS-143
BUS-145
BUS-170
BUS-200
BUS-215
BUS-232
IMS-115

## OSA-230

PSY-201

## Marketing

BUS-131
BUS-133 BUS-134 BUS-143 BUS-155 BUS-200 BUS-230
IMS-115
OSA-230
PSY-201

Small Business Management 4
International Business
3
Managerial Accounting 3
4

Computer Applications in Accounting 3
Introduction to Human Resources 3
Consumer Behavior 3
Employee Training and Development 3
Human Resources Management
Introduction to PC Applications 3

Business Presentations
Industrial/Organizational Psychology
lindiorganizational Psychology
Principles of Retailing 3
Salesmanship 3
International Business 3
Managerial Accounting 4
Display and Visual Merchandising 3
Consumer Behavior
3
Advertising 3
Introduction to PC Applications 3
Business Presentations
3
Industrial/Organizational Psychology

[^22]
## Massage Therapy <br> Certificate-31 credit hours

## Curriculum Code 1249

The Massage Therapy Certificate trains students in the art of touch and the application of pressure to clients' sore muscles and limbs to induce relaxation, assist in rehabilitation and contribute to their overall physical and emotional well being. The program will institute a code of professional ethics coupled with a foundation of business skills. Additionally, Moraine Valley offers a supervised student clinic that is open to the public and gives students the opportunity to work with a variety of people.

## Required Program Prerequisites

MRT-110 Medical Terminology 3
PEH-170 First Aid (or valid First Aid and CPR Card) 3
BIO-115 Anatomy and Physiology 5
Required Career Courses-31 credits as follows:
MAS-101 Introduction to Massage 1
** MAS-110 Basic Swedish Massage 4
MAS-112 Sports Massage 4
MAS-114 Massage Modalities 4
MAS-118 Business, Ethics and Documentation 4
MAS-120 Massage Lab Practicum 2
PEH-160 Fundamentals of Human Movement 3
PEH-171 A Healthy Lifestyle and You 3
REC-101 Recreation and Wellness Professions 3
REC-201 Applied Leadership Essentials 3
** Students will either have a valid CPR/First Aid card at the time of enrollment in MAS-110 or take PEH-170 or a comparable course at another college with a grade of "C" or better.

## Mechanical \& Fluid Power Maintenance

## This program consists of one certificate.

## Certificate-40 credit hours

## Curriculum Code 1275

This program prepares students in four areas important to maintenance personnel, including communications, mechanical systems, electrical systems, and fluid power systems. Students will be prepared for entry-level employment in facility maintenance, service maintenance and/or production maintenance fields.

Employment of industrial machinery repairers is expected to grow more slowly than the average for all occupations as more firms introduce automated production equipment. Qualified applicants should find ample employment opportunities as older workers retire, and employment in industrial machinery repair is not usually affected by seasonal changes in production.

| Required Career Courses-40 credits as follows: |  |  |
| :--- | :--- | :--- |
| ELT-101 | Electricity and Electronics |  |
| ELT-201 | Industrial Controls | 3 |
| IMM-101 | Mechanical Systems I | 3 |
| IMM-103 | Machinery Moving and Set-Up | 3 |
| IMM-107 | Mechanical Systems II | 2 |
| IMM-110 | Hydraulics | 3 |
| IMM-115 | Pneumatics | 3 |
| IST-101 | Introduction to Machine Tools | 3 |
| IST-109 | Prints for Industry | 3 |
| IST-111 | Threading, Milling and Grinding | 3 |
| MTH-133 | Math for Industry | 3 |
| WLD-111 | Basic Arc/Gas Welding I | 2 |
| WLD-112 | Basic Arc/Gas Welding II | 3 |
| WLD-113 | Basic Metallurgy and Materials | 3 |

[^23]
## Mechanical Design and Drafting/CAD

This program consists of one degree and seven certificates.

## A.A.S. Degree-64 credit hours

## Curriculum Code 1221

This program prepares students for careers as professional draftsmen, mechanical designers and CAD technicians. Employment opportunities for those completing the program include positions such as drafter, detailer, CAD operator, CAD technician, mechanical design technician, layout designer, and laboratory technician.
Job opportunities for CAD drafters and designers are widespread. Industrial growth and the increasingly complex design problems associated with new products and processes will greatly increase the demand for drafting services. Replacement needs and CAD—and the ease of obtaining computer-generated informa-tion-stimulates a demand for more information, so there will continue to be growth in this occupation.

| Required General Education Courses-19 to 23 credits as follows: |  |  |
| :---: | :---: | :---: |
| COM-101 | Composition I | 3 |
| COM-103 | Speech Fundamentals | 3 |
| Math Option I |  |  |
| MTH-135 and | Technical Mathematics | 5 |
| MTH-142 | Trigonometric Functions | 2 |
| or |  |  |
| MTH-141 <br> and | College Algebra (Functions) | 4 |
| MTH-142 | Trigonometric Functions | 2 |
| MTH Option II |  |  |
| MTH-150 and | Calculus I/Analytic Geometry | 5 |
| MTH-151 | Calculus II/Analytic Geometry | 5 |
| PHY-150 | Mechanics, Heat and Sound | 4 |
| Select three credits from ANT, ECO, GEO, HIS, PSY, |  |  |
| PSC, SOC, SS |  | 3 |
| Required Career Courses-39 credits as follows: |  |  |
| IST-101 | Introduction to Machine Tools | 3 |
| MDT-101 | Introduction to Drafting | 3 |
| MDT-106 | Mechanical Assemblies | 2 |
| MDT-110 | Mechanical Detailing | 3 |
| MDT-115 | Applied GDT | 2 |
| MDT-145 | Introduction to Computer Aided Drafting | 3 |
| MDT-160 | Introduction to 3D Modeling | 3 |
| MDT-205 | Machine Elements | 3 |
| MDT-209 | Hydraulics and Pneumatics | 2 |
| MDT-210 | Statics and Strengths of Material | 3 |
| MDT-213 | Plant Engineering Drafting | 3 |
| MDT-220 | Tool Drafting | 3 |
| MDT-255 | Machine Design | 3 |
| WLD-113 | Basic Metallurgy and Materials | 3 |

Electives-Select 6 credits from the following: MDT-233 Internship 3
MDT-237 Internship Seminar 1
MDT-245 Applied CAD 3
MDT-260 CAD Management 3
MDT-278 Design Visualization 3
MDT-285 3D Parametric Modeling 3
MDT-288 Applied 3D Parametric Modeling 3

## 3-D CAD

## Certificate-17 credit hours

## Curriculum Code 1439

This program prepares the student for a career as a three-dimensional CAD drafter, designer, or detailer.

Required Career Courses-17 credits as follows:
MDT-145 Introduction to Computer Aided Drafting 3
MDT-160 Introduction to 3D Modeling 3
MDT-278 Design Visualization 3
MDT-285 3D Parametric Modeling 3
MDT-288 Applied 3D Parametric Modeling 3
MDT-289 3D Parametric Assemblies 2

## 3-D Parametric Modeling <br> Certificate-8 credit hours

Curriculum Code 1339
This program provides an in-depth, focused study of threedimensional modeling of mechanical parts and assemblies concentrating on parametric, adaptive design techniques, and photo-realistic rendering.
Required Career Courses- 8 credits as follows:

| MDT-285 | 3D Parametric Modeling | 3 |
| :--- | :--- | :--- |
| MDT-288 | Applied 3D Parametric Modeling | 3 |
| MDT-289 | 3D Parametric Assemblies | 2 |

## Architectural CAD

## Certificate-23 credit hours

Curriculum Code 1436
This program prepares the student for a career in the architecture and civil engineering fields as a CAD specialist. Two-and three-dimensional animated computer images are created, edited, and produced.

Required Career Courses-23 credits as follows:
MDT-145 Introduction to Computer Aided Drafting 3
MDT-190 Construction Blueprint Reading 2
MDT-245 Applied CAD 3
MDT-260 CAD Management 3
MDT-278 Design Visualization 3
MDT-290 Introduction to Architectural CAD 3
MDT-291 Applied Architectural Facilities 3
MDT-292 Applied CAD Commercial Facilities 3

## CAD Programming/Management

## Certificate-18 credit hours

## Curriculum Code 1437

This program prepares the student for a career as a CAD programmer and a CAD network manager.

Required Career Courses-12 credits as follows:

| MDT-145 | Introduction to Computer Aided Drafting | 3 |
| :--- | :--- | :--- |
| MDT-245 | Applied CAD | 3 |
| MDT-260 | CAD Management | 3 |
| MIS-105 | Programming Principles | 3 |

Electives-Select 6 credit hours from the following:
Visual BASIC Track
MIS-139 VB.NET Programming I 3
MIS-239 VB.NET Programming II 3
MIS-287 Visual BASIC for Applications 3
C++ Track
MIS-160 C++ Programming I 3
MIS-261 C++ Programming II 3

## Computer Animation

## Certificate-23 credit hours

## Curriculum Code 1438

This program prepares the student for a career in the computer animation, computer graphics and digital imaging fields. Twoand three-dimensional animated computer images are created, edited and produced.

| Required Career Courses—14 credits as follows: |  |  |
| :--- | :--- | :--- |
| MDT-100 | Introduction to Computer Graphics |  |
| MDT-120 | Fundamentals of 2D Design | 2 |
| MDT-275 | Introduction to Animation | 3 |
| MDT-276 | Applied Animation Techniques | 3 |
| MDT-279 | Storyboarding | 3 |
| Electives—Select 9 credit hours from any of the following courses: |  |  |
| Character Animation | Track | 3 |
| MDT-277 | Computer Character Animation |  |
| MDT-280 | Video Integration | 3 |
| MDT-283 | Character Modeling | 3 |
| MDT-287 | Game Design | 3 |
| MDT-293 | Game Design Elements | 3 |
| Technical Animation | Track | 3 |
| MDT-278 | Design Visualization |  |
| MDT-280 | Video Integration | 3 |
| MDT-284 | Dynamic Simulations | 3 |
| MDT-285 | 3D Parametric Modeling | 3 |
| Interactive 3D Animation Track | 3 |  |
| MDT-281 | Introduction to FLASH |  |
| MDT-282 | Advanced FLASH for 3D Animation |  |
| MDT-284 | Dynamic Simulations | 3 |
| MDT-287 | Game Design | 3 |
| MDT-293 | Game Design Elements | 3 |

## Mechanical Design CAD <br> Certificate-23 credit hours

Curriculum Code 2102
This program is only open to students who have 30 hours in a drafting program, or two years of industrial drafting or engineering experience, or consent of instructor.
Required Career Courses-23 credits as follows:
MDT-100 Introduction to Computer Graphics 2
MDT-145 Introduction to Computer Aided Drafting 3
MDT-160 Introduction to 3D Modeling 3
MDT-245 Applied CAD 3
MDT-260 CAD Management 3
MDT-275 Introduction to Animation 3
MDT-278 Design Visualization 3
MDT-285 3D Parametric Modeling 3

## Mechanical Design Drafting <br> Certificate- 30 credit hours

Curriculum Code 1220
Prepares students for entry-level positions in mechanical drafting and computer aided design (CAD). Development of drafting/CAD skills and practical applications are stressed.

Required General Education Courses-8 credits as follows:

| COM-101 | Composition I | 3 |
| :--- | :--- | :--- |
| MTH-135 | Technical Mathematics | 5 |

Required Career Courses-22 credits as follows:
IST-101 Introduction to Machine Tools 3
MDT-101 Introduction to Drafting 3
MDT-106 Mechanical Assemblies 2
MDT-110 Mechanical Detailing 3
MDT-115 Applied GDT 2
MDT-145 Introduction to Computer Aided Drafting 3
MDT-160 Introduction to 3D Modeling 3
WLD-113 Basic Metallurgy and Materials 3

A pre- or corequisite may be required for some courses.

## Medical Assistant

## This program consists of one certificate.

## Certificate-42 credit hours

Curriculum Code 1455
The Medical Assistant Certificate Program prepares graduates to begin careers as members of a multidisciplinary health care team within an ambulatory care setting. Students develop skills in accordance with the American Association of Medical Assistants entry-level competencies to perform administrative and clinical procedures. Additionally, the program will instill a code of professional ethics coupled with a foundation in skills that are needed to assist physicians in caring for patients. Graduates are eligible to take a national certification exam upon course and externship completion.

Medical assistants perform administrative and clinical tasks to keep the offices of physicians, chiropractors and other health care practitioners running smoothly. Administrative duties may include scheduling appointments, greeting clients, maintaining medical records, coding and filling out insurance forms, arranging for diagnostic testing and referrals, handling correspondence, performing billing and bookkeeping procedures, and using computer applications.
Clinical duties vary by state. They may include conducting medical histories, explaining treatment procedures, preparing clients for examinations, and assisting the physician during the exam. Medical assistants also may collect and prepare laboratory specimens for testing and may perform basic laboratory testing. They instruct clients about medication and diets, telephone prescriptions to a pharmacy as directed, take electrocardiograms, and change dressings. They help patients feel at ease in the health care setting. They respect the confidential nature of medical information and promote patient privacy.

The Medical Assisting Externship consists of 160 hours of unpaid training at one of the Moraine Valley affiliated clinical sites. Most externship sites require that students have a completed health/physical form, required immunizations, current CPR certification, HIPAA understanding, health insurance, and a criminal background check and/or drug screening. Students must be 18 years old to begin their externship. They must be prepared to travel to the assigned externship site. Students must achieve a minimum grade of " C " in all prerequisites and required courses to advance within the program.

Required General Education Course-5 credits as follows: BIO-115 Anatomy and Physiology

Required Career Courses-35 credits as follows:
MOA-115 Clinical Laboratory Procedures 4
MOA-130 Law and Ethics in Healthcare 2
MOA-140 Medical Office Administration 3
MOA-142 Medical Office Finance Systems 3
MOA-144 Pharmacology—Principles/Applications 3
MOA-147 Medical Assistant Clinic Procedures 6

* MOA-155 Medical Assistant Externship 3

MOA-156 Medical Assistant Seminar 1
MRT-110 Medical Terminology 3
MRT-130 Computers in Allied Health 1
PHB-110 Principles and Practice of Phlebotomy 6
Electives-Select at least 2 credit hours from the following: COM-101 Composition I 3
COM-103 Speech Fundamentals 3
MTH-109 Math for Allied Health 2
PEH-170 First Aid 3
PEH-171 A Healthy Lifestyle and You 3
PEH-172 Nutrition for Today 3
PHB-111 Phlebotomy Clinical Practice Seminar 1
PHB-112 Phlebotomy Clinical Practice 2
REC-101 Recreation and Wellness Professions 3
RES-200 EKG Application and Theory 1
SPA-115 Career Spanish for Health Care I 3
SPA-116 Career Spanish for Health Care II 3

* Must be completed within one year of completing the clinical courses (MOA-115, MOA-144, MOA-147). The 160 unpaid hours of clinical externship is at an affiliated ambulatory care site, usually completed within four to six weeks.


## Nursing

## This program consists of one degree.

## A.A.S. Degree-72 credit hours

## Curriculum Code 1246

The Nursing (ADN) Program prepares students for nursing careers in hospitals and other health care facilities. Admitted students who wish to earn an Associate in Science degree in addition to an Associate in Applied Science degree should consult with an advisor in the Academic Advising Center.

Students learn to deliver nursing care to people of all ages using principles of the biological, physical and behavioral sciences, plus study how to assess nursing care needs of patients and how to make judgments in planning, implementing and evaluating appropriate nursing care.
This two-year program starts in either the fall or spring of each year and continues for a total of four consecutive semesters, excluding summer. The Nursing Program conducts a rigorous curriculum of lectures, labs and clinicals. Clinicals are conducted on site at a variety of hospitals during the day time or evening with no flexibility in scheduling. Therefore, holding a full-time job while in the program may affect student success and is not recommended. However, general education classes are available morning, afternoon or evening, and can be completed part-time, if necessary.

## Employment Outlook

Job opportunities for RNs in all specialties are expected to be excellent. Employment of registered nurses is expected to grow much faster than average for all occupations through 2014, and, because the occupation is very large, many new jobs will result. In fact, registered nurses are projected to create the second largest number of new jobs among all occupations. Thousands of job openings also will result from the need to replace experienced nurses who leave the occupation, especially as the median age of the registered nurse population continues to rise.
Much faster-than-average growth will be driven by technological advances in patient care, which permit a greater number of medical problems to be treated, and by an increasing emphasis on preventive care. In addition, the number of older people, who are much more likely than younger people to need nursing care, is projected to grow rapidly.

## Accreditation

Moraine Valley's Nursing Program is accredited by the National League for Nursing Accrediting Commission (NLNAC) $\dagger$, and approved by the Illinois Department of Professional Regulation, the Illinois Community College Board, the Illinois Board of Higher Education, and the Illinois Department of Vocational Technical Education.
$\dagger$ National League for Nursing Accrediting Commission (NLNAC) 3343 Peachtree Road NE, Suite 500
Atlanta, GA 30326
Telephone: (404) 975-5000

## Licensure

Program graduates are eligible to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN). The Department of Financial and Professional Regulation in Springfield grants licensure for registered nurses. **Upon successful completion of the first year, students will be eligible and have the option to take the National Council Licensure Examination for Licensed Practical Nurses (NCLEX-PN). This is an option embedded in the MVCC ADN program.
The Department of Financial and Professional Regulation in Springfield grants licensure for registered nurses. Upon successful completion of the NCLEX-RN exam, graduates may apply to the Department of Financial and Professional Regulation for Registered Nurse licensure. Graduating from an accredited nursing program guarantees the right to apply to write for the licensing exam.

National League for Nursing Accrediting Commission (NLNAC) 3343 Peachtree Road NE, Suite 500
Atlanta, GA 30326
Telephone: (404) 975-5000

## Application and Selection Processes

For complete information about the Nursing Program application and selection processes, please refer to the Nursing Program website.

## Application process

- Attend an information session
- Submit the Moraine Valley college enrollment form
- Complete placement and admission tests
- Submit a Nursing Application
- Submit Transcripts and Proof of current CNA certification to the Registrar's Office (Records Department)


## Selection Process

- Ranking score: Points will be awarded based on:
o ATI-TEAS scores in Math and Science
- For College BIO-180 Anatomy and Physiology I point(s) will be awarded based on the final grade: " $C$ " $=1$ point, " $B$ " $=2$ points, " $A$ " $=3$ points. Completion of BIO-180 with a "C" or better is a requirement for the application and admission process.
- Tie breaker: date/time of completed Nursing application
- Residency: In-district residents who submit all required documentation to Registrar's office (Records Department) by the nursing program application deadline will be admitted in ranking score order before out-of-district residents.
- Notification: Applicants will be notified of the status of their selection within three weeks after nursing program application deadline.
- Applicants who decline a seat within 14 calendar days of the beginning of the semester or once the semester begins will not be able to reapply for the nursing program in the next admission cycle.

A pre- or corequisite may be required for some courses.

## Academic Standing

- Any general education course that applies to the nursing program completed prior to enrollment in the program must be completed with a grade of "C" or better.
- As per the Moraine Valley policy, course work may be repeated only twice for a total of three enrollments in a course.
- BIO-180 Anatomy and Physiology I must be completed with a "C" or better for admission to the nursing program.

Fees-Fees associated with specific nursing courses include use of equipment, some supplies and malpractice insurance if it is a clinical nursing course.

See the Nursing career program worksheet available in the Academic Advising Center for more information on approximate annual costs.

Health Physical—Prior to enrollment, admitted students must submit a complete health history and physical form signed by the applicant and physician or nurse practitioner. The health history and physical must be updated every two years. The health physical includes required laboratory tests and immunizations as required by clinical affiliates. This requirement may cost around $\$ 400$. Initial two-step and yearly one-step TB tests are required. Questions about the health physical should be directed to the program coordinator of Nursing. Health physical forms may be obtained from the Admissions Office. The student is encouraged to maintain a copy of all health physical information submitted to the program.

See the ADN rules and regulations for specific information on reporting pregnancy, illness, injury, surgery or need for medications.

Re-Application and Re-Admission—Please see the Nursing Program Web site or contact the program coordinator.

Readmission-Upon withdrawal or failure to maintain a minimum GPA in the Nursing Program, students seeking readmission must follow the Department of Nursing policies for readmission. The readmission policies are contained in the Nursing rules and regulations that are distributed to every student at orientation and discussed the first day of class.

Students seeking readmission need to:

- Complete and submit a readmission form. (Readmission forms are available from and should be returned to the Admissions Office.)
- Meet conditions for readmission as stated on or with attrition form.
- Make sure health record and CPR status meet program requirements.


## Program Requirements

All General Education courses in the Nursing Program must be completed with a grade of "C" or better.

- Responsible for transportation to and from clinical affiliates.
- Responsible for submitting a completed health physical prior to start of semester-see Health Physical section on this page.
- Responsible for complying with drug screens, criminal background check, etc., as required by clinical affiliates. This will be at the student's expense.
- Provide proof of comprehensive health and accident insurance.
- Responsible for all program fees.
- Responsible for obtaining uniforms.
- Maintain and report proof of current Health Care Provider CPR certification while in program.
- Required to adhere to the Code of Student Conduct. See the Student Rights and Responsibilities section of this catalog.


## Curriculum

Required General Education Courses-20 credits as follows:
BIO-180 Human Anatomy and Physiology I 4
BIO-181 Human Anatomy and Physiology II 4
COM-101 Composition I 3
COM-103 Speech Fundamentals 3
PSY-104 Life-Span Developmental Psychology 3
SOC-101 General Sociology 3
Required Career Courses-52 credits as follows:
BIO-119 Introductory Microbiology 4
HSC-120 Pharmacology and Disease Processes I 3
HSC-140 Pharmacology and Disease Processes II 3
NUR-140 Nursing Concepts I 4
NUR-141 Nursing Concepts II 2
NUR-142 Nursing Concepts III 2
NUR-150 Nursing Arts I 2
NUR-151 Nursing Arts II 2
NUR-152 Nursing Arts III 1
NUR-160 Nursing Clinical Practice I 2
NUR-161 Nursing Clinical Practice II 3
NUR-165 Nursing Transition I 3
NUR-240 Nursing Concepts IV 2
NUR-241 Nursing Concepts V 2
NUR-242 Nursing Concepts VI 2
NUR-243 Nursing Concepts VII 2
NUR-250 Nursing Arts IV 2
NUR-260 Nursing Clinical Practice III 2
NUR-261 Nursing Clinical Practice IV 2
NUR-262 Nursing Clinical Practice V 4
NUR-265 Nursing Transition II 3

Students must have completed required course prerequisites, be currently enrolled in required course corequisites, and successfully pass all pre- and corequisites to continue in the ADN Program.

## Office Systems and Applications

## This program consists of one degree and six certificates.

## A.A.S. Degree-64 credit hours

Curriculum Code 1257
This program prepares students for careers in administrative support and first-line supervision. Depending upon a student's area of concentration, graduates will qualify for positions as administrative assistant, executive assistant, legal office assistant, medical secretary, desktop publishing specialist, Web design assistant, office administrator, office supervisor, or desktop support (help desk) specialist.

Students completing this program are expected to possess excellent keyboarding, proofreading, and document formatting skills; advanced computer application skills; strong communication skills; broad administrative support skills; excellent interpersonal skills; flexibility; and professionalism. Students completing this program may be expected to supervise lower-level clerical staff.

Students with work experience and advanced skills should contact the program coordinator for assessment and course substitution information. Students without prerequisite skills are expected to take the necessary additional courses. An important feature of this program is the internship/seminar component that provides on-the-job training and offers the student new to the field an opportunity to work in and evaluate a professional setting. The employer also can evaluate the student for possible full-time employment upon graduation. Students wishing to enroll in the internship/seminar should contact the internship coordinator prior to enrollment.
Program prerequisite: keyboarding skill of 26 net words per minute. Students who need to reach this skill level must enroll in OSA 100, Keyboarding I.

Required General Education Courses-16 credits as follows:
BUS-120 Business Mathematics
or
MTH-120 General Education Mathematics

- (recommended for transfer students)

COM-103 Speech Fundamentals
3
3
Select four credits from BIO, CHM, EAS, GEL, NAT,
PHS, PHY
Select three credits from ANT, ARB, ART, ECO, FRE, GEO, GER,
HIS, HUM, JPN, LIT, MUS, PHI, PSC, PSY, SOC, SSC, SPA, THE

Required Career Courses-30 credits as follows:
IMS-115 Introduction to PC Applications 3
MIS-111 Internet Technologies 3
MIS-146 Operating Systems 3
OSA-103 Office Language Skills 3
OSA-122 Electronic Spreadsheets 3
OSA-145 PC Word Processing 3
OSA-230 Business Presentations 3
OSA-249 Accounting for Office Professionals 3
OSA-257 Database Management 3
OSA-258 Internship 3

## Concentrations

Students may select Administrative Assistant. Legal Office Assistant, Desktop Publishing Specialist, Web Design Assistant, PC Applications Help Desk Specialist or Office Administrator Concentration, or medical secretary.

Administrative Assistant Concentration-18 credits
Required Special Career Courses-15 credits as follows:
OSA-102 Document Formatting 3

* OSA-104 Keyboarding Speed and Accuracy 1

OSA-243 Business Writing 2
OSA-246 PC Applications Integration 3
OSA-250 Records Management 2
OSA-255 Administrative Office Procedures 3
OSA-260 Seminar 1
Electives-Select 3 credit hours from the following: BUS-100 Introduction to Business 3 LSC-110 Fundamentals of Meeting Planning 3 MIS-141 Web Page Authoring and Publishing 3 OSA-116 Outlook 1 OSA-232 Desktop Publishing 3 OSA-234 Introduction to PC Graphics 3 OSA-275 PC Applications for Power Users 3

Office Administrator - 18 credits
Required Special Career Courses-15 credits as follows: BUS-226 Business Ethics 3 BUS-231 Principles of Management 3 OSA-246 PC Applications Integration 3 OSA-255 Administrative Office Procedures 3
PSY-201 Industrial/Organizational Psychology 3
Electives—Select 3 credit hours from the following: BUS-100 Introduction to Business 3 LSC-110 Fundamentals of Meeting Planning 3 MIS-141 Web Page Authoring and Publishing 3 OSA-116 Outlook 1 OSA-232 Desktop Publishing 3 OSA-234 Introduction to PC Graphics 3 OSA-275 PC Applications for Power Users 3

[^24][^25]Legal Office Assistant —18 credits
Required Special Career Courses-15 credits as follows:
BUS-110 Legal Environment in Business

OSA-102 Document Formatting

* OSA-104 Keyboarding Speed and Accuracy

OSA-246 PC Applications Integration
OSA-250 Records Management
OSA-252 Legal Terminology and Procedures
Electives-Select 3 credit hours from the following:
BUS-136 Business Law
OSA-116 Outlook
OSA-232 Desktop Publishing
OSA-243 Business Writing
OSA-260 Seminar

Desktop Publishing Specialist -18 credits
Required Special Career Courses-18 credits as follows:
MIS-141 Web Page Authoring and Publishing
OSA-125 Introduction to Website Design
OSA-232 Desktop Publishing
OSA-234 Introduction to PC Graphics
OSA-235 Desktop Publishing Applications
OSA-236 PC Graphics Applications

Web Design Assistant —18 credits
Required Special Career Courses-15 credits as follows:
MIS-141 Web Page Authoring and Publishing
OSA-125 Introduction to Website Design
OSA-135 Website Applications
OSA-234 Introduction to PC Graphics
OSA-236 PC Graphics Applications
Electives—Select 3 credit hours from the following:
MIS-105 Programming Principles
MIS-241 Advanced Web Page Authoring
OSA-232 Desktop Publishing
OSA-246 PC Applications Integration

PC Applications Help Desk Specialist—18 credits
Required Special Career Courses-18 credits as follows:
LAN-111 IT Essentials-A+
MIS-121 Networking for Business
OSA-246 PC Applications Integration
OSA-275 PC Applications for Power Users
PSY-201 Industrial/Organizational Psychology
Electives-Select 3 credit hours from the following:
BUS-100 Introduction to Business
MIS-105 Programming Principles
MIS-141 Web Page Authoring and Publishing
OSA-116 Outlook
OSA-232 Desktop Publishing
OSA-234 Introduction to PC Graphics
OSA-243 Business Writing

Medical Secretary-18 credits
Required Special Career Courses-18 credits as follows:
MRT-105 Beginning Medical Transcription 3

MRT-110 Medical Terminology 3
MRT-111 Health Information Management 4
OSA-102 Document Formatting 3

* OSA-104 Keyboarding Speed and Accuracy 1

OSA-116 Outlook
OSA-255 Administrative Office Procedures

## Administrative Assistant

Certificate-36 credit hours
Curriculum Code 1315
This program prepares students for positions as administrative assistants, executive assistants, and secretaries. Graduates acquire strong skills in computer applications, written communications, and office procedures. Keyboarding, proofreading, document formatting, and language skills are emphasized.

Program prerequisite: keyboarding skill of 26 net words per minute. Students who need to reach this skill level must enroll in OSA-100, Keyboarding I.

Required Career Courses-34 credits as follows:
IMS-115 Introduction to PC Applications 3
MIS $146 \quad$ Operating Systems 3
OSA-102 Document Formatting 3
OSA-103 Office Language Skills 3

* OSA-104 Keyboarding Speed and Accuracy 1

OSA-122 Electronic Spreadsheets 3
OSA-145 PC Word Processing 3
OSA-230 Business Presentations 3
OSA-246 PC Applications Integration 3
OSA-249 Accounting for Office Professionals 3
OSA-255 Administrative Office Procedures 3
OSA-257 Database Management 3
Electives-Select at least 2 credit hours from the following:
BUS-100 Introduction to Business 3

LSC-110 Fundamentals of Meeting Planning 3
MIS-111 Internet Technologies 3
MIS-141 Web Page Authoring and Publishing 3
OSA-116 Outlook 1
OSA-232 Desktop Publishing 3
OSA-234 Introduction to PC Graphics 3
OSA-243 Business Writing 2
OSA-250 Records Management 2
OSA-258 Internship 3
OSA-260 Seminar 1
OSA-275 PC Applications for Power Users 3

* May need to be repeated. Minimum skill level recommended for employment: 50 wpm.


## Desktop Publishing and Graphics

## Certificate-15 credit hours

Curriculum Code 1312

This certificate provides skill development in beginning-level desktop publishing. Students utilize software such as Microsoft Publisher, Adobe Photoshop, Adobe Illustrator, Adobe InDesign, and Quark Express. This program is designed for the experienced computer user who possesses strong skills in Microsoft Windows navigation and computer application packages. It is appropriate for students who have earned a degree previously or who can prove substantial work experience. Students who are interested in beginning a career in graphics or desktop publishing and do not possess these prerequisite skills should meet with the department chair or program coordinator to plan appropriate course selections.

Required Career Courses-15 credits as follows:
OSA-225 Microsoft Publisher 3

OSA-232 Desktop Publishing
OSA-234 Introduction to PC Graphics
OSA-235 Desktop Publishing Applications
OSA-236 PC Graphics Applications

## Legal Office Assistant <br> Certificate- 36 credit hours <br> \section*{Curriculum Code 1316}

This program prepares students for positions as administrative assistants in a legal office. Graduates are skilled in general office applications with an emphasis on advanced word processing, legal terminology and legal procedures. Students acquire skills in preparing legal papers and correspondence such as summonses, complaints, motions, and subpoenas and become familiar with legal research. Graduates of this program must possess excellent keyboarding and proofreading skills.

Program prerequisite: keyboarding skill of 26 net words per minute. Students who need to reach this skill level must enroll in OSA-100, Keyboarding I.

Required Career Courses-33 credits as follows:
BUS-110 Legal Environment in Business 3
IMS-115 Introduction to PC Applications 3
MIS-111 Internet Technologies 3
MIS-146 Operating Systems 3
OSA-102 Document Formatting 3
OSA-103 Office Language Skills 3

* OSA-104 Keyboarding Speed and Accuracy 1

OSA-145 PC Word Processing 3
OSA-243 Business Writing 2
OSA-246 PC Applications Integration 3
OSA-250 Records Management 2
OSA-252 Legal Terminology and Procedures 3
OSA-260 Seminar 1

Electives-Select at least 3 credit hours from the following: BUS-136 Business Law 3
OSA-116 Outlook 1
OSA-122 Electronic Spreadsheets 3
OSA-230 Business Presentations 3
OSA-249 Accounting for Office Professionals 3
OSA-257 Database Management 3
OSA-258 Internship 3

## PC Applications Help Desk

## Certificate-34 credit hours

Curriculum Code 1311
This program prepares students for entry-level positions in desktop support for PC applications. Students acquire hardware and software knowledge and customer service skills necessary to troubleshoot and resolve basic PC and applications problems. Students pursuing this program learn to answer questions or resolve computer problems for clients in person, via telephone or from remote location. They may provide assistance concerning the use of computer hardware and software including printing, installing hardware and software, application programs, electronic mail, and operating systems.

Required Career Courses-34 credits as follows:
IMS-115 Introduction to PC Applications 3
LAN-111 IT Essentials-A+ 3
MIS-111 Internet Technologies 3
MIS-121 Networking for Business 3
MIS-146 Operating Systems 3
OSA-116 Outlook 1
OSA-122 Electronic Spreadsheets 3
OSA-145 PC Word Processing 3
OSA-230 Business Presentations 3
OSA-246 PC Applications Integration 3
OSA-257 Database Management 3
PSY-201 Industrial/Organizational Psychology 3

* May need to be repeated. Minimum skill level recommended for employ-
ment: 50 wpm.

[^26]
## Microsoft Office Specialist

## Certificate-22 credit hours

## Curriculum Code 1456

This program is appropriate for any individual who wishes to become proficient in microcomputer applications to further advance his or her current position or to open doors to new opportunities in the workplace. This certificate may be applied to the Administrative Assistant certificate, the PC Applications Help Desk certificate, and the A.A.S. degree in Office Systems and Applications. Students pursuing certificates and degrees in business should consider this certificate as well. Courses in this certificate prepare students for Microsoft Office Specialist certification.

For more information, visit www.morainevalley.edu/ims/mos.htm.
Program prerequisites: keyboarding skill of 26 nwpm. Students who need to reach this skill level should enroll in OSA-100, Keyboarding I. Students with little or no knowledge of microcomputers should also enroll in IMS 100, Personal Computer Basics.

Required Career Courses-22 credits as follows:

| IMS-115 | Introduction to PC Applications |
| :--- | :--- |
| OSA-116 | Outlook |
| OSA-122 | Electronic Spreadsheets |
| OSA-145 | PC Word Processing |
| OSA-225 | Microsoft Publisher |
| OSA-230 | Business Presentations |
| OSA-246 | PC Applications Integration |
| OSA-257 | Database Management |

OSA 116 Itoduction to PC Applications
1
OSA-122 Electronic Spreadsheets 3
OSA-145 PC Word Processing
OSA-230 Business Presentations

OSA-257 Database Management

## Receptionist/Office Assistant

## Certificate-19 credit hours

Curriculum Code 1214
This program prepares students for positions as receptionists, front desk coordinators, and office assistants. Students learn proper techniques and procedures for greeting visitors, handling incoming calls, sorting and routing incoming materials, and performing general administrative duties. Filing, document formatting, and language skills are emphasized.
Program prerequisite: keyboarding skill of 26 nwpm. Students who need to reach this skill level must enroll in OSA-100.

Required Career Courses-19 credits as follows:
IMS-100 Personal Computer Basics
IMS-115 Introduction to PC Applications
MIS-108 Internet Basics
OSA-102 Document Formatting
OSA-103 Office Language Skills

* OSA-104 Keyboarding Speed and Accuracy

OSA-116 Outlook
OSA-255 Administrative Office Procedures 3
OSA-260 Seminar 1

## Data Entry

## Certificate-7 credit hours

Curriculum Code 1317
This program prepares students to utilize a keyboard to enter data from source documents into a computer, with students completing tasks such as entering alphabetic, numeric, or symbolic keystrokes. Students learn to compile, sort, and verify the accuracy of data to be entered. Keyboarding accuracy is stressed.

Required Career Courses-7 credit hours as follows:
IMS-115 Introduction to PC Applications 3
OSA-100 Keyboarding 3

* OSA-104 Keyboarding Speed and Accuracy 1
*May need to be repeated. Minimum skill level recommended for employment: 40 nwpm.


## Medical Secretary

## Certificate-34 credit hours

Curriculum Code 1318
This program prepares students for administrative assistant positions in medical offices or in health-related industries. Students gain knowledge of administrative and receptionist duties, medical transcription, and data entry. They will be prepared to produce reports, schedule appointments, answer telephones, and interact with vendors and patients. Familiarity with medical terminology, filing procedures, and computer applications is included.
Program prerequisite: keyboarding skill of 26 nwpm. Students who need to reach this skill level may enroll in OSA-100, Keyboarding I.
Required Career Courses-34 credit hours as follows: IMS-115 Introduction to PC Applications 3 MRT-105 Beginning Medical Transcription 3
MRT-110 Medical Terminology 3
MRT-111 Health Information Management 4
OSA-102 Document Formatting 3
OSA-103 Office Language Skills 3

* OSA-104 Keyboarding Speed and Accuracy 1

OSA-116 Outlook 1
OSA-122 Electronic Spreadsheets 3
OSA-145 PC Word Processing 3
OSA-230 Business Presentations 3
OSA-255 Administrative Office Procedures 3
OSA-260 Seminar 1

[^27]
## Paraprofessional Educator

## This program consists of one degree and one certificate.

## A.A.S. Degree-62 credit hours

Curriculum Code 1470
This program can prepare you for a career as a paraprofessional educator (teacher's aide) in regular and special education classes in elementary and secondary schools and in social service agencies. Moraine Valley's program provides you with a strong foundation for a career in education through classroom work and observation in the field. Employment of paraprofessionals is expected to grow.

| Required General Education Courses-19 credits as follows: |  |  |
| :---: | :---: | :---: |
| COM-101 | Composition I | 3 |
| COM-103 | Speech Fundamentals | 3 |
| PSY-101 | Introduction to Psychology | 3 |
| Select 3 credit HIS, PSC, PS | from Social/Behavioral Sciences: ANT, ECO SOC, SSC | 3 |
| Select 3 credit HUM, JPN, LIT, | from Humanities/FineArts: ARB, ART, FRE, MUS, PHI, SPA, THE | 3 |
| Recommended | hat students choose a Non-Western or |  |
| Third World C | ures course |  |
| Choose a labor | ory science course | 4 |
| Required Career Courses-28 credits as follows: |  |  |
| EDU-100 | Introduction to Education | 3 |
| EDU-102 | Introduction to Paraprofessional Educator | 3 |
| EDU-103 | Observation/Clinical Experience | 1 |
| EDU-104 | Introduction to the Foundations of Reading | 3 |
| EDU-110 | Technology for Educators | 3 |
| EDU-111 | Students with Disabilities in School | 3 |
| EDU/LIT-205 | Literature for Children/Young Adults | 3 |
| MTH-102 | Mathematics for Paraprofessionals |  |
| or |  |  |
| MTH-121 | Math for Teachers I | 3 |
| PSY-104 | Life-Span Developmental Psychology | 3 |
| PSY-215 | Educational Psychology | 3 |
| Electives-Select 15 credits from the following: |  |  |
| ADC-205 | Substance Abuse | 3 |
| ART-110 | Art Appreciation | 3 |
| CCA-101 | Introduction to Early Childhood Education | 3 |
| CCA-105 | Health-Safety-Nutrition-Young Child |  |
| or |  |  |
| PEH-171 | A Healthy Lifestyle and You | 3 |
| CCA-106 | Creative Activities-Young Child | 3 |
| COL-101 | College: Changes, Challenges, Choices | 1 |
| COM-102 | Composition II | 3 |
| CRJ-107 | Juvenile Delinquency and Procedures | 3 |
| * EDU-105 | Classroom Management | 3 |
| EDU-233 | Paraprofessional Educator Internship | 3 |
| EDU-237 | Paraprofessional Educator Seminar | 1 |
| Select 4-8 credits in a foreign language sequence. |  |  |
| IMS-100 | Personal Computer Basics | 1 |
| MTH-122 | Math for Teachers II | 3 |
| MUS-107 | Music Appreciation | 3 |
| PEH-181 | Fundamentals of Rhythmical Movement | 2 |
| PSY-205 | Abnormal Psychology | 3 |
| Science elective to complete sequence |  |  |
| SOC-102 | Marriage and Family | 3 |

COM-103 Speech Fundamentals 3
Select 3 credits from Social/Behavioral Sciences: ANT, ECO, GEO, HIS, PSC, PSY, SOC, SSC
Select 3 credits from Humanities/FineArts: ARB, ART, FRE, GER, HUM, JPN, LIT, MUS, PHI, SPA, THE
Recommended that students choose a Non-Western or
Third World Cultures course
Choose a laboratory science course

EDU-100
EDU-102 Introduction to Paraprofessional Educator
EDU-103 Observation/Clinical Experience

EDU-111 Students with Disabilities in School
EDU/LIT-205 Literature for Children/Young Adults
or
PSY-104 Life-Span Developmental Psychology 3
PSY-215 Educational Psychology 3
$\begin{array}{ll}\text { Electives—Select } & 15 \text { credits from the following: } \\ \text { ADC-205 } & \text { Substance Abuse }\end{array}$
ART-110 Art Appreciation 3
No Early Childhood Education
or
PEH-171 A Healthy Lifestyle and You 3

COL-101 Con
CRJ-107 Juvenile Delinquency and Procedures
EDU-233 Paraprofessional Educator Internship
Paraprofessional Educator Seminar 1
e-8 credits in a foreign language sequence.
MTH-122 Math for Teachers II 3
MUS-107 Music Appreciation 3
PEH-181 Fundamentals of Rhythmical Movement 2
Science elective to complete sequence 4
SOC-102 Marriage and Family 3

* Recommended

A pre- or corequisite may be required for some courses.

## Paraprofessional Educator Certificate-31 credit hours <br> Curriculum Code 1270

This program prepares students for careers as teacher's aides in regular and special education classes in elementary and secondary schools, and in social agencies.
Employment of teacher aides is expected to grow faster than the average for all occupations. Many jobs will become available as the result of workers transferring to other occupations or leaving the labor force, as well as increasing student enrollments. An increasing number of teacher aides have been hired to assist teachers, and this trend should continue, with many working in special education and English as a second language.
Required General Education Courses-6 credits as follows:
COM-101 Composition I 3
COM-103 Speech Fundamentals
Required Career Courses-25 credits as follows:
EDU-100 Introduction to Education 3 EDU-102 Introduction to Paraprofessional Educator 3 EDU-103 Observation/Clinical Experience EDU-104 Introduction to the Foundations of Reading EDU-105 Classroom Management Technology for Educators $\begin{array}{lll}\text { EDU-110 } & \text { Technology for Educators } & 3 \\ \text { EDU-111 } & \text { Students with Disabilities in School } & 3\end{array}$ MTH-102 Mathematics for Paraprofessionals or MTH-121

Math for Teachers I 3 PSY-104 Life-Span Developmental Psychology 3

## Phlebotomy (Blood Collection)

## This program consists of one certificate.

## Certificate-9 credit hours

Curriculum Code 1306
Laboratory scientists, technologists and technicians require blood specimens that have been obtained promptly, efficiently and safely by qualified phlebotomists. The phlebotomist is an integral member of the laboratory team. This individual must be well trained in all aspects of specimen collection and processing. The phlebotomist must also be able to maintain high standards of professionalism with clients or patients. To ensure quality training is available to persons interested in this field of work, Moraine Valley has developed a training program in phlebotomy. This certificate program presents the basics of phlebotomy in three courses consisting of nine credit hours.
Employment opportunities for phlebotomists are widespread. The growth is driven by the increased medical needs of an aging population and more diagnostic testing. Locally, the labor market is growing, primarily due to the increase in home health care services and employment opportunities with contract laboratory organizations.

## Accreditation/Approval

The Phlebotomy Program curriculum is approved by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). Moraine Valley's Phlebotomy Program is one of four programs in the nation to earn NAACLS charter approval.

## Certification

Program graduates are eligible to take the phlebotomy certification examination of their choice.

## Program Requirements

- Students must achieve a minimum passing grade of "C" (2.0) in both lecture and laboratory portions of Principles and Practice of Phlebotomy (PHB-110).
- Students must submit a completed health history and physical form signed by a physician prior to clinical assignment.
- Students are responsible for transportation to and from clinical affiliates.
- Students are responsible for securing their own uniform for clinical rotations.
- A complete high school transcript showing date of graduation or a GED certificate must be submitted to the coordinator prior to completion of the program.
- A liability insurance fee is required.
- The college requires that students have minimal health insurance coverage during the clinical experience.
- A criminal background check must be successfully completed before a clinical assignment is made.
- A drug screening must be successfully completed before a clinical assignment is made.
- A student must be 18 years of age or older before being assigned to a clinical rotation.
- Students must complete the Moraine Valley HIPAA training session.


## Program Calendar

Students may complete the program in any two consecutive semesters. Students may opt to complete their clinical rotations at any time within one year of their completion of PHB-110.

Required Career Courses-9 credits as follows:
PHB-110 Principles and Practice of Phlebotomy 6
PHB-111 Phlebotomy Clinical Practice Seminar 1
PHB-112 Phlebotomy Clinical Practice 2

## Polysomnography Technologist

## This program consists of one certificate.

## Certificate- 25 credit hours

Curriculum Code 1441
This certificate program prepares graduates for careers as polysomnographic technologists in sleep disorder centers. Technologists operate, monitor and troubleshoot computerized sleep equipment, collecting and analyzing physiologic patient data. PSG technicians also work closely with physicians and other sleep specialists participating in patient education and treatment plan coordination. The curriculum includes cardiopulmonary anatomy and physiology, normal and abnormal sleep, and diagnostic and therapeutic techniques performed by polysomnographic technologists. Most PSG positions are on a 10- or 12-hour midnight schedule.
Admissions Requirements-See admission to Health Science Programs in the Admission and Registration section of this catalog, pg. 13.
Fees-Fees associated with the polysomnography program include use of equipment, supplies and malpractice insurance. Additional expenses include the cost of uniform, travel and parking at the clinical site, physical examination, CPR course, criminal background check, and drug screening.
Health Physical—Prior to clinical placement, admitted students must submit a complete health history and physical form signed by the applicant and physician. The health physical includes laboratory tests and immunizations required by clinical affiliates. Questions about the health physical should be directed to the program coordinator. Health physical forms may be obtained from the Admissions Office. The student is encouraged to maintain a copy of all health physical information submitted to the program.

Additional Requirements-A current health care provider level CPR card from the American Health Association is required for clinical placement. A criminal background check is required and drug screen may be required by the clinical affiliate prior to clinical placement.

Re-Application-Applicants not selected for one starting class are responsible for reactivating and updating their application file for subsequent starting classes. Re-applicants must complete a new polysomnography admission application and submit to the Admissions Office during the application period as stated in the Admissions and Registration section of this catalog.

Required Career Courses-25 credits as follows:
BIO-115 Anatomy and Physiology 5
MRT-110 Medical Terminology 3
MRT-130 Computers in Allied Health 1
PSG-105 Polysomnography Patient Care I 4
PSG-110 Cardiopulmonary Physiology 3
PSG-115 Polysomnography Patient Care II 4
PSG-120 Polysomnography Clinical Application 4
RES-200 EKG Application and Theory 1
Note: PSG-105 and 110 are corequisites PSG-115 and 120 are corequisites

[^28]
## Security Services

## This program consists of one certificate.

## Certificate-11 credit hours

Curriculum Code 1307
This program provides students with basic training in security services. While completing coursework, students can also complete non-credit industry security-related certification: a 20-hour Unarmed Security non-credit industry certification and a 40 -hour Armed Security Guard non-credit industry certification. Students must be 21 years of age to complete the 40-hour Armed Security Guard non-credit industry certification.

Students who complete the Security Services certificate program may use all completed credit hours to pursue the related Criminal Justice A.A.S. degree.

| Required Career Courses-10 credits as follows: |  |  |
| :--- | :--- | :--- |
| LAN-103 | Security Awareness IT | 1 |
| CRJ-104 | Investigation and Criminal Evidence | 3 |
| SLP-100 | Unarmed Security Guard Training | 3 |
| SLP-101 | Introduction to Security | 3 |
| SLP-219 | Contemporary Issues: Security | 2 |
| Elective Cources—Select 1 credit from the following: |  |  |
| SLP-103 | Armed Security Guard Training | 1 |
| SLP-210 | Special Topics in Security | 1 |

## Radiologic Technology

This program consists of one degree.

## A.A.S. Degree-72 credit hours

## Curriculum Code 1240

Prepares graduates for professional careers in the medical health field. Graduates are eligible for employment in hospitals, clinics and physicians' offices. The program includes instruction in radiologic technique theory, patient positioning for diagnostic procedures and progressive clinical experience.

Admitted students who wish to earn an Associate in Science degree in addition to an Associate in Applied Science degree should consult with an advisor in the Academic Advising Center.
Employment of radiologic technologists is expected to grow as fast as the average for all occupations, as the health care industry grows and because of the vast clinical potential of diagnostic imaging and therapeutic technology. However, while a significant increase in radiologic technologist employment is anticipated, job seekers are likely to face competition from many other qualified applicants for most openings.

## Accreditation

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

## Admission Requirements

See Admission to Health Science Programs in the Admission and Registration section of this catalog, page 13.
Health Physical/Re-Application—Prior to enrollment, admitted students must submit a completed health history and physical form including drug screening signed by a physician.

Applicants not selected for one starting class are individually responsible for reactivating and updating their application file for subsequent starting classes. Re-applicants must complete a new application form and submit it to the Admissions Office during the applicable time period.
Transfer Students—Placement is considered on an individual basis.

## Certification

Program graduates are eligible to take the national examination of the American Registry of Radiologic Technologists.

## Program Requirements

- Students must earn a grade of "C" (2.0) or better in each required career course (theory and clinical).
- Students are responsible for transportation to and from clinical affiliates.
- Students are responsible for securing uniforms.
- A liability insurance fee is required.
- The college requires that students have minimal health insurance coverage.
- Successful completion of a criminal background check.


## Program Calendar

For students who attend full time, this 26-month program starts in June of each year and includes two academic years and three summer sessions. Students who attend part-time may complete their general education courses prior to program enrollment. The required biology and mathematics courses must be completed within five years of program admission. Exceptions may be granted on an individual basis upon approval of the program coordinator. The required career courses must be taken in the sequence shown in the next section.

Required General Education Courses-19 credits as follows:
BIO-180 Human Anatomy and Physiology I 4
BIO-181 Human Anatomy and Physiology II 4
COM-101 Composition I
COM-103 Speech Fundamentals
MTH-109 Math for Allied Health
Select a minimum of 3 credits from ANT, ECO, GEO, HIS, PSC, PSY, SOC, SSC

Required Career Courses in Sequence-53 credits as follows:

MRT-110 Medical Terminology

3

MRT-130 Computers for Allied Health 1
PHB-105 Phlebotomy for Health Care Providers 1
RAD-127 Introduction to Radiologic Technology 1
RAD-129 Radiation Protection 1
RAD-130 Principles of Radiographic Exposure 3
$\begin{array}{ll}\text { RAD-131 } & \begin{array}{l}\text { Principles of Radiographic } \\ \text { Positioning I }\end{array}\end{array}$
$\begin{array}{lll}\text { RAD-132 } & \begin{array}{l}\text { Principles of Radiographic } \\ \text { Positioning II }\end{array}\end{array}$
RAD-133 Principles of Radiologic Technology 2
RAD-136 Radiology Internship I 3
RAD-138 Radiology Internship II 3
RAD-140 Radiographic Processing 1
RAD-141 Pediatric Radiography 1
RAD-145 Radiology Internship III 3
RAD-240 Radiologic Physics 4
RAD-241 Advanced Radiologic Technology I 3
RAD-243 Application of Radiography to Pathology 1
RAD-244 Radiobiology 2
RAD-245 Advanced Radiology Internship I 5
RAD-246 Advanced Radiology Internship II 5
RAD-248 Departmental Administration 1
RAD-250 Radiographic Equipment and Imaging Modalities 3

[^29]
## Recreation Management

This program consists of one degree.

## A.A.S. Degree-64 credit hours

## Curriculum Code 1261

Prepares graduates for professional careers in the recreation industry. Graduates are eligible for employment in park districts, corporate recreation, commercial recreation, and employee recreation. The program includes instruction in facility management, program planning, budgeting, computer skills, and public relations. Graduates may apply for Illinois Parks and Recreation Association certification.
Employment of recreation leaders is expected to grow as fast as the average for all occupations as growing numbers of people possess both the time and money to purchase leisure services. Growth in these jobs will stem from an increased interest in fitness and health, and the rising demand for recreational opportunities for older adults in senior centers and retirement communities.

| Required General | Education Courses-25 credits as follows: |  |
| :--- | :--- | :--- |
| BIO-111 | General Biology I | 4 |
| COM-101 | Composition I | 3 |
| COM-102 | Composition II | 3 |
| COM-103 | Speech Fundamentals | 3 |
| MTH-120 | General Education Mathematics | 3 |
| PSY-101 | Introduction to Psychology | 3 |
| SOC-101 | General Sociology | 3 |
| Select three credits from ARB, ART, FRE, GER, HUM, JPN, |  |  |
| LIT, MUS, PHI, SPA, THE |  |  |
| Required Career | Courses-30 credits as follows: | 3 |
| IMS-115 | Introduction to PC Applications |  |
| REC-101 | Recreation and Wellness Professions | 3 |
| REC-102 | Older Adult Recreation and Wellness | 3 |
| REC-120 | Recreation Programming | 3 |
| REC-124 | Facility Management | 3 |
| REC-180 | Perceptual Motor Development | 3 |
| REC-182 | Recreation for Special Populations | 3 |
| REC-201 | Applied Leadership Essentials | 3 |
| REC-205 | Professional Issues | 3 |
| REC-233 | Recreation Management Practicum | 3 |
| REC-237 | Recreation Management Seminar | 3 |
| Electives-Select | credits from the following: | 3 |
| ART-107 | Arts and Crafts | 3 |
| BUS-110 | Legal Environment in Business | 3 |
| BUS-231 | Principles of Management | 3 |
| CCA-106 | Creative Activities/Young Child | 3 |
| COM-201 | Business and Technical Writing | 3 |
| IMS-101 | Introduction to Computer Systems | 3 |
| LSC-109 | Tour/Itinerary Planning | 3 |
| LSC-110 | Fundamentals of Meeting Planning | 3 |
| PEH-170 | First Aid | 3 |
| PEH-190 | Outdoor Recreation and Nature Study | 3 |
| PSY-201 | Industrial/Organizational Psychology | 3 |
| RTM-101 | Introduction to Hospitality Industry | 3 |
| SLP-106 | Crisis Management | 3 |
| THE-150 | Creative Dramatics | 3 |
|  | 3 |  |

## Recreation Therapy

## This program consists of one degree.

## A.A.S. Degree-63 credit hours <br> Curriculum Code 1259

Prepares graduates for professional careers in recreation therapy. Graduates are eligible for employment in physical rehabilitation centers, medical rehabilitation centers, hospitals, long-term care, skilled care, adult day care, alcohol and drug treatment centers, special recreation associations, and mental health agencies. The program includes instruction in program planning, disability information, leadership techniques, and public relation skills.

Employment of recreation therapists is expected to grow because of anticipated expansion of long-term care, physical and psychiatric rehabilitation, and services for the disabled. Hospitals will provide a large number of recreation therapy jobs, with additional jobs provided by long-term rehabilitation and psychiatric hospitals. The rapidly growing number of older persons is expected to spur job growth for activity directors in nursing homes, retirement communities, adult day care programs and social service agencies. Continued growth is expected in community residential facilities, park districts and day care programs for people with disabilities.

| Required General |  | Education Courses-26 credits as follows: |
| :--- | :--- | :--- |
| BIO-115 | Anatomy and Physiology |  |
| COM-101 | Composition I | 5 |
| COM-102 | Composition II | 3 |
| COM-103 | Speech Fundamentals | 3 |
| MTH-098 | General Education Mathematics | 3 |
| PSY-101 | Introduction to Psychology | 3 |
| SOC-101 | General Sociology | 3 |
| Select three credits from ARB, ART, FRE, GER, HUM, JPN, LIT, | 3 |  |
| MUS, PHI, SPA, THE | 3 |  |
| Required Career Courses-27 credits as follows: | 3 |  |
| REC-101 | Recreation and Wellness Professions |  |
| REC-102 | Older Adult Recreation and Wellness | 3 |
| REC-180 | Perceptual Motor Development | 3 |
| REC-182 | Recreation for Special Populations | 3 |
| REC-201 | Applied Leadership Essentials | 3 |
| REC-205 | Professional Issues | 3 |
| THR-150 | Recreation Therapy Techniques I | 2 |
| THR-152 | Recreation Therapy Techniques II | 3 |
| THR-233 | Recreation Therapy Practicum | 3 |
| THR-237 | Recreation Therapy Seminar | 3 |

Electives-Select 10 credits from the following:
Electives to enhance skills identified to be important in the field. ADC-101 Introduction to Addiction Counseling 3
CRJ-107 Juvenile Delinquency and Procedures 3
MRT-110 Medical Terminology 3
PEH-160 Fundamentals of Human Movement 3
PEH-170 First Aid 3
PEH-171 A Healthy Lifestyle and You 3
PEH-190 Outdoor Recreation and Nature Study 3
PSR-120 Survey of Psychiatric Rehabilitation 3
PSR-125 Psychiatric Rehabilitation Skills 3
PSR-130 Health Skills for Psychiatric Rehabilitation 3
Select one credit hour from the following PEH courses:
105, 107, 108, 120, 140
Electives to ease transfer for those interested students.
PSY-104 Life-Span Developmental Psychology 3
PSY-105 Child Psychology 3
PSY-106 Adolescent Psychology 3
PSY-205 Abnormal Psychology 3
PSY-210 Adult Psychology 3
SPA-101 Spanish I 4
SPA-102 Spanish II 4

[^30]
## Respiratory Therapy Technology <br> This program consists of one degree.

## A.A.S. Degree-71 credit hours

## Curriculum Code 1241

Prepares students as critical-care specialists to assist a primarycare physician in managing patients with serious heart and lung disorders. Respiratory therapists are responsible for administering medical gases, managing electronic monitoring equipment, controlling life-support systems, and handling various medical emergencies. Related responsibilities may include diagnostic testing of breathing disorders, rehabilitation of patients with long-standing pulmonary disease, and asthma education.

Admitted students who wish to earn an Associate in Science degree in addition to an Associate in Applied Science degree should consult with the Allied Health and Nursing Program advisor in the Academic Advising Center.

Job opportunities are expected to remain good. Employment of respiratory therapists is expected to increase much faster than average because of substantial growth of middle-aged and elderly populations. Locally, the labor market should grow much faster than average for licensed therapists due to changes in Illinois licensing law. It is expected that licensed therapists will be in high demand due to the legislative changes.

Accreditation-Accredited by the Commission on Accreditation for Respiratory Care (CoARC).

Admission Requirements-See Admission to Health Science Programs in the Admission and Registration section of this catalog, page 13.

Fees-Fees associated with the Respiratory Therapy Technology Program include use of equipment, supplies, and malpractice insurance. Additional expenses include the cost of a uniform, transportation to and parking at clinical sites, physical examination, a CPR course, criminal background check, drug screening, and national board practice exams. Membership to the American Society for Respiratory Care is required to attend the Illinois Society for Respiratory Care Conference during the summer semester.

Health Physical—Prior to clinical placement, students must submit a complete health history and physical form including drug screening signed by the applicant and physician. The health physical includes laboratory tests and immunizations required by clinical affiliates. Questions about the health physical should be directed to the program coordinator. Health physical forms may be obtained from the Admissions Office. The student is encouraged to maintain a copy of all health physical information submitted to the program.

Re-Application-Applicants not selected for one starting class are individually responsible for reactivating and updating their application file for subsequent starting classes. Re-applicants must complete a new application form and submit it to the Admissions Office during the applicable time period.
Readmission-Upon withdrawal or failure to maintain a minimum grade of " C " in any required course in the Respiratory Therapy Program, students must receive permission from program faculty before they may be considered for readmission. They must also meet any current requirements for readmission contained in the Program Policy Guide issued to students upon beginning the program. If all stipulations are met, readmission is still contingent on space-available considerations.

## Certification

Graduates of the Respiratory Therapy Program are qualified to take the Registry Examination administered by the National Board of Respiratory Care (NBRC) upon successful completion of the NBRC entry-level exam.

## Program Requirements

- Students must earn a grade of "C" (2.0) or better in each required career course (theory and clinical).
- Students are responsible for transportation to and from clinical affiliates.
- Students are responsible for securing uniforms.
- A liability insurance fee is required.
- The college requires that students have minimal health insurance coverage.
- Successful completion of a criminal background check.

Additional Requirements-A current health care provider level CPR card from the American Health Association is required for clinical placement. A criminal background check is required and drug screen may be required prior to clinical placement.

## Program Calendar

The two-year program starts in the fall term and includes five semesters, including one summer term. Students may complete general education requirements prior to program enrollment. The required biology, chemistry and mathematics courses must be completed within five years of program admission. Exceptions may be granted on an individual basis by the program coordinator. The required career courses must be taken in sequence.

Required General Education Courses-30 credits as follows:
BIO-119 Introductory Microbiology 4
BIO-180 Human Anatomy and Physiology I 4
BIO-181 Human Anatomy and Physiology II 4
CHM-111 Fundamentals of Chemistry 4
COM-101 Composition I 3
COM-103 Speech Fundamentals 3
MTH-109 Math for Allied Health 2
PSY-104 Life-Span Developmental Psychology 3
Select three credits from Fine Arts and Humanities: ARB, ART, FRE, GER, HUM, JPN, LIT, MUS, PHI, SPA, THE

3

[^31]Required Career Courses in Sequence-41 credits as follows:
MRT-110 Medical Terminology 3
RES-101 Foundations of Respiratory Care 3
RES-102 Fundamentals of Medical Gas Therapy 5
RES-103 Pharmacology for Respiratory Therapy 3
RES-104 Airway Care and Gas Exchange 4
RES-105 Respiratory Therapeutic Modalities 5
RES-106 Patient and Ventilation Management 3
RES-107 Managing the Critically III Patient 2
RES-154 Respiratory Clinical Practice I 1
RES-157 Respiratory Clinical Practice II 1
RES-201 Neonatal/Advanced Respiratory Care 3
RES-202 Respiratory Care Capstone 3
RES-250 Respiratory Clinical Practice III 2
RES-251 Respiratory Clinical Practice IV 3

## Restaurant/Hotel Management

## This program consists of one degree and two certificates.

## A.A.S. Degree-66 credit hours

## Curriculum Code 1256

The Restaurant/Hotel Management curriculum applies smallbusiness management training to the hospitality industry in general, and the restaurant and hotel industry in particular. Management operations taught include personnel, inventory control, accounting, menu planning, food preparation, marketing, layout and design, front desk procedures, and catering.
Employment of restaurant and food service managers is expected to increase for all occupations through the year 2018. In addition to growing demand for managers, the need to replace managers who transfer to other occupations or stop working for a variety of reasons will create many new jobs. Job opportunities are expected to be best for persons with associate's or bachelor's degrees in restaurant and institutional food service management.

Required General Education Courses-22 credits as follows:
BUS-120
Business Mathematics
(MTH-098 or above can be substituted. BUS-120 is a course for students not intending to transfer to a four-year school.)
COM-101 Composition I
COM-103 Speech Fundamentals
ECO-101 Principles of Macroeconomics
or
ECO-102 Principles of Microeconomic
Select three credits from GEO-101, 102; PSY-101, 104;
SOC-101; SSC-101
Select three credits from ARB, ART, FRE, GER, HUM, JPN, LIT, MUS, PHI, SPA, THE
Select four credits from BIO, CHM, EAS, GEL,
NAT, PHS, PHY, or MTH-098 or above
Required Career Courses-36 credits as follows:
BUS-142 Financial Accounting
IMS-115 Introduction to PC Applications
RTM-100 Food Service Sanitation
RTM-101 Introduction to Hospitality Industry
RTM-102 Quantity Food Production I
RTM-202 Quantity Food Production II
RTM-205 Beverage Management
RTM-206 Menu Writing and Marketing
RTM-207 Food, Beverage and Equipment Purchasing
RTM-220 Concepts of Hospitality Cost Control
** RTM-230 Hospitality Portfolio
RTM-231 Hospitality Supervision

Program Electives-Select 8 credits from the following:
RTM-203 Garde Manger 4

RTM-204 Quantity Food Production III 4
RTM-208 Design and Maintenance of Food Service Facilities
RTM-209 Baking/Pastry I 4
RTM-210 Nutrition for Food Service Managers 3
RTM-211 Baking/Pastry II 4
RTM-222 Supervisory Housekeeping 3
RTM-223 Convention Management and Service 3
RTM-225 Banquet and Specialty Services 3
RTM-227 Front Office Procedures 3
RTM-233 Hospitality Internship 3

## Beverage Management

## Certificate-18 credit hours

## Curriculum Code 1414

This intensive program prepares students for entry-level positions in the beverage area of restaurants or hotels.

Required Career Courses-18 credits as follows:
RTM-100 Food Service Sanitation 2

RTM-205 Beverage Management 3
RTM-206 Menu Writing and Marketing 3
RTM-207 Food, Beverage and Equipment Purchasing
RTM-220 Concepts of Hospitality Cost Control 3
RTM-230 Hospitality Portfolio 1
RMT-231 Hospitality Supervision 3

## Restaurant/Hotel Management

Certificate- 35 credit hours
Curriculum Code 1254
Prepares students for entry-level positions in the hospitality industry.

Required Career Courses-29 credits as follows:
COM-101 Composition I 3
RTM-100 Food Service Sanitation 2
RTM-101 Introduction to Hospitality Industry 3
RTM-102 Quantity Food Production I 4
RTM-202 Quantity Food Production II 4
RTM-205 Beverage Management 3
RTM-206 Menu Writing and Marketing 3
RTM-207 Food, Beverage and Equipment Purchasing 3
RTM-220 Concepts of Hospitality Cost Control 3
RTM-230 Hospitality Portfolio 1
Electives-Select 6 credits from the following:
RTM-222 Supervisory Housekeeping 3
RTM-223 Convention Management and Service 3
RTM-225 Banquet and Specialty Services 3
RTM-227 Front Office Procedures 3
** RTM-231 Hospitality Supervision 3 RTM-233 Hospitality Internship 3
** Required to satisfy the National Restaurant Association's (NRA) Management Development Diploma Program

## Small Business Management

This program consists of one degree.

## A.A.S. Degree-63 credit hours

## Curriculum Code 1411

This program is designed to provide students with the specific skills and abilities to operate a new business, or to improve operations in an existing small business. This program includes an internship/seminar component.

Small business managers are employed in a variety of industries and capacities nationwide. Due to the nature of small businesses, starting salaries vary greatly.
Required General Education Courses-19 credits as follows:
BUS-120 Business Mathematics
or
MTH-120 General Education Mathematics
or above (recommended for transfer students) 3
COM-101 Composition I 3
COM-103 Speech Fundamentals 3
ECO-101 Principles of Macroeconomics 3
Four credits from BIO, CHM, EAS, GEL, NAT,
PHS, PHY, or MTH-098 or above
4
Three credits from ARB, ART, FRE, GER, HUM, JPN, LIT, MUS, PHI, SPA, THE

3
Required Career Courses-38 credits as follows:
BUS-100 Introduction to Business
BUS-105 Small Busin Manasent 3
or
BUS-136 Business Law 3
BUS-130 Principles of Marketing 3
BUS-135 Personal Finanace 2
BUS-142 Financial Accounting 4
BUS-145 Computer Applications in Accounting
or
OSA-122 Electronic Spreadsheets 3
BUS-170 Introduction to Human Resources 3
BUS-226 Business Ethics 3
BUS-231 Principles of Management 3
BUS-233 Internship 3
$\begin{array}{lll}\text { BUS-237 } & \text { Seminar } & 1 \\ \text { IMS-115 } & \text { Introduction to PC Applications } & 3\end{array}$

Electives-Select 6 credits from the following: BUS-131 Principles of Retailing 3
BUS-133 Salesmanship 3
BUS-134 International Business 3
BUS-143 Managerial Accounting 4
BUS-148 Introduction to Finance 3
BUS-155 Display and Visual Merchandising 3
BUS-200 Consumer Behavior 3
BUS-215 Employee Training and Development 3
BUS-230 Advertising 3
BUS-232 Human Resources Management 3
MIS-111 Internet Technologies 3
MIS-210 Project Management 3
OSA-230 Business Presentations 3
PSY-201 Industrial/Organizational Psychology 3

[^32]Stationary Engineer
A.A.S. Degree-62 credit hours

Curriculum Code 1329
This program is designed to prepare students for employment at the management level in the construction industry.

Required General Education Courses-17 credit hours as follows: COM-101 Composition I
COM-103
Select four credits from
Select three credits from ANT, ECO, GEO, HIS, PSC, PSY, SOC, SSC
Select four credits from BIO, CHM, EAS, GEL, NAT, PHS, PHY
Required Career Courses-36 credit hours as follows:
HAC-105 Air Conditioning Theory
HAC-111 Introduction to Controls
HAC-115 Basic Service Procedures
HAC-140 Sheet Metal Hand Forming
HAC-150 Advanced Control Systems
HAC-154 Installation and Service
HAC-158 Introduction to Heating
HAC-180 Electronic Controls
HAC-240 HVAC Troubleshooting
Electives-Select 9 credits from the following:
BUS-110 Legal Environment in Business 3
BUS-136 Business Law 3
BUS-226 Business Ethics 3
COM-102 Composition II 3
HIS-101 Western Civilization I 3
HUM-135 or African and Middle Eastern Humanities 3
HUM-140 or Asian and Oceanic Humanities 3
HUM-145 Native American Humanities 3
IMS-115 Introduction to PC Applications 3
SOC-210 Minority Groups 3

## HAC Stationary Engineer <br> Certificate-44 credit hours <br> Curriculum Code 1326

The purpose of this certificate is to prepare students to repair and maintain heating, air conditioning and refrigeration equipment in commercial and industrial high-rise environments.

Required General Education Courses-13 credits as follows:
COM-101 Composition I 3

COM-103 Speech Fundamentals 3
MTH-095 Beginning Algebra 4
IMS-115 Introduction to PC Applications 3
Required Career Courses-31 credits as follows:
HAC-105 Air Conditioning Theory 3

HAC-111 Introduction to Controls 4
HAC-115 Basic Service Procedures 4
HAC-140 Sheet Metal Hand Forming 4
HAC-150 Advanced Control Systems 4
HAC-154 Installation and Service 4
HAC-158 Introduction to Heating 4
HAC-180 Electronic Controls 4

## Supply Chain Management

## Certificate-17 credit hours

## Curriculum Code 1319

This six-course, application-based certificate program provides a solid foundation in all facets of supply chain network, operations management and cargo security. Students will address both domestic and global issues in supplier and customer relations, value-added product differentiation, cost management, customs/security compliance, and the basic professional skills required to succeed within this industry. These courses have been designed based on current industry needs and in consultation with logistics and supply chain leaders.
The U.S. Bureau of Labor Statistics reports that employment in the transportation industry is expected to increase locally and nationally. Moraine Valley's district is located in a transportation hub which encompasses businesses tied to air, land, water, and rail. Students participating in this program will gain background for entry-level and trainee positions or, if currently employed in the industry, enhanced professional knowledge and career advancement potential.

Required Career Courses-17 credits as follows:
TDL-101 Transportation \& Logistics Overview 3
TDL-102 Job Skills for Competitive Advantage 3
TDL-103 Transportation 3
TDL-104 Introduction to Import/Export 3
TDL-105 Principles of Operations Management 3
TDL-106 Cargo Security 2

[^33]
## Travel Business Management

This program consists of one degree and two certificates.

## A.A.S. Degree-62 credit hours

## Curriculum Code 1288

The primary goal of this program is to give students an opportunity to develop the professional skills and expertise necessary to pursue a career in the travel industry.

| Required General Education Courses-21 credits as follows: |  |  |
| :---: | :---: | :---: |
| COM-101 | Composition I | 3 |
| COM-103 | Speech Fundamentals | 3 |
| Select six credits from ANT, ECO, GEO, HIS, PSC, PSY SOC SSC |  |  |
| Select six credits from ARB, ART, FRE, GER, HUM, JPN, LIT, MUS, PHI, SPA, THE |  |  |
| Select three credits from BIO, BUS-120, CHM, EAS, GEL, NAT, PHS, PHY, MTH-120 or above |  |  |
| Required Career Courses-17 credits as follows: |  |  |
| IMS-115 | Introduction to PC Applications | 3 |
| LSC-106 | Introduction to Travel Planning | 3 |
| LSC-130 | Airline Ticketing I | 3 |
| LSC-133 | Client Communications | 2 |
| LSC-140 | Airline Computing-SABRE |  |
| or |  |  |
| LSC-141 | Airline Computing-APOLLO | 3 |
| LSC-214 | Destination Planning-North America | 3 |
| Business Electives-Select a minimum of 9 credits from the following: |  |  |
| BUS-100 | Introduction to Business | 3 |
| BUS-130 | Principles of Marketing | 3 |
| BUS-133 | Salesmanship | 3 |
| BUS-134 | International Business | 3 |
| BUS-231 | Principles of Management | 3 |
| Program Electives-Select a minimum of 15 hours from the following: |  |  |
| BUS-107 | Basic Bookkeeping | 2 |
| LSC-108 | International Travel | 3 |
| LSC-109 | Tour/Itinerary Planning | 2 |
| LSC-110 | Fundamentals of Meeting Planning | 3 |
| LSC-122 | Special Events Management | 3 |
| LSC-131 | Airline Ticketing II | 2 |
| LSC-140 | Airline Computing-SABRE |  |
| or |  |  |
| LSC-141 | Airline Computing-APOLLO | 3 |
| LSC-210 | Travel Agency Management | 2 |
| LSC-225 | Cruising: A-Z | 2 |
| * LSC-234 | Internship-Travel | 3 |
| ** LSC-238 | Seminar-Travel | 1 |
| OSA-100 | Keyboarding I | 1-3 |
| REC-101 | Recreation and Wellness Professions | 3 |

COM-103 Speech Fundamentals 3
Select six credits from ANT, ECO, GEO, HIS, PSC,
PSY, SOC, SSC

LSC-133 Client Communications
ting-SABRE

LSC-141 Airline Computing-APOLLO
LSC-214 Destination Planning—North America
3
credits from the following:
BUS-130 Principles of Marketing 3
BUS-133 Salesmanship 3
BUS-134 International Business 3
Program Electives-Select a minimum of 15 hours from the following:
BUS-107 Basic Bookkeeping 2
LSC-109 Tour/Itinerary Planning 2
LSC-110 Fundamentals of Meeting Planning 3
LSC-122 Special Events Management 3
LSC-131 Airline Ticketing II 2
LSC-140 Airline Computing—SABRE
LSC-141 Airline Computing—APOLLO 3
LSC-210 Travel Agency Management 2
LSC-225 Cruising: A-Z 2
** LSC-238 Seminar-Travel 1
OSA-100 Keyboarding I 1-3
REC-101 Recreation and Wellness Professions 3

## Meeting Planner

## Certificate- 30 credit hours

Curriculum Code 1465
This program prepares the student for a career in the meeting planning/special events industry.
Required General Education Courses-6 credits as follows:
COM-101 Composition I 3

COM-103 Speech Fundamentals 3
Required Career Courses-24 credits as follows:
BUS-100 Introduction to Business 3
BUS-120 Business Mathematics 3
IMS-115 Introduction to PC Applications 3
LSC-106 Introduction to Travel Planning 3
LSC-110 Fundamentals of Meeting Planning 3
LSC-122 Special Events Management 3
LSC-133 Client Communications 2
LSC-214 Destination Planning—North America 3
OSA-100 Keyboarding I 1
$\dagger$ A minimum level of competency in mathematics is required for graduation for all A.A.S. degrees. This minimum competency may be demonstrated in one of two ways:

1. Placement in MTH-098 or higher; or
2. Successful completion of BUS-120, or MTH-095 or higher, or equivalent course at another college, with a grade of " $C$ " or higher.
** LSC-234 and 238 must be taken together. Students should contact the program coordinator one semester prior to enrollment.
[^34]
## Travel-Tourism

## Certificate-26 credit hours

## Curriculum Code 1289

This program provides entry-level technical knowledge, skills and attitudes necessary for employment in the travel-tourism industry.

Required Career Courses-21 credits as follows:
LSC-106 Introduction to Travel Planning 3

LSC-108 International Travel 3
LSC-130 Airline Ticketing I 3
LSC-131 Airline Ticketing II 2
LSC-133 Client Communications 2
LSC-140 Airline Computing-SABRE
or
LSC-141 Airline Computing—APOLLO 3
LSC-214 Destination Planning—North America 3
LSC-225 Cruising: A-Z 2
Electives-Select 5 credits from the following:
IMS-115 Introduction to PC Applications 3
LSC-109 Tour/Itinerary Planning 2
LSC-110 Fundamentals of Meeting Planning 3
LSC-122 Special Events Management 3
LSC-140 Airline Computing-SABRE
or
LSC-141 Airline Computing—APOLLO 3
LSC-210 Travel Agency Management 2
** LSC-234 Internship—Travel 3
** LSC-238 Seminar-Travel 1
OSA-100 Keyboarding I 1-3

PEH-170 First Aid 3
REC-101 Recreation and Wellness Professions 3
RTM-223 Convention Management and Service 3
RTM-227 Front Office Procedures 3
** LSC-234 and 238 must be taken together. Students should contact the program coordinator one semester prior to enrollment.

## Voice and Data Specialist

This program consists of one degree and three certificates.

## A.A.S. Degree-63 credit hours <br> \section*{Curriculum Code 1435}

This career path prepares students for entry-level positions as an Internet or Web site specialist in the information technology profession. Common career titles include Web site manager, Web site administrator, WAN specialist, WAN design specialist, WAN engineer, and many others. The Internet Specialist Program prepares students for rewarding careers at the forefront of the information technological revolution.
A first-year, full-time student schedule includes core courses in basic hardware and software, introduction to Internet technologies, Web page design, and networking fundamentals. Second-year students can select specialty tracks in technologies, including Cisco product specialist, Lotus Notes specialist, Microsoft specialist, or Novell specialist. This program helps students prepare for $\mathrm{A}+$, $\mathrm{N}+$, iNET+, CCNA, MCP, and CCNP certification. Graduates of this program possess a wide range of product knowledge as well as hands-on experience in LAN, WAN and enterprise Web site design.

Employment of computing professionals is expected to increase much faster than average as technology becomes more sophisticated and organizations continue to adopt and integrate these technologies. Internet specialists are included among the fastest growing occupations. Job availabilities will be driven by growth in computer and data processing services, and thousands of additional positions will arise from the need to replace workers who move into managerial positions, other occupations or who leave the labor force.
Required General Education Courses-18 credits as follows:

| COM-101 | Composition I |
| :--- | :--- |
| COM-103 | Speech Fundamentals |

Select 3 credits from Social/Behavioral Sciences: ANT, ECO, GEO, HIS, PSC, PSY, SOC, SSC
$\dagger$ Select 6 credits from Science/Math: BIO, CHM, EAS, GEL, NAT, PHY, PHS, or MTH-098 or above
Select 3 credits from Humanities/Language: ARB, ART, FRE, GER, HUM, JPN, LIT, MUS, PHI, SPA, THE

Required Career Courses-45 credits as follows:
Core IT Technology-18 credit hours as follows:
LAN-101 Orientation to IT Professions
LAN-103 Security Awareness
LAN-111 IT Essentials-A+
LAN-112 Managing IT-A+
LAN-121 Network Essentials-Network+
LAN-122 Network Services
LAN-246 Routing and Switching-CCNA

Internet Security Specialty Track-27 credits as follows:
LAN-102 Voice and Data Cabling 3
LAN-251 WLAN Design-CWNA 3
LAN-256 LAN Design-CCNA 3
LAN-266 WAN Design-CCNA 3
LAN-269 Advanced Routing 3
LAN-270 Converged Network Design 3
LAN-271 Multi-Layer Switch Network Design 3
LAN-272 Optimizing Converged Networks 3
LAN-274 Managing VoIP Services 3

## Cisco Network Associate

Certificate-20 credits
Curriculum Code 1447
Required Career Courses-20 credits as follows:
LAN-101 Orientation to IT Professions 1
LAN-121 Network Essentials-Network+ 3
LAN-122 Network Services 4
LAN-246 Routing and Switching-CCNA 3
LAN-251 WLAN Design-CWNA 3
LAN-256 LAN Design-CCNA 3
LAN-266 WAN Design-CCNA 3

## Cisco Network Professional

## Certificate-16 credits

Curriculum Code 1448
Required Career Courses-16 credits as follows:
LAN-101 Orientation to IT Professions 1
LAN-251 WLAN Design-CWNA 3
LAN-269 Advanced Routing 3
LAN-270 Converged Network Design 3
LAN-271 Multi-Layer Switch Network Design 3
LAN-272 Optimizing Converged Networks 3

## Microsoft Professional

Certificate-21 credits
Curriculum Code 1446
Required Career Courses-21 credits as follows:
LAN-101 Orientation to IT Professions 1

LAN-103 Security Awareness 1
LAN-111 IT Essentials-A+ 3
LAN-112 Managing IT-A+ 3
LAN-121 Network Essentials-Network+
LAN-122 Network Services
LAN-230 Managing Windows Servers
LAN-251 WLAN Design-CWNA


## Welding, Advanced

## This program consists of six certificates.

## Certificate-33 credit hours

Curriculum Code 1229
This program prepares students for employment in the welding field. Students gain experience in SMAW (stick), gas metal arc welding (mig), gas tungsten arc welding (tig), brazing, braze welding, oxy fuel and plasma cutting. Metallurgy, welding print interpretation, electrical welding circuits, and related safety procedures are also studied. Advanced training in pipe welding using the shielded metal arc process or advanced training in industrial problems are offered as options to this certificate. Once the student gains employment and experience in the field of welding this education makes the successful student eligible for advancement in the workforce.

Excellent opportunities are available for welders with the right skills set. Knowledgeable, well-trained and conscientious welders can find positions working in most industries. Trained welders are required due to new government regulations and personal safety requirements that dictate stricter codes. More products have emerged requiring certified and qualified welders.

Required General Education Courses-3 credits as follows:
** MTH Elective 3
Required Career Courses-26 credits as follows:
WLD-104 Electric Welding Circuits
WLD-105 Reading Welding Blueprints
WLD-111 Basic Arc/Gas Welding I
WLD-112 Basic Arc/Gas Welding II
WLD-113 Basic Metallurgy and Materials
WLD-121 Advanced SMAW and Cutting I
WLD-122 Advanced SMAW and Cutting II
WLD-123 MIG, TIG and Brazing I
WLD-124 MIG, TIG and Brazing II
3

Career Program Option-Minimum of 4 credits chosen from one of the following options:
Option I
WLD-137 Individual Welding Problems I 2
WLD-138 Individual Welding Problems II 2
Option II
WLD-137 Individual Welding Problems I 2
WLD-160 Visual Inspection of Welds 2
Option III
WLD-140 Basic Pipe Welding I 3
WLD-141 Basic Pipe Welding II 3
** MTH-090 will satisfy this requirement. Higher-level MTH course may be substituted. Course work below the 100 level does not earn college credit.

## Welding, Combination

Certificate-26 credit hours
Curriculum Code 1230
This program prepares students for employment in the welding field. Students gain experience in SMAW (stick), gas metal arc welding (mig), gas tungsten arc welding (tig), submerged arc welding flux, cored arc welding, brazing, braze welding, oxy fuel and plasma cutting. Welding print interpretation, electrical welding circuits, and related safety procedures are also studied. Once the student gains employment and experience in the field of welding this education gives the students the tools for a successful career.

Excellent opportunities are available for welders with the right skills set. Knowledgeable, well-trained and conscientious welders can find positions working in most industries. Trained welders are required due to new government regulations and personal safety requirements that dictate stricter codes. More products have emerged requiring certified and qualified welders.
Required General Education Courses-3 credits as follows:
** MTH Elective
3
Required Career Courses-23 credits as follows:
WLD-104 Electrical Welding Circuits 2
WLD-105 Reading Welding Blueprints 3
WLD-111 Basic Arc/Gas Welding I 3

* WLD-112 Basic Arc/Gas Welding II 3
* WLD-121 Advanced SMAW and Cutting I 3
* WLD-122 Advanced SMAW and Cutting II 3
* WLD-123 MIG, TIG and Brazing I 3
* WLD-124 MIG, TIG and Brazing II 3
** MTH-090 will satisfy this requirement. Higher-level MTH course may be substituted. Course work below the 100 level does not earn college credit.


## Individualized Welding

## Certificate-8 credit hours

Curriculum Code 1530
This program prepares the student for a career as an entry-level welder with specific skills required for an individual's preference.

Required Career Courses-8 credits as follows:
WLD-111 Basic Arc/Gas Welding I 3
WLD-112 Basic Arc/Gas Welding II 3
WLD-137 Individual Welding Problems I 2

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## Multi-Process Welding

## Certificate-9 credit hours

Curriculum Code 1532
This program prepares the student for a career as an entry-level welder with basic knowledge of several types of welding techniques.

Required Career Courses-9 credits as follows:
WLD-111 Basic Arc/Gas Welding I 3
WLD-123 MIG, TIG and Brazing I 3
WLD-124 MIG, TIG and Brazing II 3

## Pipe Welding

Certificate-18 credit hours
Curriculum Code 1531
This program prepares the student for a career as an entry-level welder with specific pipe welding skills required for the pipe welders union.

Required Career Courses-18 credits as follows:
WLD-111 Basic Arc/Gas Welding I 3

WLD-112 Basic Arc/Gas Welding II 3
WLD-121 Advanced SMAW and Cutting I 3
WLD-122 Advanced SMAW and Cutting II 3
WLD-140 Basic Pipe Welding I 3
WLD-141 Basic Pipe Welding II 3

## Shielded Metal Arc Welding

Certificate-9 credit hours
Curriculum Code 1529
This program prepares the student for a career as a basic stick welder. It will give a student one step up on entering the welding field.

Required Career Courses-9 credits as follows:
WLD-111 Basic Arc/Gas Welding I 3
WLD-112 Basic Arc/Gas Welding II 3
WLD-121 Advanced SMAW and Cutting I 3

## Cooperative Programs

Moraine Valley has cooperative agreements with 11 suburban community college districts that enable Moraine Valley district residents to enroll in occupational programs not currently offered by Moraine Valley at in-district tuition rates for that college.

Student who live outside Moraine Valley's district and wish to enroll in an eligible program at Moraine Valley should contact their home college to obtain necessary authorization.

Moraine Valley district residents who wish to enroll at a cooperating community college should contact the office of Enrollment Services at (708) 974-5346.
General education and related technical courses in these cooperative programs can be taken at Moraine Valley or at the cooperating college. Specialized career courses must be taken at the cooperating college.
Moraine Valley students can enroll in any program at the following colleges at the in-district rate if the program is not offered at Moraine Valley. For more information about cooperative agreements, check with the office of Enrollment Services at (708) 974-5346.

## Cooperating Colleges

## Heartland Community College

1500 Raab Rd.
Normal, IL 61761
(309) 268-8000

## Illinois Valley Community College

815 N. Orlando Smith Ave.
Oglesby, IL 61348-9692
(815) 224-2720

Joliet Junior College
1215 Houbolt Ave.
Joliet, IL 60431-8938
(815) 729-9020

## Kankakee Community College

P.O. Box 888

Kankakee, IL 60901-0888
(815) 933-0345

Kishwaukee College
21193 Malta Rd.
Malta, IL 60150-9699
(815) 825-2086

McHenry County College
8900 U.S. Hwy. 14
Crystal Lake, IL 60012
(815) 455-3700

## Morton College

3801 S. Central Ave.
Cicero, IL 60804-4398
(708) 656-8000

## Prairie State College

202 S. Halsted St.
Chicago Heights, IL 60411-8226
(708) 756-3516

## Richland Community College

One College Park
Decatur, IL 62521
(217) 875-7200

## South Suburban College

15800 S. State St.
South Holland, IL 60473-1270
(708) 596-2000

Waubonsee Community College
Route 47 at Waubonsee Drive
Sugar Grove, IL 60554-9454
(630) 466-7900

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## Course Descriptions

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Moraine Valley's courses meet a variety of students' needs. Course descriptions are listed by prefix and include the course code, credit hours (in parentheses), course title, pre- and corequisites, content description, and contact hours. Where appropriate, the Illinois Articulation Initiative general education core curriculum (IAI) are listed following the contact hours. See pages 50 and 51 for more information on the IAI. Not all courses are offered every year. See the subdivision dean or the department chair for information on courses that are offered on a rotational basis.

Prerequisite-coursework must be completed before enrolling in the designated class, often an introductory course.
Corequisite-you are required to take two designated courses during the same semester.

Consent of instructor-a course permission slip must be granted by the instructor.
IAI Code-meets the requirements of the Illinois Articulation Agreement.

## Key to Course Descriptions



Prerequisite: COM-101 with an earned grade of " C " or better. Analytical and critical writing based on the types of literature. Research is used to incorporate supporting ideas from critics in essays of literary analysis. A grade of "C" or better is required for this course to transfer under the guidelines of the Illinois Articulation Initiative (IAI). Fee is required. (3 contact hours) IAI: C1 901 Content Description

Contact Hours
Illinois Articulation
Initiative Code

## ADC-Addictions Studies

## ADC-100-(3)

## Human Development and Behavior

Provides basic principles of human development and behavior. Focus is on how chemical use, misuse, abuse and dependency affect normal growth and development. (3 contact hours)

## ADC-101-(3)

## Introduction to Addiction Counseling

Introduction to alcohol and other drug abuse counseling and processes. Focus is on assessment and diagnosis, the core functions of an alcohol and other drug abuse counselor, and basic counseling skills. Provides information on career opportunities, counselor certification requirements and procedures, and other aspects of the AODA counselor. (3 contact hours)

## ADC-106-(3)

## Theory and Practice of Counseling

Prerequisite: ADC-101 and ADC-202
Current theoretical counseling approaches will be discussed within the context of their history, philosophical base, key concepts, and client populations served. Students will be encouraged to explore their own philosophic base and skills to identify approaches for further study. (3 contact hours)

## ADC-108-(3)

## Treatment Delivery Models

Prerequisite: ADC-101
This course provides an introduction to the history of human services, the life and social problems addressed through human services, and public policies and systems developed in response to human service needs. (3 contact hours)

## ADC-110-(3)

## Common Behavior Disorders

This course provides an overview of the causes, assessment and treatment of common behavior disorders. It includes a review of organic-based syndromes, thought and effect disorders, and compulsive disorders such as gambling, sexual addiction, and eating disorders. Assessment and relapse prevention principles for the dually diagnosed client are also reviewed.
(3 contact hours)
ADC-112-(3)
Diversity in Addictions Counseling
Prerequisites: ADC-101 and ADC-202
This course examines treatment issues, techniques, and the development of programs related to diverse cultures and specialneeds groups such as adolescents, women, the elderly, and minority groups. Mixed cultural identities also are covered.
(3 contact hours)
ADC-202-(3)
Substance Use, Abuse and Dependency
Prerequisite: ADC-101
This course provides intensive instruction about alcohol and other drugs with emphasis on the differences between substance use, abuse and dependence, and the symptoms associated with each of these stages. The student will be able to recognize the signs and symptoms of each stage, the effects of substance abuse on the individual, the family, society, and a historical approach to intervention strategies. (3 contact hours)

ADC-204-(3)

## Psychopharmacology

Prerequisite: ADC-101
This course provides an introduction to the psychopharmacology of alcohol and other drugs, including physiological and biochemical processes, action, use, and route of administration. Intoxication screening and withdrawal symptoms will be addressed. (3 contact hours)

## ADC-206-(3)

## Group Counseling

Prerequisite: ADC-101 and ADC-202
Provides intensive instruction in the theory and practice of the group counseling approach used in alcohol and other drug abuse treatment. (3 contact hours)

## ADC-207-(3)

Family Dynamics and Counseling
Prerequisites: ADC-101 and ADC-202
This course provides intensive instruction in the theories of family dynamics and the practice of family counseling in a variety of human services settings. (3 contact hours)

## ADC-208-(3)

## Case Management

Prerequisite: ADC-101 and ADC-202
This course provides an introduction to case management principles and practices including assessment, service planning and documentation. (3 contact hours)

## ADC-210-(2)

## Diagnostic and Statistical Evaluation

Provides instruction in the use of the American Psychiatric Association Diagnostic and Statistical Manual of Mental Disorders in AODA assessment and treatment situations.
(2 contact hours)
ADC-211-(3)

## Compliance and Ethics

Prerequisites: ADC-101, ADC-202
This course is designed to present and review the compliance and ethical standards to which the addictions counselor is required to adhere. Students will be introduced to the State Division of Alcoholism and Substance Abuse (DASA) Rule 2060, the Illinois State Certification (IAODAPCA) Board Code of Ethics, Federal HIPAA privacy and security standards, and corporate compliance standards applicable to the field of addictions studies. (3 contact hours)

## ADC-215-(3)

## Employee Assistance Programs

Examines employee assistance programs. Focus is on components of the EAP, assessment and referral services, counseling in the EAP context, supervisory training, health promotion, and EAP issues. (3 contact hours)

## ADC-219-(2)

## Contemporary Issues: Alcohol/Drugs

Intended primarily for students interested in alcohol and other drug issues. The course examines basic policy problems: legislation, professionalism, education, training, literature and research, procedures, administration, and social problems. (2 contact hours)
This course may be taken four times for credit.

## ADC-220-(3)

## Preventionist I

Provides instruction in the skills and knowledge areas essential to AODA prevention programming. Preventionist core functions emphasized include record keeping, human development enhancement, community assessment, evaluation, public speaking, marketing, program development, written communication, and teaching and training. (3 contact hours)

## ADC-221-(3)

## Preventionist II

Prerequisite: ADC-220
Continues instruction in the skills and knowledge areas essential to AODA prevention programming. Preventionist core functions emphasized include social policy impact, linkage, resource development, consultation, working with volunteers, teaching and training, working with the media, and written communication. (3 contact hours)

## ADC-230-(1)

## Special Topics in Addiction Studies

Students work with instructor individually or in small groups to develop special projects designed to focus on specific addictions studies, chemical dependency, substance abuse, or related topics. ( 1 contact hour)
This course may be taken four times for credit.

## ADC-233-(3)

## Field Practicum

Prerequisite: Consent of practicum coordinator
Corequisite: Registration in ADC-237
Supervised practical exposure and involvement in chemically dependent treatment service delivery at an approved addictions counseling site. This course meets the minimum supervision requirements for counselor certification by the Illinois Alcohol and Other Drug Abuse Professional Certification Association. Fee is required. (5 contact hours)

## ADC-235-(3)

## Preventionist Practicum

Prerequisite: Consent of practicum coordinator
Corequisite: Registration in ADC-239
Supervised practical exposure and involvement in AODA prevention core functions. This course meets the minimum supervision requirements for preventionist certification by the Illinois Alcohol and Other Drug Abuse Professional Certification Association. (20 contact hours)
ADC-237-(1)

## Seminar

Prerequisite: Consent of practicum coordinator Corequisite: Registration in ADC-233
Discussion of supervised field service experience in Field Practicum. (1 contact hour)

## ADC-239-(1)

## Preventionist Seminar

Prerequisite: Consent of practicum coordinator
Corequisite: Registration in ADC-235
Discussion of supervised field service experience in the Preventionist Practicum. (1 contact hour)

ADC-243-(3)

## Advanced Field Practicum

Prerequisite: ADC-233 and consent of practicum coordinator Corequisite: ADC-247
This course provides supervised advanced-level exposure and involvement in chemical dependent treatment service delivery at an approved addictions counseling site. Successful completion of the course meets 250 (50\%) of the minimum supervision requirement of 500 hours for counselor certification by the Illinois Alcohol and Other Drug Abuse Professional Certification Association. Fee is required. ( 15 contact hours)

ADC-247-(1)
Advanced Seminar
Prerequisite: Consent of practicum coordinator
Corequisite: ADC-243
In this course students will discuss their supervised field experiences in ADC-243, Advanced Field Practicum. (1 contact hour)

## ANT-Anthropology

## ANT-201-(3)

## Introductory Physical Anthropology

Introduces the physical and cultural origins of humans, including study of primate behavior, fossil humans, development of tools, origins of agriculture, and development of early civilization. (3 contact hours) IAI: S1 902

## ANT-202-(3)

Introduction to Cultural Anthropology
Introduces nature, origins of culture, and diversity of recent or living cultures. Covers methods of field work, case studies, problems of acculturation, and the role of museums in presenting and preserving material culture. (3 contact hours) IAI: S1 901N

## ANT-205-(3)

## North American Indians

Surveys the archaeology and diverse cultures of native Americans, focusing on the earliest migrations to North America, the cultural achievements of the mound and pyramid builders, and the creative adaptations of specific Indian groups to various environments-past and present. (3 contact hours)

## ANT-210-(3)

## Introduction to Archaeology

Introduces archaeological concepts, research, and methods for studying prehistoric and present cultures. Surveys the origin and development of societies in all parts of the world as revealed by significant archaeological sites and material culture. Current archaeological investigations of local interest and ethical issues in archaeology are examined. (3 contact hours) IAI: S1 903

## ARB-Arabic

## ARB-101-(4)

## Arabic I

This course introduces students to modern standard Arabic. Practice focuses on developing basic knowledge and skills in pronunciation and recognition of the sounds of Arabic, reading and writing the Arabic script, grammar, reading and listening comprehension, and written composition. The course presumes no prior study of the language. (4 contact hours)

## ARB-102-(4)

## Arabic II

Prerequisite: ARB-101
This course develops existing basic abilities to communicate in speaking and writing modern standard Arabic. Practice focuses on increasing knowledge and skills in pronunciation, grammar, reading and listening comprehension, and written composition. The course builds on basic skills to read and write in the Arabic writing system, and knowledge of basic Arabic grammar.
(4 contact hours)

## ARB-201-(4)

## Arabic III

Prerequisite: ARB-102
Arabic 201 is the third in a series of Arabic courses. Instruction will build on skills taught in Arabic 101 and 102. The main focus of the course will continue to be the communicative skills. Students will learn the basic skills needed to communicate in Arabic, including comprehension, speaking, reading, and writing. Grammar will be introduced to facilitate communication. The course will be taught mainly in Arabic using Modern Standard Arabic. (4 contact hours)

## ARB-202-(4)

## Arabic IV

Prerequisite: ARB-201 or 4 years of high school Arabic
Arabic 202 is the fourth in the series of Arabic courses. This course will focus on using the skills developed in the previous three courses to effectively communicate verbally and in writing in the Arabic language. In addition to strong emphasis on developing Arabic communication skills, students will receive instruction in Arabic structure to ensure their knowledge and proper use of Modern Standard Arabic. Students will be introduced to authentic Arabic texts and audio from various Arab countries and will be exposed to native Arabic speakers to familiarize them with the major dialects of the various Arab regions. (4 contact hours)

## ART-Art

ART-101-(3)

## Drawing I

Introduces drawing principles and techniques. Covers form, design and perspective, and includes various drawing media techniques. Fee is required. ( 6 contact hours) IAIM: ART 904

## ART-104-(3) <br> Drawing II

Prerequisite: ART-101
A continuation of ART-101, this course emphasizes composition, perspective and visual interpretation. A variety of drawing media is used. Fee is required. ( 6 contact hours)

## ART-105-(3)

## Life Drawing

## Prerequisite: ART-101

Teaches techniques of human figure drawing using draped and undraped models. Various media, applying principles such as design, structure, composition, form and abstraction, are used. (6 contact hours)
ART-107-(3)
Arts and Crafts
Covers use of basic craft materials. Design and application of craft projects to various educational and leisure programs are covered. (6 contact hours)

## ART-110-(3)

## Art Appreciation

Introductory survey and analysis of the visual arts-painting, sculpture, architecture, photography, printmaking, and crafts-to acquaint non-art majors with basic aesthetic concepts: media, technique and function; elements and form; genres; stylistic characteristic and expressive qualities; and socio-cultural influences. (3 contact hours) IAI: F2 900

## ART-116-(3)

## Two-Dimensional Design

Introduces the basic principles and elements of two-dimensional design, including composition and use of color in visual art. Emphasizes application of original ideas in creation of original design. Fee is required. (6 contact hours)

## ART-117-(3)

## Color Theory

Theories, principles, elements of color, and their application in the visual arts are covered. Fee is required. (6 contact hours)

## ART-118-(3) <br> Three-Dimensional Design

Prerequisite: ART-116
Basic principles and elements of three-dimensional design are discussed. Includes volume, color, value, texture, and line. Emphasizes application of design concepts to original design. Fee is required. (6 contact hours)
ART-120-(3)
Beginning Painting
Prerequisite: ART-101
Introduces basic techniques and materials of oil and acrylic painting. Fee is required. (6 contact hours)

## ART-121-(3)

## Watercolor Painting

## Prerequisite: ART-101

Introduces basic techniques and materials of transparent and opaque watercolor painting. Fee is required. (6 contact hours)

## ART-122-(3)

## Intermediate Painting

Prerequisite: ART-120
Explores advanced painting techniques as applied to solving visual problems in oils, acrylics and watercolors. Fee is required. (6 contact hours)

## ART-125-(3)

## Ceramics I

Create clay forms using hand techniques and potter's wheel. Covers glazes, decorations and kiln firing. Explores design problems and solutions. Includes historical and cultural development of ceramics as an art form. Fee is required. ( 6 contact hours)

## ART-126-(3)

## Ceramics II

Prerequisite: ART-125
Applies basic pottery methods to create advanced ceramic forms. Presents experimental problems in glazes, mixing and firing. Applies historical, aesthetic and artistic principles to ceramics problems. Student exhibit is required. Fee is required. (6 contact hours)

## ART-146-(3)

## Introduction to Computer Art

Corequisite: Registration or credit in ART-101 and ART-116 or consent of instructor
Introduction to computer applications in the visual arts. A Macintosh computer software-based approach to visual image manipulation and generation is provided, including the integration of computer hardware, software and peripheral devices as tools to create and combine traditional and contemporary visual ideas. Involves both theoretical understanding and practical application in the utilization of computer hardware and software to capture, combine, manipulate, and generate two-dimensional visual images in both art and design. Fee is required. ( 6 contact hours)

## ART-150-(3)

## Sculpture

Prerequisite: ART-101
Introduces basic techniques of sculpture. Explores three-dimensional media. Applies additive, subtractive and manipulative approaches to creating three-dimensional works of art. Fee is required. (6 contact hours)

## ART-160-(3)

## Introduction to Photography

This studio course covers the basic principles of photography, including equipment, film processing, composition, and darkroom techniques. Students supply film, mount board, paper, and 35 mm manual camera. Fee is required. (6 contact hours)

## ART-161-(3)

## Camera and Darkroom Techniques

## Prerequisite: ART-160

This studio course develops expressive and technical skills in 35 mm camera usage and darkroom work through the exploration of various black-and-white films, chemistries, exposure systems and printing techniques. Through a series of complex photographic projects, students learn to think creatively with a camera, control exposure, and explore the photographic potential of various combinations of films and developers, printing papers, alternative printing techniques, and various lighting techniques. Students supply black-and-white film, mounting board, RC and fiber-based paper, and 35 mm manual camera. Fee is required. (6 contact hours)

ART-162-(3)

## Photographic Design

Prerequisite: ART-160
This studio course investigates the application of 2D design elements to explore the creative potential of the photographic medium. Students will utilize traditional and non-standard photographic processes to make images which implement specific design techniques. The use of design as a method of communicating ideas and concepts within photography will be explored. A series of conceptual and technical projects will emphasize joining specific techniques, materials and design elements to bring about a unique creative vision. Creative techniques of 35 mm camera work, black and white printing, studio work, and photographic manipulation techniques will be explored. Students supply black and white films, mounting board, RC and fiber-based paper, and 35 mm manual camera. Fee is required. (6 contact hours)

## ART-163-(3)

## Alternative Photographic processes

## Prerequisite: ART-160

This course is designed for intermediate level art and photography students who wish to explore non-standard photographic processes. A series of conceptual and technical projects will emphasize integration of digital imagemaking with hand-made photographic printing techniques to foster a unique creative vision. Areas of exploration include creative camera techniques, image acquisition and optical distortion techniques, digital image manipulation, hand-painted photographic emulsions, photo-based mixed media work, and photographic manipulation. Students supply various papers and other printing material, mounting board, professional quality inkjet transparency film and film or digital camera. Fee is required. (6 contact hours)

## ART-170-(3)

## Printmaking

Introduces basic printmaking techniques such as woodblock and silk screen. (6 contact hours)

## ART-171-(3)

## Printmaking II

Prerequisite: ART-170
This course is an in-depth exploration of relief, intaglio, and screenprinting techniques with an emphasis on developing conceptual skills and technical mastery within the framework of traditional and contemporary printmaking. New methods such as aquatint, multi-plate printing, transfer print processes, printing on alternative materials, and bookmaking are introduced. Students are encouraged to strengthen the balance between conceptual development and advanced technical facility. Fee is required. (6 contact hours)

## ART-180-(3)

## Digital Photography

Prerequisite: ART-146, ART-160 or consent of instructor
This art/graphic design studio course introduces photographic manipulation, emphasizing acquisition of the photographic image using appropriate software tools and palettes for basic manipulation techniques, color correction, image selection, masking, multiple layering, output including conversion to CMYK, duotones, as well as historical references and models. Fee is required. (4 contact hours)

## ART-182-(4)

## Digital Illustration

Prerequisite: ART-146 or consent of instructor
This art/graphic design studio course introduces vector-based computer illustration techniques. Investigates object-oriented graphics; curves and shapes; blending; patterns; and textures. Also examines the manipulation of type fonts as images. Fee is required. (6 contact hours)

## ART-184-(4)

## Digital Imaging

Prerequisite: ART-146 or consent of instructor
This art/graphic design studio course introduces computer imaging with bit-mapped graphics and rasterized images. Interaction between imaging and object-oriented software is explored. Fee is required. ( 6 contact hours)

## ART-186-(3)

## Digital Layout and Publishing

Prerequisite: ART-146 or consent of instructor
This art/graphic design studio course introduces desktop layout and publishing software. Requires the creation of both singleand multiple-page documents in black and white, as well as in color. Also covers document construction, integration of word processing programs, working with images and typography, custom colors, and output to printers or service providers. (4 contact hours)

## ART-203-(3) <br> History of Design

Provides students with a history of design from the industrial revolution to the present, including both industrial and graphic design. Covers the development of design, its major movements, prominent designers, and their significant contributions. (3 contact hours)

## ART-205-(3)

## Survey of Art I

A chronological survey of art, from prehistory through the Middle Ages. Included are artistic achievements of the Prehistoric, Ancient Near East, Ancient Egyptian, Greek, Roman, Early Christian, Byzantine, Carolingian, Ottoman Romanesque, Gothic periods, as well as major non-western art traditions including Islamic, Indian, Chinese, Japanese, the Pre-Columbian Americas, and Africa. Field trip required. (3 contact hours) IAI: F2901

## ART-206-(3)

## Survey of Art II

A chronological survey of art from the Proto-Renaissance through the mid-nineteenth century. Included are artistic achievements of both Western and Non-Western cultures. Styles and cultures include West Renaissance, Baroque, Rococo, Neoclassical, Romantic and Realistic periods. Non-Western covers India, China, Japan, Pacific cultures and Africa. Field trip required. (3 contact hours) IAI: F2 902

## ART-207-(3)

## Survey of American Art

A chronological survey of the development of the visual arts in the United States from the colonial period through the present day. Early European influences, post World War II art and the contemporary art scene are included. Field trip required. (3 contact hours)

## ART-208-(3)

## Survey of Art III

A chronological survey of modern art from the mid-19th century through the present time. Beginning with Impressionism, artistic achievements associated with the development of art through movements such as Post-Impressionism, Cubism, Surrealism, Abstraction, and Contemporary art forms will be included. Field trip required. (3 contact hours) IAI: F2 902

## ART-209-(3)

## Survey of Non-Western Art

A survey of non-Western art forms reflecting differing cultures and traditions found in the creative endeavors of Middle Eastern, South Asian, Far Eastern, Pre-Columbian Americas, Oceanian, and Subsaharan African artists. The impact of non-Western art on the contemporary art scene will also be discussed. Field trip required. (3 contact hours) IAI: F2 903N

## ART-230-(3)

Digital Design Internship
Prerequisite: ART-180, ART-182, ART-184, ART-186, and consent of internship coordinator or instructor
This internship provides an opportunity for students to learn firsthand how a computer artist/designer handles day-to-day assignments. Student interns either work directly with experienced designers approved by the Internship Coordinator or work on a freelance basis. They also attend a seminar for one hour per week to discuss internship activities and problems. and develop means to close the gap between theory and on-the-job reality. Fee is required. (11 contact hours)

## ART-231-(2)

## Art Seminar

Prerequisite: ART-101, ART-104 or ART-105, ART-116, ART118, and 6 credit hours from ART-205, ART-206, ART-207, ART-208 or ART-209 with a grade of "C" or better, and have the permission of the department chair of Fine Arts/Humanities.
This course is designed for the student who is planning on transferring to a four-year institution as an art major. Provides an opportunity for guidance in portfolio preparation and offers opportunities to learn about careers in the visual arts. Through field trips to artists' studios, lectures, critiques, and hands-on situations, gain a better understanding of the role of the artist in contemporary society. (2 contact hours)

## ART-232-(3)

## Digital Portfolio Development

Prerequisite: ART-180, ART-182, ART-184, ART-186, ART-248, or consent of instructor
This art/design studio course's primary orientation is the development of the student's portfolio. This course permits students to work on their portfolio for a semester in close contact with the instructor. Includes field trips to design organizations, galleries and museums to further enhance awareness of contemporary computer design. Fee is required. (4 contact hours)

## ART-246-(3)

## Advanced Computer Art

Prerequisite: ART-180, ART-182, ART-184, ART-186, ART-248, or consent of instructor
This art/graphic design studio course develops students' advanced skills in the digital creation and manipulation of visual images. This course permits students to work on computerdesigned projects in close contact with the instructor. Fee is required. (6 contact hours)

## ART-248-(3)

## Web Page Layout

Prerequisite: ART-180, ART-182, ART-184, ART-186, or consent of instructor
This art/graphic design studio course covers the development of well-designed Web site pages for the Internet and an intranet. Provides students with the tools to design their own home pages. Covers page planning, navigation, page layout tools, use of image maps. Uses appropriate software to enhance students' awareness of the latest technological advances. Fee is required. (4 contact hours)

ART-249-(3)<br>\section*{Intermediate Web Page Design}<br>Prerequisite: ART-180, ART-182, ART-184, ART-186, ART-248, or consent of instructor<br>Building on basic web page layout, this art/graphic design studio course opens up new design possibilities with the addition of sound, animation, and interactivity. Fee is required. (4 contact hours)

ART-280-(3)

## Independent Studio: Drawing

Prerequisite: Consent of instructor
This studio course is for students who have completed all course work in the discipline of drawing. Students enter into a contract with the instructor to complete an agreed-upon body of work and/or project. (6 contact hours)

ART-281-(3)

## Independent Studio: Painting

Prerequisite: Consent of instructor
This is a studio course for students who have completed all course work in the discipline of painting. Students enter into a contract with the instructor to complete an agreed-upon body of work and/or project. Fee is required. (6 contact hours)

## ART-282-(3) <br> Independent Studio: Ceramics

Prerequisite: Consent of instructor
This is a studio course for students who have completed all course work in the discipline of ceramics. Students enter into a contract with the instructor to complete an agreed-upon body of work and/or project. Fee is required. (6 contact hours)

## ART-283-(3)

Independent Studio: Photography
Prerequisite: Consent of instructor
This is a studio course for students who have completed collegelevel coursework in photography. Students enter into a contract with the instructor to complete an agreed-upon body of work and/or project. Students supply black-and-white films, RC and/or fiber-based paper, and 35 mm manual camera, and other incidental supplies as needed. Fee is required. (6 contact hours)

## ART-284-(3)

## Independent Studio: Design

Prerequisite: Consent of instructor
This is a studio course for students who have completed all course work in the discipline of design. Students enter into a contract with the instructor to complete an agreed-upon body of work and/or project. Fee is required. (6 contact hours)

## AUT-Automotive Technology

## AUT-112-(4)

## Introductory Automotive Technology

This course provides the automotive technology student career information about the automotive service industry. The class provides theory and related hands-on experience on live automo-
biles as a foundation for advanced automotive courses. Instruction includes engine testing and service procedures used on automobile systems and components. (6 contact hours)

## AUT-114-(4)

## Electrical/Electronic Systems I

Corequisite: Registration or credit in AUT-112
This course provides instruction in basic electricity and electronics, including direct-current electricity, series and parallel circuits, and basic electronics. Theory, operation and testing of the starting, charging, lighting, and signaling systems are covered. The student will work with multimeters and other electrical test equipment in developing troubleshooting techniques. ( 6 contact hours)

## AUT-120-(3)

## Automotive Service Advisor

Prerequisite: AUT-112 or consent of program coordinator
This course provides the automotive technology student with the knowledge needed for a career as an automotive service consultant (service writer, assistant service manager). The class provides theory and related hands-on experience on live automobiles similar to those in an automobile dealership, independent shop, or franchise service center. Instruction includes consumer relations, internal relations, sales skills, shop operations, and preparation for achieving ASE certification as a service consultant. (4 contact hours)

## AUT-121-(4)

## Automotive Brake Systems

Corequisite: Registration or credit in AUT-112
This course provides instruction in the theory of operation, diagnosis, and servicing of automotive disc and drum brake systems. Both standard and ABS brake systems are included. Service and troubleshooting of vacuum, hydraulic and electrical controls are covered. (6 contact hours)

## AUT-125-(4)

## Performance and Driveability I

Prerequisite: AUT-114
Engine drivability through the fuel delivery system, from the fuel tank through fuel distribution components, including electric fuel pumps, fuel filters, fuel injectors, regulators, return systems, vapor recovery, idle air control, and air temperature control are covered. (6 contact hours)

## AUT-127-(3)

## Introduction to Alternative Fuels

This course will address the need in the 21st century for alternative light-duty vehicles, their power plants, and the energy sources used to propel them. Alternative fuel systems will be discussed as well as their advantages, disadvantages, and impact on passenger safety and the environment. Also included will be a discussion of some of the hybrid vehicles currently in use and the fuel cell as a means of replacing the internal combustion engine for generating electricity. (3 contact hours)

## AUT-214-(4)

## Electrical/Electronic Systems II

## Prerequisite: AUT-114

This is a course in advanced automotive electronics with an emphasis on understanding and diagnosis of electronic ignition systems, computerized engine control systems, and non-enginerelated computer systems. (6 contact hours)

## AUT-232-(4)

## Performance and Driveability II

Prerequisite: AUT-125
This is an advanced course in engine drivability and fuel management diagnosis. Emphasis on proper diagnostic procedures, use of scan tools, digital oscilloscopes, and exhaust gas analyzers are covered. ( 6 contact hours)

## AUT-233-(1)

## Seminar

Prerequisite: Student must be in the third semester of the auto program or completed a minimum of five AUT classes
Corequisite: Registration in AUT-237 and consent of instructor Discussion of internship activities and problems, a student's performance, and any questions arising out of an internship. Development of professional attitude. Course strives to narrow the gaps between theory and on-the-job reality. (1 contact hour)

## AUT-234-(4)

## Steering and Suspension Systems

Prerequisite: AUT-112
This course covers theory of operation, diagnosis, maintenance, repair, and adjustment procedures pertaining to steering and alignment. Lab work includes two- and four-wheel alignment, servicing rack and pinion steering systems, conventional and MacPherson strut-suspension systems. (6 contact hours)

## AUT-236-(4)

## Auto Engine Reconditioning

Prerequisite: AUT-112
This course covers recognizing and diagnosing causes of engine failure and procedures necessary to repair or build an automotive engine. Lab work consists of use of precision measuring tools, restoration of tolerance by machining engine components, and proper disassembly and assembly procedures. (6 contact hours)

## AUT-237-(3)

## Internship

Prerequisite: Student must be in the third semester of the Auto Program or have completed a minimum of 5 AUT classes. Corequisite: Registration in AUT-233 and consent of instructor At AUT internship sites under the supervision of a certified ASE technician, students will diagnose and repair problems involving automotive components relating to the industry in which the student is employed. ( 15 contact hours)

## AUT-240-(4)

## Manual Transmissions and Drivelines

Prerequisite: AUT-112
Studies manual drive transmissions and transaxles (6 contact hours)

## AUT-242-(4)

## Automatic Transmissions

Prerequisite: AUT-112
Students study automatic transmissions and transaxles, clutches, linkages, cables, in-vehicle and off-vehicle component repairs, bands and drums. Emphasizes problem assessment, theory of operation and overhaul procedures. (6 contact hours)

## AUT-244-(4) <br> OBDII and Emission Control Systems <br> Prerequisite: AUT-232

Diagnosis and service of advanced computerized engine control systems (OBDII) and IM240 testing procedures are the main concepts covered. Detailed instruction on the use of advanced electronic testing equipment used in the diagnosis of these systems is covered in-depth. (6 contact hours)

## AUT-246-(4)

## Heating and Air Conditioning Systems

Prerequisite: AUT-112
Explores theory, operation, testing, and servicing of automotive heating and air conditioning systems. Laboratory work includes proper handling of refrigerants, troubleshooting, repairing, and servicing of these systems. Students also may gain certification in recycling and recovery of refrigerants. (6 contact hours)

## BIO—Biology

## BIO-111-(4)

## General Biology I

Scientific methods, biochemistry, cellular biology, cellular reproduction, classical and molecular genetics are covered with an emphasis on processes. This course includes a one-hour laboratory component. Fee is required. (6 contact hours) IAI: L1 900L

## BIO-112-(4)

## General Biology II

Structure and function of the major systems of animals, plants, fungi, protista and bacteria are covered. Origin of life, ecology, classification and evolution are also studied. Animal dissection is included. Note: BIO-111 is recommended prior to taking this course. This course includes a one-hour laboratory component. Fee is required. (6 contact hours) IAI: L1 902L

## BIO-115-(5)

## Anatomy and Physiology

Prerequisite: General Biology I (BIO-111) is strongly recommended
This is a one-semester survey course of anatomy and physiology of the human body. All of the major body systems are covered in this course. The course is designed primarily for students in programs that require only a one-semester survey course in anatomy and physiology. Examples of applicable programs include health information technology, medical assistant, polysomnography technologist, recreation therapy, and fitness trainer. This course will not satisfy the anatomy and physiology requirements for
programs in nursing, radiologic technology, or respiratory therapy. This course includes a one-hour laboratory component. Fee is required. (6 contact hours) IAI: L1 904L

## BIO-119-(4)

## Introductory Microbiology

This course introduces microbial life, including morphology, staining, genetics, physiology and biochemistry of bacteria, archaea, fungi, protozoa, algae and helminthes. Medical significance of these organisms is covered, as is the significance of viruses, prions and viroids. It is recommended that students take BIO-111 prior to taking this course: This course includes a onehour laboratory component. Fee is required. (6 contact hours) |AI: L1 904L

## BIO-180-(4)

## Human Anatomy and Physiology I

Prerequisite: 1 year of high school chemistry or CHM-111
The first course of a two-course sequence, this course presents an integrated approach to structure and function of the human body. Models, prepared slides, and physiological experiments, including dissections may be part of the laboratory experience. Emphasizes normal histology, anatomy and physiological principles of human cells, tissues, skeletal elements, integument and the musculature, circulatory and respiratory systems. It is strongly recommended that students select one of the following courses prior to taking this course: BIO-111, BIO-115 or CHM131. This course includes a one-hour laboratory component. Fee is required. (6 contact hours) IAI: L1 904L

## BIO-181-(4)

## Human Anatomy and Physiology II

Prerequisite: BIO-180
This course covers the structure and function of humans as related to the digestive, excretory, nervous, and endocrine systems; special senses; homeostatic mechanisms; human embryology and reproduction; electrolyte balance; and stress physiology. Models, prepared slides, and physiological experiments, including dissections, may be part of the laboratory learning experience. This course includes a one-hour laboratory component. Fee is required. ( 6 contact hours)

## BIO-182-(2)

## Human Anatomy Lab I

Prerequisite: BIO-115 or BIO-180 and evidence of current tetanus vaccination to the instructor.
This is the first of a two-course laboratory sequence using a human cadaver to study gross anatomy. Emphasis will be placed on gross anatomy of the integument, skeletal, cardiovascular, muscular, and respiratory systems. Fee is required. (3 contact hours)

BIO-183-(2)

## Human Anatomy Lab II

Prerequisite: BIO-181 and BIO-182 or consent of instructor, and evidence of current tetanus vaccination to the instructor.
This is the second of a two-course laboratory sequence using a human cadaver to study gross anatomy. Emphasis will be placed on gross anatomy of the digestive, nervous, special sense, urinary, endocrine, and reproductive systems. Fee is required. (3 contact hours)

## BIO-211-(4)

## Zoology I

Prerequisite: BIO-111 or consent of instructor
Study of the natural history, morphology and physiology of invertebrate animals. Emphasizes midwestern forms, including distribution, feeding habits, reproduction, economic importance, and classification. Fee is required. (6 contact hours)

## BIO-212-(4) <br> Vertebrate Zoology

Prerequisite: BIO-111 or consent of instructor
This course covers the structure and function of animal systems and their evolutionary relationships. Examines taxonomy, ecology, behavior, and distribution of representative animals. Fee is required. (6 contact hours)

## BIO-215-(3)

Physiology of Health and Disease
Prerequisite: BIO-115 or BIO-181
This course includes functional interrelationships between body systems in health and disease. Emphasizes application of physiological concepts in problem solving. (3 contact hours)

## BIO-220-(4)

## Ecology and Field Biology

Prerequisite: BIO-111 or consent of instructor
This course introduces general ecology. Includes field approach of measuring environmental factors in order to understand the ecosystem concept. Interrelationships of organisms, including humans and their environment, are explored. Field work and field trips are included. Fee is required. (6 contact hours)

## BIO-221-(4)

## Introduction to Marine Biology

Prerequisite: BIO-111
This course focuses on the biology and ecology of marine ecosystems and oceanography. The biological, chemical, physical and geographical factors of marine ecosystems are explored, including the inter-tidal zones, sandy and rocky shores, the ocean floor, seagrass, mangroves, coral reefs, open ocean, and the abyss. A survey of the biodiversity of marine organisms includes algae, plankton, invertebrates, reptiles, birds, fishes and mammals. Behavioral characteristics of unique species are discussed. The impact of humans on the marine environment, conservation, and management are highlighted. Research, laboratory, and field techniques are emphasized. Field work and field trips are included. Fee is required. (6 contact hours)

## BIO-230-(4)

Botany
Prerequisite: BIO-111 or consent of instructor
Lecture and lab illustrate the diversity of simple and complex plants. Covers the structure of roots, stems, leaves, flowers, and fruits; physiology of growth and response to environmental factors; and local plant ecology stressing community types, biomes and succession. Fee is required. (6 contact hours)

## BIO-240-(2)

## Biology Research

Prerequisite: Consent of instructor
This course provides undergraduate research experience. Students will actively participate in selecting and planning a research experience, read and critique scientific articles related to research interests, and write a scientific paper to describe and document the research. Students will be expected to work independently with guidance from faculty. It is strongly recommended that students first complete a college-level general biology course. Students must propose their independent research project to the instructor to gain consent for enrollment. Fee is required. (2 contact hours)

## BUS-Business

## BUS-100-(3)

## Introduction to Business

This course will provide the student with the opportunity to develop concepts, attitudes, and ideas about the nature of business and the environment in which it operates. Types of business ownership, management, marketing, finance, accounting, human resources, labor-management relations, ethics and other related topics are covered. (3 contact hours)

## BUS-105-(4)

## Small Business Management

Studies fundamentals of the organization and operation of a small business. Examines the problems of initial decisions: location, planning, financing, legal concerns, marketing and managing the small business. (4 contact hours)

## BUS-107-(2)

## Fundamentals of Accounting

This course is designed for two types of students: those with no high school or career accounting background who feel the need for introductory work prior to taking BUS-142 (Financial Accounting) and students that do not wish to take BUS-142, but would like to learn some accounting basics. Emphasis is placed on basic bookkeeping and accounting concepts. Topics will include: journalizing, posting, adjusting entries, financial statements, closing entries, and payroll. The course will also examine some accounting differences between a sole proprietorship, partnership, and corporation. This is a nontransfer course. (2 contact hours)

BUS-110-(3)

## Legal Environment in Business

A study of the modern legal and social environment of business, with emphasis on the regulation of business by government statutes, administrative regulations, and court decisions. Areas of concentration include: tort law, consumer protection law, employment law, labor law, and securities law. (3 contact hours)

BUS-120-(3)

## Business Mathematics

Prerequisite: Appropriate score on math placement test or MTH-090
This practical course covers mathematics of accounting, management, marketing, and finance. Topic coverage includes sales and property taxes, checkbook reconciliations, payroll, depreciation, trade and cash discounts, markup, review of financial statements, and both simple and compound interest calculations. (3 contact hours)

## BUS-130-(3)

## Principles of Marketing

This course emphasizes key concepts and issues underlying the modern practice of marketing. It includes an analysis of consumer and industrial markets and development and operation of a marketing program emphasizing domestic marketing of manufactured goods. (3 contact hours)

## BUS-131-(3)

## Principles of Retailing

This course examines the fundamentals that support the success of a retail business based on the five components of merchandising: planning, product, placement, price, and promotion. The student will learn the concepts behind effective strategic retail planning as practiced by different types of retail institutions: location selection, buying, selling, advertising, store management, pricing, customer services, and financing. Includes management of human resources and information systems. (3 contact hours)

## BUS-133-(3)

## Salesmanship

This course focuses on the actual processes involved in the successful selling of products, services, and ideas to both organizational and final customer markets. The student will learn the principles and techniques used in prospecting and preparation, approaching, demonstrating, meeting objection, sale closing, and follow-up. Topics also include buying motives, sales psychology, and the attitudes and attributes of successful sales professionals. Applies to selling both tangible products and intangible services to both organizational and final customer markets. (3 contact hours)

## BUS-134-(3)

## International Business

This course introduces the student to the fundamentals of international marketing, analysis of international business opportunities, market entry strategies and finances, business in the global workplace, the impact of cultural environments on the decisionmaking process, and the impact of foreign economies on U.S. business. (3 contact hours)
BUS-135-(2)

## Personal Finance

This course introduces the topics associated with the management of an individual's financial affairs. The course deals with many topics that an individual must face in his or her lifetime, such as taxes, credit purchases, insurance, and investing.
(2 contact hours)

## BUS-136-(3)

## Business Law

This course provides an introduction to law, examining topics such as contracts, sales and bailments, agency, employment, real and personal property, partnerships and corporations, and the common law as modified by the Uniform Commercial Code (UCC). The case method and problem solving are used to show the legal problems affecting business contracts. (3 contact hours)

BUS-142-(4)

## Financial Accounting

Prerequisite: Appropriate score on math placement test or MTH090
This course introduces the basics of financial accounting with emphasis on accounting as an information system which aids in the decision-making process. The focus is on the analysis and classifying of accounting information necessary for the preparation of external general-purpose financial statements. Topics include transaction analysis, development of financial reports, the accounting cycle, accruals and deferrals, receivables, payables, payroll, promissory notes, inventory costing, plant assets and depreciation methods, corporate equity concepts, bonds payable, and present value. Students with no high school or career accounting background, who believe they need introductory work, should take BUS-107 prior to taking this course. (4 contact hours)

## BUS-143-(4)

## Managerial Accounting

Prerequisite: BUS-142
This second semester accounting course presents accounting as a system of producing information for the use of internal deci-sion-makers. The course emphasizes the identification, accumulation, and interpretation of information for planning, controlling, and evaluating the performance of the separate components of a business. Topics include both job-order and process cost systems, cost-volume-profit analysis, budgeting, performance evaluation, differential analysis, capital investment analysis, and activity-based costing. (4 contact hours)

## BUS-145-(3)

## Computer Applications in Accounting

Prerequisite: BUS-142
This course introduces the student to the use of a contemporary accounting software package, such as Peachtree. Through classroom discussions and laboratory exercises, the student will gain a practical knowledge of computerized accounting applications including accounts receivable, accounts payable, purchasing, invoicing, job costing, payroll, budgeting, and reporting. The course assumes a basic knowledge of personal computers, as well as a working knowledge of the accounting cycle. (4 contact hours)

## BUS-148-(3)

## Introduction to Finance

Prerequisite: BUS-142
This course introduces corporate financial management. Topics include profit maximization, valuation theory, risk and return concepts, and techniques for managing current assets, fixed assets, and capital structure. (3 contact hours)

## BUS-155-(3)

## Display and Visual Merchandising

Design and create merchandising displays to cultivate positive customer attitudes toward a store or department for the purpose of selling merchandise. (3 contact hours)

## BUS-170-(3)

## Introduction to Human Resources

This course introduces the student to the policies and practices of employment agencies and personnel offices. Topics include recruiting, advertising, interviewing, counseling, placement, marketing, ethics, public relations, and labor law. (3 contact hours)

BUS-200-(3)

## Consumer Behavior

Introduces the consumer and organization decision process in selection, acquisition, and use of products and services. Examines influences on consumer behavior that can be considered by marketers in developing marketing strategies and tactics. (3 contact hours)

## BUS-215-(3)

## Employee Training and Development

Provides experience for the human resources professional in developing, designing, implementing, and evaluating employee training and development programs. Covers skill-based and employee development training methods for both on-site and offsite training. (3 contact hours)

## BUS-226-(3)

## Business Ethics

This case-oriented course introduces moral issues associated with industry and commerce. Major ethical systems are explored. Encourages ethical methodology. Note: Only three credit hours can be earned for either BUS-226 or PHI-226. Duplicate credit in both courses will not be awarded. (3 contact hours)

## BUS-230-(3)

## Advertising

Covers advertising as an institution in society, a tool of marketing, and a process of mass communication. Explores the elements of developing effective advertising campaigns, including setting objectives, establishing budgets, creating messages, selecting media, and evaluating results. (3 contact hours)

## BUS-231-(3)

## Principles of Management

Examines the foundations and nature of managing both profit and nonprofit organizations in a dynamic global environment. Studies the major management functions of planning and decision making, organizing, leading, and controlling. Emphasis is placed on ethics, diversity and teamwork. The nature of authority, responsibility, and accountability along with "line" and "staff" organizations are also closely reviewed. (3 contact hours)

## BUS-232-(3)

## Human Resources Management

The Civil Rights Movement, federal manpower development programs, Fair Labor Standards Act, Social Security Act, and their impact upon management and personnel are explored. (3 contact hours)

BUS-233-(3)

## Internship

Prerequisite: Consent of instructor
Corequisite: Registration in BUS-237
Planned and supervised career field experience relating to the student's degree program. (3 contact hours)

## BUS-235-(2)

## Personal Development

Business psychology dealing with attitudes and concepts, including personal efficiency, human relations, motivation, and personality health for personal leadership are covered. (2 contact hours)

BUS-237-(1)

## Seminar

Prerequisite: Consent of instructor
Corequisite: Registration in BUS-233
Discuss internship activities and issues, and development of professional attitude. Closes gaps between theory and on-the-job reality. (1 contact hour)

BUS-240-(3)

## Intermediate Accounting I

Prerequisite: BUS-143
A study of the theory concepts and generally accepted accounting principles underlying the preparation of external accounting reports for corporate organizations. Topics include preparation of financial statements, the time value of money, cash, receivables, inventories, and plant and intangible assets. (3 contact hours)

BUS-241-(3)

## Intermediate Accounting II

Prerequisite: BUS-240
Continuation of the study of generally accepted accounting principles underlying external financial reporting. Topics emphasized include current long-term liabilities, stockholders' equity, dilutive securities and earnings per share, investments and revenue recognition. Accounting for income taxes, pensions, leases, and the statement of cash flows are also covered. (3 contact hours)

## BUS-242-(3)

## Cost Accounting

Prerequisite: BUS-143
Covers managerial accounting topics in more detail. Emphasizes the role of accounting in virtually all aspects of an organization. Topics include organizational strategy, quality control, internal cost allocations, product and service costing methods, cost control techniques, cost analysis, and budgeting. (3 contact hours)

## BUS-243-(3)

## Federal Income Taxes

Prerequisite: BUS-143
Includes a comprehensive explanation of federal tax structure and training in application of tax principles to specific problems. Focuses on theory of tax law and the ability to identify tax problems. (3 contact hours)

## CCA-Child Care

## CCA-101-(3)

## Introduction to Early Childhood Education

Presents an overview of the history and philosophy of the different types of early childhood centers, including the past, present and future programs for young children and their families. Also examines the role of the early childhood professional in assessing and planning developmentally appropriate practices to serve young children. Guidance and observational skills will be fostered through field experiences. (3 contact hours)

## CCA-102-(3)

## Growth and Development/Young Child

Emphasizes the practical application of the theories and principles of child development related to the physical, intellectual, emotional, and social areas of a child's growth. Stresses cultural influences, experiences, and need satisfaction which shape a child's total development. Field observations and participation in early childhood settings will be included. (5 contact hours)

## CCA-104-(3)

## Language Development and Activities/Young Child

In-depth knowledge and understanding of language development, the stages involved, the role that adults play, and the relationship of language to other aspects of development are covered. Introduces the student to a wide variety of language activities appropriate for young children and helps develop skills in preparing, presenting and evaluating each of the language activities included in the course. (3 contact hours)

## CCA-105-(3)

## Health-Safety-Nutrition/Young Child

A comprehensive overview of ways which ensure children's physical well-being. Basic and changing health, safety and nutrition needs of children are examined, as well as appropriate methods by which these needs can be met in group or home settings. (3 contact hours)

## CCA-106-(3)

## Creative Activities/Young Child

An overview of a wide variety of experiences and methods for developing self-expression and creativity in the young child, including art, music, rhythm, and movement. (4 contact hours)

## CCA-107-(3)

Infant and Toddler Care
Studies patterns of growth and development of children from birth to age 3; examines needs of infants and toddlers in various child care settings; and develops skills in managing a safe environment and planning stimulating, age-appropriate activities. (3 contact hours)

## CCA-108-(3)

## Observation and Guidance-Young Child

Study of guidance practices which support the development of the young child. Theories are provided that support an analysis of child behavior as well as the development of guidance techniques. Students will develop and understand the relationship between careful observation, communication, and effective interaction with children. (4 contact hours)

## CCA-109-(3)

## Child, Family and Community

Prerequisite: CCA-101, CCA-102 or consent of instructor
Concentrates on the teacher's role in working with the child's family and community. Stresses parent education, changing families and legal responsibilities. Specific criteria and methods for effective parent-teacher communication are also discussed. Includes an in-depth study of community resources. (3 contact hours)

CCA-110-(3)

## Parenting

An overview of the parenting process. Reviews the history of childhood, theories and models of development which apply to parenting, and the status of children today. Child-rearing problems and issues are discussed, and specific discipline and communication styles are explored. Focuses on the influences of contemporary stresses, family and culture on the development of the child's self-concept. (3 contact hours)

## CCA-201—(3)

## Math and Science for the Young Child

Introduction to the theory and practice related to the curricular areas of math and science for young children. Emphasis will be placed on the development and evaluation of developmentally appropriate activities and instructional materials. (3 contact hours)

## CCA-203-(3)

Adminstration and Supervision of Early Childhood Programs
Examines a variety of management processes, as well as components needed for an effective center: policies, programs, evaluation, parent involvement, computers and administrative software, licensing, and accreditation. (3 contact hours)

## CCA-204-(3)

## The Child at Risk

Studies social and economic conditions contributing to "at risk" factors in early childhood. Analyzes programs and methods that meet educational needs of children. (3 contact hours)

## CCA-205-(3)

## Curriculum-Early Childhood Programs

Prerequisite: CCA-104 and CCA-201 or consent of coordinator Overview of principles involved in planning, implementing and evaluating developmentally appropriate curriculum. Includes lesson plans; emerging curriculum; scheduling; room arrangement; materials and equipment; individual, small and large group activities; short- and long-term goals; and a study of teacher's roles and responsibilities in curriculum development. (4 contact hours)

## CCA-211—(1)

## Special Topics in Child Development

Students work with the instructor individually or in small groups to develop special projects designed to focus on specific child development phenomena. (1 contact hour)
CCA-233-(3)

## Internship I

Prerequisite: CCA-101, CCA-102, CCA-104, CCA-105, CCA106, CCA-108, CCA-109, CCA-201, CCA-205, and/or consent of instructor
Corequisite: Registration in CCA-237
A planned and supervised experience in a child care facility. Fee is required. (15 contact hours)
CCA-237-(1)

## Seminar I

Prerequisite: Consent of coordinator
Corequisite: Registration in CCA-233
Discuss internship activities and challenges. (1 contact hour)

## CHM-Chemistry

## CHM-111-(4)

## Fundamentals of Chemistry

An introductory course with laboratory in the basic fundamentals of inorganic chemistry with an introduction to organic, nuclear and biochemistry. Topics include metric system, atomic theory, nomenclature, bonding, stoichiometry, properties of matter, solutions, acids and bases, pH , and organic functional groups. The course does not assume that students have had high school chemistry, and is intended for nonscience liberal arts students and those who plan to pursue a career in allied health or nursing. The course is also designed as an entry-level course for CHM-131 for students who need a chemical foundation prior to enrolling in university-oriented chemistry. It is recommended that students have completed one year of high school algebra. This course includes a one-hour laboratory component. Fee is required. (5 contact hours) IAI: P1 902L

## CHM-131-(4)

## Chemistry (University-Oriented) I

Prerequisite: one year of high school chemistry or CHM-111
Principles and theories of inorganic chemistry; molecular, atomic, nuclear and electronic theories of matter related to the periodic table; oxidation-reduction and ion exchange; and theories of solution are explored. For students in chemistry, chemical engineering or physical science programs. This course includes a one-hour laboratory component. Fee is required. (6 contact hours) IAI: P1 902L

## CHM-132-(4)

## Chemistry (University-Oriented) II

## Prerequisite: CHM-131

Principles of chemical equilibrium applied to dissociation, solubility and hydrolysis in aqueous solution are covered. Studies metals, nonmetals and their compounds. Procedures for separation and identification of common metallic and nonmetallic ions are emphasized. Fee is required. (6 contact hours)

## CHM-203-(5)

Organic Chemistry I

## Prerequisite: CHM-132

Modern concepts of the structure of organic compounds, correlation between structure, spectroscopy and properties are explored. Reactions, reaction mechanisms, study of aliphatic and aromatic hydrocarbons, alkyl halides, alcohols, ethers, and carboxylic acids are covered. Fee is required. (7 contact hours)

CHM-204-(5)
Organic Chemistry II

## Prerequisite: CHM-203

Studies of carboxylic acids, aldehydes, ketones, amines, phenols, carbohydrates, amino acids, proteins, and lipids will be covered. Fee is required. (7 contact hours)

## COL-College Introduction

COL-101-(1)
College: Changes, Challenges, Choices
Provides an opportunity to assess your purpose for college, assess your study strategies, set college and career goals, examine your values and decision-making skills, and develop an appreciation for diversity. This course is a requirement for all entering full-time students. See page 15 for details. ( 1 contact hour)

## COM-Communications

## COM-085-(4)

## Sentence and Paragraph Writing

This course is designed to help students understand and use the basics of grammar and punctuation with simple, compound and complex sentences, and to use these sentences to develop effective paragraphs. (4 contact hours)
This course may be taken up to three times to accomplish a grade of " $C$ " to satisfy requirements for the next course in the sequence.

COM-090-(3)

## Paragraph and Theme Writing

Prerequisite: Grade of "C" or better in COM 085 or appropriate score on placement test
Understand and write basic paragraphs and short themes. Covers developing the topic sentence, ordering ideas and achieving coherence in paragraphs, and incorporating paragraphs into essays. Credit hours for the course can be applied to full- or parttime student status, but will not count toward graduation credits unless specified in your certificate or degree program. (3 contact hours)
This course may be taken up to three times to accomplish a grade of " $C$ " to satisfy requirements for the next course in the sequence.
COM-101—(3)
Composition I
Prerequisite: Grade of "C" or better in COM-090 or appropriate score on placement test
Designed to teach clear and effective expository prose, with emphasis on organization, clarity and coherence. Learn to adapt style to various readers and use research to clarify explanations and support arguments. A grade of " C " or better is required for this course to transfer under the guidelines of the Illinois Articulation Initiative (IAI). Fee is required. (3 contact hours) IAI: C1 900

COM-102-(3)

## Composition II

Prerequisite: COM-101 with a grade of "C" or better.
Analytical and critical writing based upon texts. Research is used to incorporate supporting ideas drawn from primary and secondary sources. A grade of " $C$ " or better is required for this course to transfer under the guidelines of the Illinois Articulation Initiative (IAI). Fee is required. (3 contact hours) IAI: C1 901R

COM-103-(3)

## Speech Fundamentals

Introduction to basic oral communication principles and skills, challenges of cultural diversity and gender equity. Includes study and practice in public speaking and discussion, preparation and organization, and delivery techniques. This course satisfies the requirements of Public Act 87-581. (3 contact hours) IAI: C2 900

## COM-105-(1)

## Writing Laboratory

Develops job-related communication skills, research paper skills and writing skills for personal improvement. Credit hours for the course can be applied to full- or part-time student status, but will not count toward graduation credits unless specified in your certificate or degree program. (2 contact hours)
This course may be taken four times for credit.

## COM-106-(3)

## Creative Writing, Poetry

Prerequisite: COM-101 or consent of instructor
This course is an examination and application of prosody, textual conventions, and theories of writing poetry through analysis and student writing. (3 contact hours)

## COM-107-(3)

## Creative Writing, Fiction

Prerequisite: COM-101 or consent of instructor
This course is an exploration and application of techniques, conventions and theories of writing fiction through analysis and student writing. (3 contact hours)

## COM-108-(3)

## Creative Writing Literary Nonfiction

Prerequisite: COM-101 or consent of instructor
This course is an exploration and application of techniques, conventions and theories of writing literary nonfiction through analysis and student writing. The study of nonfiction forms will include memoir, profile, literary journalism, and stories of craft. Additional ways to tell the nonfiction story will also be addressed, including humor, visuals and multigenre pieces. Emphasis will be placed on the writing and creative process. (3 contact hours)

## COM-111-(3)

## Technical Communications I

Prerequisite: COM-090 or appropriate score on placement test Introduces basic theories of communication. Emphasizes writing development, including technical writing, letter writing and grammar. Fee is required. (3 contact hours)

## COM-112-(3)

## Technical Communications II

Theory and practice of oral communication are discussed. Emphasizes group discussion, listening skills, and informative and persuasive speaking. (3 contact hours)

## COM-120-(3)

## Introduction to Linguistics

Fundamentals of linguistics are covered. Emphasizes speech behavior as interaction. Topics include origins, functions and limitations of language. (3 contact hours)

COM-123-(3)

## Applied Forensics

Prerequisite: Consent of instructor
Corequisite: Participation on Forensics Team
Includes instruction and practical experience in competitive speech events, such as impromptu and persuasive speaking, rhetorical analysis and oral interpretation. Selection, analysis and preparation of material are covered. Competitive performance is required. Cannot be repeated for credit. (5 contact hours)

## COM-125-(1)

Tutoring Internship
Prerequisite: COM-101 and COM-102 both with a grade of "C" or better and consent of instructor
An introduction to tutoring in the Writing Center with emphasis on the interaction between tutor and client, and the options and strategies open to tutors to manage the tutoring session. Includes a review of grammar, writing skills, research and documentation, and a survey of the types of writing done in various disciplines at the college. (1 contact hour)
This course may be taken four times for credit.

## COM-151—(1)

## Student Publications Seminar

Earn up to four credits for participation in production of student publications. Includes weekly seminars. Teaches communication skills and publication production. (2 contact hours)

## COM-152-(1)

## Student Publications Seminar

Earn up to four credits for participation in production of student publications. Includes weekly seminars. Teaches communication skills and publication production. (2 contact hours)

## COM-153-(1)

## Student Publications Seminar

Earn up to four credits for participation in production of student publications. Includes weekly seminars. Teaches communication skills and publication production. (2 contact hours)

## COM-154-(1)

## Student Publications Seminar

Earn up to four credits for participation in production of student publications. Includes weekly seminars. Teaches communication skills and publication production. (2 contact hours)

## COM-201-(3)

## Business and Technical Writing

Prerequisite: COM-101 or COM-111
Improves writing in a variety of business and technical fields, both in college and on the job. (3 contact hours)

## COM-203-(3)

## Interpersonal Communication

Introduces the study of interaction between people that focuses on the importance of sensitivity to various communications. Provides a communication perspective of interpersonal relationships, covering relational maintenance and decline, listening, conflict, the self-concept, cultural impacts on relationships, and interpersonal communication in work and family contexts. (3 contact hours)
COM-204-(3)

## Argumentation

Prerequisites: COM-101 and COM-103
This course will emphasize principles and methods of critical decision-making through argumentation and debate, including analysis of issues; collection and evaluation of evidence; evaluation of argument and reasoning; and techniques of attack and defense in oral argumentation. Students will engage in formal debate. (3 contact hours) IAI: SPC 913

## COS-College Skills

## COS-100-(6)

## College Skills I

Techniques for improving reading skills, including basic word attack, comprehension, interpretation, skimming, scanning. Techniques for improving listening, note-taking, test-taking and study methods. Credit hours for this course can be applied to full- or part-time student status, but will not count toward graduation credits unless specified in your certificate or degree program. This is a variable credit course (1-6 hours) This course may be taken four times for credit.

## CRJ—Criminal Justice

## CRJ-101-(3)

## Introduction to Criminal Justice

Covers the American criminal justice system and its processes. Introduces crime statistics, crime causation theories, and criminal law as tools of the justice system; the function of law enforcement, courts and corrections; a sampling of international criminal justice systems; and career opportunities and resources. (3 contact hours)

## CRJ-103-(3)

## Police in American Society

Examines American law enforcement. Introduces the nature, scope and history of law enforcement; the police function; police-citizen relations; civil rights and civil liability; ethics in policing; organizational, political and social influences; and a range of policing issues. (3 contact hours)

## CRJ-104-(3)

## Investigation and Criminal Evidence

Looks at the police investigative process. Emphasizes preliminary and follow-up investigations; collection and preservation of physical evidence at the crime scene; methods used in the scientific interpretation of evidence; and preparation of criminal cases for trial. (3 contact hours)

## CRJ-105-(3)

## Criminology

Examines crime and criminal behavior. Introduces criminology; views of crime; major explanations of crime; strategies designed to reduce the crime rate; and types of crime, such as violent, political, organized, and property. (3 contact hours)

## CRJ-106-(3)

## Introduction to Corrections

Examines the development of the correctional system. Describes the various forms of punishment and presents correctional ideologies, including punishment, treatment and crime prevention. Traditional institutions, community-based programs and other options are analyzed. (3 contact hours)

## CRJ-107-(3)

## Juvenile Delinquency and Procedures

Covers the juvenile justice system. Introduces the nature, etiology and extent of juvenile crime; functions and jurisdictions of juvenile agencies; juvenile processing, detention and case disposition; and contemporary issues in juvenile justice. (3 contact hours)

## CRJ-110-(3)

## Introduction to Homeland Security

This course provides an overview of homeland security as a major contemporary issue in the public safety fields, and introduces the major themes and issues in homeland security. Students will examine the roles of the emergency management system, including public health and private sector participants. The course will review current legislation, civil liberties, intelligence gathering and counter terrorism initiatives, as well as provide a historical perspective and describe risk assessment and prevention techniques. (3 contact hours)

## CRJ-206-(3)

## Substantive Criminal Law

Examines the theory and practice of substantive criminal law. Introduces the definition and classification of crimes, legal principles of criminal conduct, legal elements required for proof of crime, punishment, defenses, and mitigating circumstances. Emphasizes criminal offenses in Illinois. (3 contact hours)

## CRJ-207-(3)

## Procedural Criminal Law

Covers the theory and practice of procedural criminal law. Introduces the law of arrest, search and seizure; confessions; suspect identification; and electronic surveillance. Emphasizes the criminal law in Illinois and updated decided court cases. (3 contact hours)

## CRJ-210-(1)

## Special Topics in Criminal Justice

Students work with instructor individually or in small groups to develop special projects designed to focus on specific criminal justice or related topics. (1 contact hour)
This course may be taken four times for credit.

## CRJ-219-(2)

## Contemporary Issues: Criminal Justice

Intended primarily for students interested in criminal justice issues, the course examines basic policy problems: legislation, professionalism, education, training, literature and research, procedures, administration, social problems. (2 contact hours) This course may be taken four times for credit.

## CRJ-233-(3)

## Internship

Prerequisite: CRJ-101, 6 college credit hours in criminal justice, 2.0 or better cumulative grade point average, and consent of instructor/internship coordinator
Corequisite: Registration in CRJ-237
Planned and supervised career field experience relating to the student's degree program. Students will intern in criminal justice agencies or related public service agencies. (15 contact hours)

CRJ-237-(1)

## Seminar

Prerequisite: CRJ-101, 6 college credit hours in criminal justice, 2.0 or better cumulative grade point average, and consent of instructor/internship coordinator
Corequisite: Registration in CRJ-233
Discusses internship activities and issues. (1 contact hour)

## CSC-Computer Science Transfer

## CSC-140-(3)

## Introduction to Computer Science

Prerequisite: 3 years of high school math, including precalculus or advanced algebra, and appropriate placement test score, or MTH-141, or consent of instructor
Designed as an introduction to problem solving, structured logic and programming, this course covers the concepts of an algorithm and its expression as a program. C++ or another high-level language will be used to introduce the topics of top-down design, modularization and structured programming. Programming problems will be chosen from a variety of subject areas. Fee is required. (4 contact hours)

## CSC-206-(3)

## FORTRAN Programming

Prerequisite: 1) Previous experience programming with a structured language, or CSC 140, or consent of instructor, and 2) a first course in calculus, MTH-150 or MTH-145
The FORTRAN language is used primarily for statistical analysis, simulation, analysis of research data, and other applications involving complex mathematical manipulation. Students write, compile and test programs using a version of FORTRAN. The emphasis in this course is on problem solving and analysis, and not on the intricacies of the FORTRAN language. Students with no prior programming experience are strongly advised to take CSC-140 or its equivalent. Fee is required. (4 contact hours)
CSC-240-(3)
Advanced Computer Science
Prerequisite: CSC-140 or consent of instructor
This course is designed as an extension of CSC-140, providing greater in-depth experience in modular structured programming solutions to problems. Topics include record I/O; file processing; advanced array manipulations; searching and sorting algorithms; algorithm efficiency; recursion; OOP methodology; using and creating classes; interfaces; overloading; pointer data types; and an introduction to data structures: linked lists, staks, queues and trees. Good programming documentation and proper problem analysis is expected throughout the course. Fee is required. (4 contact hours)

## CSC-280-(3)

## Data Structures with Applications

Prerequisite: CSC-240
An introduction to various data representations and structures such as linked lists, stacks, queues, rings, and trees. Each structure is explored in terms of applicability to various data management situations with programming exercises included to demonstrate design and use in problem solving. Fee is required. (4 contact hours)

## EAS-Earth Science

EAS-120-(4)

## Introduction to Earth Science

An introductory course to acquaint students with the physical environment. Topics include an examination of the earth's composition; plate tectonics, structure and land forms; the atmosphere and major elements and controls of weather in their relationship to climatic characteristics and distributions; the physical characteristics of ocean water, movements and the ocean floor; and the characteristics of the solar system and outer space. This course is particularly suited for students not majoring in the sciences. This course includes a one-hour laboratory component. Fee is required. (6 contact hours)
IAI: P1 905L

## EAS-125-(4)

## Introduction to Weather and Climate

This course is an elementary treatment of the processes that produce our weather and climate. Covers the elements of weather and climate (temperature, moisture, pressure, and winds); causes for day-to-day weather changes; and the nature of violent storms such as tornadoes and hurricanes. Climatic regions will be investigated in terms of physical characteristics, locations and associated human activity. This course includes a one-hour laboratory component. Fee is required. (6 contact hours) IAI: P1 905L

## EAS-130-(4)

## Severe and Hazardous Weather

This course examines hazardous weather patterns and severe weather phenomena while emphasizing the fundamental concepts and processes in meteorology. The internal structure and atmospheric dynamics of extra-tropical and tropical cyclones will be examined as well as smaller scale atmospheric events such as thunderstorm propagation along squall lines, microbursts, and development of tornadoes. There will be special focus on the environmental, economic, and societal impacts of long-term weather patterns such as heat waves and drought. Several of the topics will be investigated by scrutinizing case studies of disastrous weather events that have occurred throughout history. This course includes a one-hour laboratory component. Fee is required. (5 contact hours) IAI: P1 905L

## ECO-Economics

## ECO-100-(3)

## Consumer Economics

Personal financial management is explored, including financial planning, budgeting, banking, borrowing, credit, taxes, home ownership, renting, life insurance, health and income insurance, estate planning, and consumer protection. (3 contact hours)

## ECO-101-(3)

## Principles of Macroeconomics

Examines basic economic concepts, including unemployment, inflation, production, and fiscal and monetary policy. Completion of two years of high school math including algebra, or MTH-098, is strongly recommended (3 contact hours) IAI: S3 901

## ECO-102-(3)

## Principles of Microeconomics

Studies supply and demand analysis, basic concepts of cost and revenue under various market conditions, income distribution and international trade. Completion of two years of high school math including algebra, or MTH-098, is strongly recommended. (3 contact hours) IAI: S3 902

ECO-250-(3)

## Comparative Economics

Develop an appreciation and understanding for the philosophies and precepts on which world economic systems are based. Classical economic philosophies are reviewed, and elements of national economics are studied. Discuss various methods and levels of analysis for application purposes. Special focus is given to central European nations. This course is for students who will study at Salzburg College, Austria, and who meet certain academic requirements. (3 contact hours)

## EDU-Education

## EDU-100-(3)

## Introduction to Education

## Prerequisite: COM-101

Provides an introduction to teaching as a profession in the American Education System. Offers a variety of perspectives on education including historical, philosophical, social, legal, and ethical issues in a diverse society. Includes organizational structure and school governance. A clinical component is required. (3 contact hours)

## EDU-102-(3) <br> Introduction for Paraprofessional Educator

This course is designed for students who are considering a career in the education field. This course is designed to cover professionalism, teaching methods and strategies, lesson planning, cooperative learning, assessment techniques and basic school practices and procedures. (3 contact hours)

## EDU-103-(1)

## Observation/Clinical Experience

Documented clinical experience(s) based on community collaborations involving observation of and interaction with students and practitioners at work, according to specified guidelines, within the appropriate subject matter and age category. The experience, comprising a minimum of 40 hours, is planned, guided, and evaluated by a supervisor and can occur in a variety of educational settings, including those with diverse populations. (3.5 contact hours)
EDU-104-(3)

## Introduction to the Foundations of Reading

Introduction to theory and practice in teaching reading and related language arts areas. Includes information on the basic components of reading instruction and language arts instruction, and the importance of literacy learning. Includes an introduction to the Illinois Learning Standards in the areas of reading and language arts. (3 contact hours) IAI: SPE-912

## EDU-105-(3)

## Classroom Management

This course studies the theories of discipline and the implementation of behavior analysis in order to maintain an effective classroom environment. Strategies and their application, which address components of diverse behavioral, cultural and learning theories, are examined. Recognized behavioral interventions to ensure appropriate socialization and learning are researched and utilized. Individual and school wide discipline behavior theories and models are analyzed and applied. (3 contact hours)

## EDU-106-(3)

## Language Development

## Prerequisite: PSY-104 or PSY-105

A study of normal language development from birth through school age, and an understanding of how children may progress through language development stages at differing rates. This course will also develop an understanding of the effects of diversity, including cultural and linguistic diversity on language development. (3 contact hours)

## EDU-108-(3)

## Diversity of Schools and Society

Discusses diversity of schools and societies, and social and global perspectives. Also how schooling is shaped by the social contexts in which it occurs, particularly in multicultural and global contexts. (3 contact hours)

## EDU-110-(3)

## Technology for Educators

Prerequisite: Recommended IMS-100 or equivalent computer skills
This course introduces educators to the knowledge and skills required to demonstrate their proficiency in the current technology standards. This course focuses on both knowledge and performance, and includes hands-on technology activities. (3 contact hours)

## EDU-111-(3)

## Students with Disabilities in School

Prerequisite: COM-101
A survey course that presents the historical, philosophical and legal foundations of special education, as well as an overview of the characteristics of individuals with disabilities, methods of instruction, programs that serve them under the Individuals with Disabilities Education Act, and the diversity of the populations of individuals with disabilities. A clinical component is required. (3 contact hours)

## EDU-205-(3)

## Literature for Children/Young Adults

## Prerequisite: COM-101

Survey of the genre of literature for children through young adults, analyzing the social, cultural, and intellectual implications, instruction methodology, including critical thinking assessment, criteria for selection and utilization of literary works-based language development, learning opportunities, and curricular resources in schools and the community. (NOTE: Only 3 credit hours can be earned for either EDU-205 or LIT-205. Duplicate credit in both courses will not be awarded.) (3 contact hours)

EDU-233-(3)

## Paraprofessional Educator Internship

Prerequisite: EDU-100, EDU-102 and EDU-103 and consent of instructor

## Corequisite: Registration in EDU-237

An extensive clinical field experience based in community collaboration involving a working observation of and interaction with practitioners in the field. This experience is evaluated and under the guidance of the classroom teacher/supervisor and college instructor. This course comprises a minimum of 225 contact hours and includes instructional planning, classroom management, use of technology, diversity considerations, use of varied instructional methodologies, collaboration assessments, and reflection. (15 contact hours) IAIM: EED 904

## EDU-237-(1)

## Paraprofessional Educator Seminar

Prerequisite: EDU-100, EDU-102 and EDU-103 and consent of instructor
Corequisite: Registration in EDU-233
Students demonstrate the knowledge, performance and disposition for teaching. Emphasis is on the completion of teachinglearning skills, reflective practices and an understanding of the field of education, demonstration by portfolio and authentic assessments. (1 contact hour)

## EDU-250-(3)

## Comparative Education

This course compares the educational system (preschool through higher education) in European states with special consideration of Austria, England, Germany, Ireland, France, and Italy. Current trends and reforms are considered. This course is for students who will study at Salzburg College, Austria, and who meet certain academic requirements. (3 contact hours)

## EGN-Engineering

## EGN-150-(3)

## Engineering Graphics

The graphic description of objects in three dimensions and the application of graphic methods to solution of three-dimensional space problems are included. Covers orthographic projection of points, lines, planes, and solids, and the relative positions of these elements. Includes sections, conventions and dimensioning, tolerance systems, surface intersections, developments, vectors, and pictorial systems. Fee is required. (5 contact hours)

EGN-201-(3)

## Engineering Statics

Prerequisite: PHY-203
Corequisite: Registration in MTH-152 or consent of instructor Analyze one-, two- and three-dimensional force systems in equilibrium. Includes use of vector calculus. Applications include trusses and frames. Includes discussion of friction, centroids and virtual work. (3 contact hours)

## EGN-202-(3)

Engineering Dynamics
Prerequisite: PHY-203
Corequisite: Registration or credit in MTH-152 or consent of

## instructor

Kinematics and dynamics of particles and rigid bodies using the calculus of vectors are studied. Nonrectangular coordinates and Newton's laws of motion, work, energy, and momentum are applied to a variety of problems. Introduces Lagrange's equations and the Hamiltonian Principle. (3 contact hours)

## ELT—Electronics

## ELT-101-(3)

## Electricity and Electronics

This course provides a practical approach to DC and AC electricity and electronics. The course provides an introduction to electricity and magnetism; circuit elements; series, parallel and simple complex circuits. The course will include the characteristics and operation of capacitors and capacitance, inductors and inductance, and reactive circuits. Applications of resonance and transformers also will be introduced. The course will provide hands-on exercises and computer simulation in the use of test equipment and circuit troubleshooting. (4 contact hours)

## ELT-102-(3)

## Digital Logic/Solid State Devices

Prequisite: ELT-101
This course provides a practical approach to the study of digital and integrated devices. The course will include the study of logic gates, flip-flops, latches, counters, encoders/decoders, multiplexers, arithmetic circuits, oscillators, timers, analog-to-digital circuits, solid-state memory, and operational amplifiers. In addition, study solid state circuits and devices. The course will include the study of diodes, transistors, FETS, thyristors, and optoelectronic devices. Examination of common circuits will include power supplies, amplifiers, solid-state switches, and regulators. (4 contact hours)

## ELT-112-(1)

## Computers for Industry

This course provides a basic introduction to the computer hardware and software. The emphasis is on the software, with a basic introduction to DOS, Windows, Windows applications, and batch file programming. Fee is required. (2 contact hours)
ELT-201-(3)
Industrial Controls
Prerequisite: ELT-101 or consent of instructor
Provides an in-depth study of electrical controls in an industrial environment. Topics include power distribution basics, motor control circuits, pilot devices, timers, counters, photoelectric and proximity switches. Examine DC and AC motor operation and characteristics. Fee is required. (4 contact hours)

## ELT-202-(3)

## Advanced Industrial Controls

## Prerequisite: ELT-201

Examines the application of digital circuits, trigger circuits, and thyristors in power and control circuits. Closed loop systems, PID, transducers, and motor controls will also be studied. An examination of control wiring and power distribution will also be examined. Fee is required. (4 contact hours)

## ELT-211-(3)

## Introduction to PLCs

Introduction to programmable logic controllers. Explore the history of their evolution in industry; fundamental concepts and programming methods; RLL programming, counters, timers and shift registers; PC online programming and monitoring; and installation, troubleshooting and monitoring. Fee is required. (4 contact hours)

## ELT-222-(3)

## Advanced PLCs

Prerequisite: ELT-211
Examines the application of programmable logic controllers in the areas of advanced I/O, PLC network, and factory automation. Program design, documentation, testing, and troubleshooting are investigated. Fee is required. (4 contact hours)

## ELT-260-(1)

## Internship

## Prerequisite: 12 credit hours in ELT

This course is a supervised occupational field experience in a student's area of study in electronics and/or process control and manufacturing industries. Duties should be of a technical nature, but provide broad work experience in the field of study. The internship assignment is planned by the student and internship program coordinator. Fee is required. (5 contact hours)

## EMS-Emergency Medical Services

EMS-100-(2)

## First Responder

Develops functional emergency procedures for fire and police service personnel who may be required to provide the initial care to sustain life and maintain life support until the victims of accidents or sudden illnesses are cared for by qualified medical personnel. Includes artificial respiration, poisoning, burns, dressings and bandages, fractures, emergency childbirth, bone and joint injuries, emergency rescue and transfer, and extrication. (2 contact hours)

## EMS-101-(8) <br> Emergency Medical Technician

Prerequisite: Valid CPR for Healthcare Providers card; completed History and Physical Form, including drug screen, tuberculosis testing and immunizations; completion of a criminal background check; evidence of personal health insurance; evidence of age 18 years or older
This course provides instruction for students to the level of Emergency Medical Technician-Basic. The course emphasizes skills necessary to provide emergency medical care at a basic life support level. Sixty hours of clinical experience is included in course requirements, including time assigned to emergency room, obstetrical, ambulance and dispatch units. Upon successful completion of EMS-101, students are eligible to challenge the Illinois Department of Public Health EMT-B State Examination. Fee is required. (11 contact hours)

## EMS-102-(9)

## EMT-Paramedic I

Prerequisite: Illinois Emergency Medical Technician "B" certification Provides classroom training and clinical experience to enable students to become state-certified paramedics. Examines the role and responsibility of the paramedic in the health care delivery system, including an overview of human body systems, basic general pharmacology, medical terminology, patient assessment and examination, fluid therapy, and an in-depth study of the respiratory system. Fee is required. (15 contact hours)

## EMS-103-(8)

## EMT-Paramedic II

Prerequisite: Emergency Medical Technician B licensure and EMS 102
This course is an in-depth study of the cardiovascular system, and the study of epidemiology, anatomy and physiology, pathophysiology, assessment and management of the following patients: gynecologic, obstetric, neonate, pediatric, infectious, endocrine, gastrointestinal, urological, neurological, and psychiatric patients. The management of substance abuse and toxic emergency patients are discussed. (14 contact hours)

EMS-104-(8)

## EMT-Paramedic III

Prerequisite: Emergency Medical Technician B licensure, EMS 102, EMS 103
This course covers the anatomy and physiology and management of the geriatric client, environmental and hematological emergencies, anaphylaxis, allergies, the challenged patients and chronic care patients. Examines the EMS considerations for violent situations and crime scenes and hazardous material situations. Also covers the pathophysiology and management of the musculoskeletal system and of trauma, including soft tissue injuries, burns, hemorrhage and shock. (14 contact hours)

## EMS-233-(5)

## EMT-Paramedic-Internship

Prerequisite: EMS 102; completion of Cardiac Mod in EMS 103 Corequisite: registration in EMS 103 and EMS 104
The student, while under the direct supervision of a certified paramedic, will accumulate a minimum of 248 hours of actual ambulance service (including a minimum of 50 calls, 25 of which must be Advanced Life Support responses). Included in the above calls, the student must serve as Team Leader in at least 50 calls. Fee is required. ( 16.5 contact hours)

## EMS-237-(5)

## EMT-Paramedic-Seminar

Prerequisite: EMS 102; completion of Cardiac Mod in EMS 103; Corequisite: registration in EMS 103, 104 and 233
These semiweekly seminars allow the paramedic intern to present case studies to the EMS instructor and classmates as related to the Region VII Standard Medical Orders. The student will also be required to successfully complete ACLS, PHTLS, and PALS courses in order to graduate and complete EMS 237. Upon successful completion, the student is eligible to take the State of Illinois Certification Examination for Paramedics. (16.5 contact hours)

## FIS-Fire Science Technology

FIS-101-(3)

## Principles of Fire Science

The history and development of public fire protection services of federal, state and local governments are covered. Explores the relationship of departmental functions to other governmental agencies and industrial/commercial organizations. Characteristics and behavior of fire, primary extinguishing agents and municipal fire defense are included. (3 contact hours)

## FIS-103-(3)

Fire Prevention Principles I
Prerequisite: Office of the State Fire Marshal Firefighter II Certification
In this course, students develop an understanding of the purpose and objectives of fire prevention codes and ordinances in relation to building construction, fire protection systems and field inspection techniques. (3 contact hours)

FIS-104-(3)

## Fire Protection Systems

Studies basic built-in fire detection, alarm and extinguishing systems. Examines devices and systems installed in buildings to protect life and property, and to support the fire department through early detection and control. (3 contact hours)
FIS-105-(3)
Industrial Fire Protection
Studies recommended practices for protection of industrial properties and processes from fire, explosion and damage peculiar to certain types of public and private industry. Includes organization and training of plant fire brigades. (3 contact hours)

## FIS-106-(3)

## Fire Suppression Apparatus and Equipment

Basic principles of construction and use of fire apparatus and related equipment are included. Apparatus operation and maintenance of pumps, pumper procedures, tests, aerial ladders, and aerial platforms are covered. Elementary fireground hydraulic calculations are studied. (3 contact hours)

## FIS-107-(3)

## Fire Fighting Tactics and Strategy I

Prerequisite: FIS-103
Studies various areas of basic fire fighting tactics and strategy, including pre-fire planning, apparatus requirements, initial attack, and confinement problems unique to different types of building construction. (3 contact hours)

## FIS-110-(1)

## Hazardous Materials Awareness

Designed to give the student the knowledge necessary to implement a planned response to a hazardous materials circumstance. Emphasizes surveying the incident scene and collecting hazardous materials information. (1 contact hour)
FIS-111-(1)

## Hazardous Materials Incident

Prerequisite: Office of the State Fire Marshal Firefighter II Certification
Offers the individual skills necessary to direct and coordinate all aspects of a hazardous materials incident. Skills include the knowledge and ability to implement the incident management system, importance of the decontamination systems, and knowledge of the overall incident operations with emphasis on hazards when employees are working in chemical protective clothing at an incident. (1 contact hour)

## FIS-112-(3)

## Building Construction for Fire Safety

An in-depth analysis of the various classifications of building construction, types of construction materials, and structural design. Includes fire resistance ratings, fire detection and suppression systems, and life safety considerations. Introduces building and fire codes and laws. (3 contact hours)

FIS-113-(1)

## Technical Rescue Awareness

Prerequisites: FIS-101 and EMS-101, or Office of the State Fire Marshal Firefighter II Certification
This course provides instruction in the identification of situations requiring a technical rescue. Several methods of technical rescue will be discussed, including structural collapse, confined space, vehicle, machinery, and water. Safety measures required at each type of rescue will be emphasized. (1 contact hour)

FIS-114-(3)

## Fire Investigation

Develops proper techniques and procedures for investigating fires, and determining the point of origin and cause of a fire. Discusses preservation of evidence, burn patterns, fire behavior, and incendiarism. (3 contact hours)

## FIS-116-(1)

## Fire Department Special Services

This course provides instruction and information for two major topics in fire department special services: hazardous materials and technical rescue. Emphasis will be given to surveying hazardous materials incident scenes and collecting hazardous materials information. Emphasis will also be given to the identification of situations requiring a technical rescue and studying several methods of technical rescue, including structural collapse, confined space, vehicle, machinery, and water. The objectives for this course were developed based on training objectives prescribed by the Office of the State Fire Marshall (OSFM), codes and standards established by the National Fire Protection Association (NFPA), Forth American Emergency Response Guidebook, and Occupational Safety and Health Administration (OSHA). (3 contact hours)

FIS-117-(3)

## Incident Safety Officer

Prerequisite: FIS-107 or approval of program coordinator This course introduces the student to the roles and responsibilities of an incident safety officer. The student will learn about firefighter line of duty deaths and ways in which firefighter deaths can be avoided. Risk versus benefits will be discussed. Emergency incident operations and responses to and from the incidents will be explored. Training operations will be covered with an emphasis on the fire department's liability to perform training that is safe and comprehensive. (3 contact hours)

## FIS-118-(3)

## Health and Safety Officer

Prerequisite: FIS-107 or approval of program coordinator This course introduces the student to the roles and responsibilities of the health and safety officer. The student will learn about firefighter wellness and fitness programs. The development of an overall safety program will be discussed. An infectious disease prevention program will be covered. Emphasis will be placed on legal issues and health safety standards and regulations.
(3 contact hours)
FIS-201-(3)

## Fire Service Instructor I

Prerequisite: FIS-103
Introduces fire service course delivery skills. This course meets the guidelines of the Illinois Office of State Fire Marshal at Instructor I level. Qualifies personnel to conduct training and educational courses for fire service personnel. (3 contact hours)

## FIS-202-(3)

## Fire Service Instructor II

Prerequisite: FIS-201
A sequel to Fire Service Instructor I. Emphasis is on performance objectives, lesson plan development, instructional materials development, teaching and the learning process, teaching tactics, and related concepts required to meet certification as a Fire Service Instructor II. (3 contact hours)

## FIS-203-(3)

## Fire Apparatus Engineer

Prerequisite: Office of the State Fire Marshal Firefighter II Certification
Studies properties of pumps, fluids, force, pressure, and flow velocities as related to the development of fire fighting water streams. Emphasizes generation of fire streams in relationship to pumping capabilities, friction loss and water supply. Students will be able to operate various fire apparatus pumps and troubleshoot problems. (3 contact hours)

## FIS-204-(3)

## Hazardous Materials Operations

Prerequisites: FIS-101 and EMS-101, or Office of the State Fire Marshal Firefighter II Certification
This course studies hazardous materials emergencies. Topics include classification of hazardous materials, identifying hazardous materials, locating hazardous materials, hazards linked to different hazardous materials, and various fire department strategies followed to minimize the effects of hazardous materials incidents. (3 contact hours)
FIS-205-(3)

## Fire Service Leadership I

Prerequisite: FIS-103
Studies the role of the fire service company officer. Emphasizes the management functions of planning, organizing, staffing, directing, and controlling. Meets requirements for Management I as defined by the Illinois Office of the State Fire Marshal. (3 contact hours)
FIS-206-(3)

## Vehicle Rescue Operations

Prerequisite: FIS-113
This course is designed to develop student skills in the use and care of extrication equipment needed to perform in rescue, extrication and hazard control functions. Upon successful completion of this course, the student is qualified for state certification as an emergency rescue technician. Fee is required. (4 contact hours)

FIS-207-(3)

## Fire Fighting Tactics and Strategy II

Prerequisite: FIS-107 or consent of instructor
Studies various areas of fire fighting tactics and strategy. Provides the chief officer with fundamental knowledge required to operate at multicompany, extra-alarm fires. Covers disaster planning and hazardous materials incident management. (3 contact hours)

## FIS-209-(3)

## Fire Service Leadership II

Corequisite: Registration or credit in FIS-205 or consent of instructor
Designed to provide the student who is in charge of a single fire company or station with information and skills in personnel management. This course covers basic communications, report writing, interpersonal communications, group dynamics, safety, conflict resolution, and stress management. (3 contact hours)

## FIS-210-(3)

## Fire Service Leadership III

Prerequisite: FIS-205, FIS-209 or consent of instructor Studies the role of the fire officer who is in charge of multiple fire companies or stations. Emphasizes skills in officer supervision and administrative functions. Includes decision making, budgeting and finance, risk management, public relations, and the news media. (3 contact hours)

## FIS-211-(3)

## Fire Service Leadership IV

Prerequisite: FIS-210 or consent of instructor
Studies the role of the fire officer in personnel management. Includes performance evaluation, coaching and counseling skills, interviewing techniques, labor relations and collective bargaining, fire officer liability, and team building. (3 contact hours)

## FIS-212-(3)

## Fire Inspector I

Prerequisite: Office of the State Fire Marshal Firefighter II Certification
This course introduces the student to the roles and responsibilities of the Fire Prevention Officer. Significant events in the history of fire prevention are discussed. Regulations for working with hazards as established by agencies such as the National Fire Protection Agency and state statutes are explored. (3 contact hours)

## FIS-213-(3)

## Public Fire and Life Safety Educator

## Prerequisite: FIS-212

This course introduces the student to the roles and responsibilities of the Fire Prevention Officer-associated hazards involving flammable liquids, compressed gases and explosives, electricity, combustion engines, and laboratories. Regulations established by regulatory agencies such as the National Fire Protection Agency and state statutes are explored within the context of administrative procedures associated with fire prevention. (3 contact hours)

## FIS-214-(3)

## Fire Prevention Officer I (Module C)

Prerequisite: FIS-212 and FIS-213
This course prepares the student to design and deliver fire prevention programs to a variety of audiences, including children, senior citizens, and other civic groups. Resources available for program development will be explored. Mechanisms of fire prevention program evaluation also are surveyed. (3 contact hours)

## FIS-215-(3)

## Fire Service Academy I

Prerequisite: Consent of Instructor
This course provides an introduction to the Fire Service Academy and prepares students for courses II through V in the Fire Academy series. The course will cover the following areas: an introduction to the various careers related to the Fire Service, the history and development of public fire protection services, and the relationship of departmental functions to other governmental agencies. The course will provide an overview of the various skills and knowledge needed to function as a firefighter in the

Fire Service. Objectives for this course were developed based on training objectives prescribed by the Office of the State Fire Marshall (OSFM), and the codes and standards established by the National Fire Protection Association (NFPA) and Occupational Safety and Health Administration (OSHA).
(4 contact hours)
FIS-216-(3)

## Fire Service Academy II

Prerequisite: Consent of Instructor
This course studies basic built-in fire detection, alarm and extinguishing, including the examination of devices and systems installed in buildings to protect life and property, and to support the fire department through early detection and control. Students will learn to operate alarm panels, sprinkler risers and pull stations. The objectives for this course were developed based on training objectives prescribed by the Office of the State Fire Marshall (OSFM), and codes and standards established by the National Fire Protection Association (NFPA) and Occupational Safety and Health Administration (OSHA).
(5 contact hours)

## FIS-217-(3)

## Fire Service Academy III

Prerequisite: Consent of Instructor
This course provides a study of the basic principles of construction and use of fire apparatus and related equipment. Apparatus operation and maintenance of pumps, pumper procedure and tests, aerial ladders and aerial platforms and elementary fire ground hydraulic calculations are covered. Students will understand and relate the differences between an engine company, truck company and squad company. The objectives for this course have been developed based on training objectives prescribed by the Office of the State Fire Marshall (OSFM), and codes and standards established by the National Fire Protection Association (NFPA), and Occupational Safety and Health Administration (OSHA). (4 contact hours)
FIS-218-(3)

## Fire Service Academy IV

## Prerequisite: Consent of Instructor

This course provides an in-depth analysis of the various classifications of building construction, types of construction materials, and structural design. Students will discuss how the new energyefficient construction accelerates fire growth and raises backdraft potential. Fire resistance ratings, fire detection and suppression systems, and life safety considerations will be discussed. Building fire codes and laws will be introduced. The objectives for this course are developed based on training objectives prescribed by the Office of the State Fire Marshall (OFSM), and codes and standards established by the National Fire Protection Association (NFPA), and Occupational Safety and Health Administration (OSHA). (4 contact hours)
FIS-219-(3)

## Fire Service Academy V

Prerequisite: Consent of Instructor
This course presents an intensive study of the various skills needed to function as a firefighter in the Fire Service. Hose han-
dling, rope tying, ladder placement, SCBA use, ventilation skills will be taught and practiced. The objectives for this course were developed based on training objectives prescribed by the Office of the State Fire Marshall (OSFM), and codes and standards established by the National Fire Protection Association (NFPA) and Occupational Safety and Health Administration (OSHA).
(4 contact hours)

## FIS-220-(1)

## Fire Service Seminar

Corequisite: Co-registration in FIS-221; Permission of the Fire Service Technology Program Coordinator
This course introduces the student to the culture of the fire service. The student will learn how rank, seniority and tradition help to define the role of a firefighter. This course will cover firehouse humor and how firefighters deal with tragedy and crisis. Traditions and history of firefighting will be explored. Chain of command, delegation, and span of control will be discussed in relationship to a new firefighter. (1 contact hour)

## FIS-221-(2)

## Fire Service Internship

Corequisite: Co-registration in FIS-220; Permission of the Fire Service Technology Program Coordinator
This course introduces the student to the roles and responsibilities of a firefighter. Topics will include communications and fire extinguishers. Regulations established by regulatory agencies such as the National Fire Protection Agency and state statutes are explored within the context of administrative procedures associated with fire suppression. Students will be affiliated with and members of a Fire Department. (9 contact hours)

## FRE-French

## FRE-101-(4)

## French I

A course designed for beginning students in French to give practice in the fundamentals of speaking, understanding, reading, and writing everyday French. (4 contact hours)

## FRE-102-(4)

## French II

Prerequisite: FRE-101 or 2 years of high school French
A second-semester course designed for further development of linguistic skills by giving students in French practice in the fundamentals of speaking, understanding, reading, and writing everyday French. (4 contact hours)

## FRE-201-(4)

## French III

Prerequisite: FRE-102 or 3 years of high school French
This comprehensive review of grammar elements includes reading based on French civilization. Geographical, historical and literary viewpoints are covered. Increased use of French in class discussions is expected. (4 contact hours)

FRE-202-(4)

## French IV

Prerequisite: FRE-201 or 4 years of high school French Emphasizes mastery of basic language skills of aural comprehension, speaking, reading, and writing. Includes interpretation and discussion of selected novel or play. (4 contact hours) IAI: H1900

## GEL-Geology

## GEL-150-(4)

## Physical Geology

Introduces geological study of the earth. Geological principles and processes dealing with geomorphology, crustal movements, rock and mineral identification, volcanism, and sedimentation are covered. Includes aerial photo and topographic map interpretations and extensive field work in laboratory experiences. This course includes a one-hour laboratory component. Fee is required. (6 contact hours) IAI: P1907L

## GEL-151-(4)

## Historical Geology

Prerequisite: GEL-150
Introduces origin and structure of the earth. Emphasizes North America, growth of continents and mountain building. Studies evolution in plant and animal life as documented by fossil remains. Interpretation of geologic forces by means of topographic maps, geologic folios, aerial photos, and extensive field work are important segments of laboratory experiences. Fee is required. (6 contact hours)

## GEO-Geography

## GEO-101-(3)

## Cultural Geography

Analyzes special distribution and relationship among significant cultural factors. Population distribution and trends, human migration, settlement patterns, and urban problems are discussed. (3 contact hours) IAI: S4900N

GEO-102-(3)

## World Regional Geography

Major geographic regions of the world are explored. Includes geographic analysis of physical environments, and relationships between humans and physical environments. Influence of human existence on the environment is discussed. (3 contact hours) IAI: S4900N

GEO-201-(3)

## Economic Geography

Studies spatial distribution and interaction of economic activities. Analyzes tribal, traditional and modern economic societies. Emphasizes significance of urban industrial society and modern transportation. (3 contact hours) IAI: S4903N

## GER-German

GER-101-(4)

## German I

Speak and understand everyday German. Develops reading ability, introduces grammar and studies pronunciation. (4 contact hours)

GER-102-(4)

## German II

Prerequisite: GER-101 or 2 years of high school German Offers continued practice in speaking and understanding everyday German, including pronunciation. Emphasizes reading. Studies essentials of grammar and the influence of German culture and immigrants on the United States. (4 contact hours)

## GER-201-(4)

German III
Prerequisite: GER-102 or 3 years of high school German Introduces German culture. Reviews grammar. Emphasizes writing skills development. (4 contact hours)

GER 202-(4)

## German IV

Prerequisite: GER-201 or 4 years of high school German
An introduction to literature, this course is also a continued review of grammar and further development of writing skills. (4 contact hours) IAI: H1900

GER 250-(2)
Beginning German Conversation
This course is designed for beginners, accompanying the gram-mar-oriented German I course. The structure of the course includes dialogues and short texts, vocabulary and phrases, and language functions applied in various situations. This course is for students who will study at Salzburg College, Austria, and who meet certain academic requirements. (2 contact hours)

## GRN-Gerontology

GRN-101-(3)

## Introduction to Gerontology Careers

This course will introduce various careers available in gerontology. It will critically examine values, interests, and skills to maximize students' potential for finding the best career fit. Market research is explored to gain information specific to the details and employment outlook of unique gerontology career interests, necessary degrees or certifications, working environment and job outlook. (3 contact hours)

GRN-102-(3)

## Diversity in Aging

This course examines the experiences of older adults from diverse cultural and ethnic backgrounds and considers how these differences influence the aging process. It explores the impact of class, race/ethnicity, gender, economic resources, and health on growing older. Students will have an opportunity to consider their own diversity and how it influences their relationships and shapes the opportunities over the course of their lives. (3 contact hours)

## GRN-103-(4)

## Public Policy and Aging

This course is designed to provide a knowledge base for understanding the history, processes, outcomes and impacts of social policy affecting older Americans. It will examine the political systems and interventions for change in which older Americans participate. Students will obtain a perspective on the magnitude and character of problems facing our aging society. By examining public policies and forces that influence policy making, students will comprehend how the current policies for aging will affect the concerns and retirement in the future. (4 contact hours)

GRN-104-(3)

## Aging and the Health Care System

This course introduces students to the basic elements of the US health care system as it relates to aging. This broad field of study examines the sound aspects of disease distribution in the population, social stress, sickness and role behavior, medical education, the physician-patient relationship, and health care technology. (3 contact hours)
GRN-105-(3)

## Death and Dying

This course is designed to provide a knowledge base for understanding the circumstances and perspectives of dying persons and their families. A primary focus of the course will be on the open, collaborative, and frank discussion of concerns, issues, and questions regarding death and death-related issues. Concepts of death and dying will be studied from multiple and diverse viewpoints that will heighten the student's awareness of this life stage as an integral, natural and normal part of living. (3 contact hours)

## HAC-Heating and Air Conditioning

## HAC-105-(3)

## Air Conditioning Theory

Covers basic definitions and physics used in refrigeration. Gain working knowledge of properties of air and body comfort. Emphasizes air conditioning components and how they contribute to comfort. (3 contact hours)

## HAC-111-(4)

## Introduction to Controls

Covers electrical theory as it applies to servicing and installation of refrigeration, air conditioning and heating equipment. Emphasizes safety controls, motor circuits and space comfort control. Fee is required. (6 contact hours)

## HAC-115-(4)

## Basic Service Procedures

Provides knowledge needed in proper use of meters and gauges for diagnosing and solving problems. Fee is required. (6 contact hours)

HAC-140-(4)

## Sheet Metal Hand Forming

Provides the knowledge required in the utilization of forming and shaping sheet metal with the use of hand and machine tools. Utilizes previously learned skills in blueprint reading and layout to visualize and shape geometric designs. Fee is required. (6 contact hours)

## HAC-150-(4)

## Advanced Control Systems

Prerequisite: HAC-111
Installation, diagnosis and servicing of electrical systems used in split residential and small commercial air conditioning and refrigeration systems are covered. Emphasizes advanced control system needed to achieve comfort and safety. Fee is required. (6 contact hours)

## HAC-154-(4)

## Installation and Service

Prerequisite: HAC-115
Covers proper procedures for installing and servicing residential and commercial air conditioning, heating and refrigeration equipment. Emphasizes proper selection and use of tools. Fee is required. ( 6 contact hours)

HAC-158-(4)

## Introduction to Heating

Prerequisite: HAC-111
Explores various types of heating systems and servicing involved with each system. Fee is required. (6 contact hours)
HAC-180-(4)
Electronic Controls

## Prerequisite: HAC-111

Provides the knowledge required in the proper installation and diagnostic problem solving of electronic, solid state controls and circuits. Fee is required. (4 contact hours)

## HAC-233-(1)

## Seminar

Prerequisite: Student must be in the last semester of or have completed the HAC program
Corequisite: Enrollment in HAC-237 and consent of instructor Discussion of internship activities and problems, a student's performance, and any questions arising out of an internship. Development of professional attitude. Course strives to narrow the gaps between theory and on-the-job reality. (1 contact hour)

## HAC-237-(3)

## Internship

Prerequisite: Student must be in the last semester of or have completed the HAC program
Corequisite: Enrollment in HAC-233 and consent of instructor At HAC internship sites under the supervision of a technician, students will conduct installations and diagnostic problem solving on HVAC equipment. (15 contact hours)

## HAC-240-(5) <br> HVAC Troubleshooting

Prerequisites: HAC-105, HAC-150, HAC-154
This course provides students with the appropriate knowledge and skills in the proper advanced use of meters and gauges for diagnosing problems in heating and air conditioning equipment, and correcting the problems. (8 contact hours)

## HAC 250-(5)

Commercial Systems Operations
Pre-requisite: HAC-150, HAC-154, HAC-158, and HAC-180 or consent of instructor
This course is designed to provide students with practical theory and operating characteristics of Commercial Building HVAC systems and their applicable methods of control. Fee is required. (8 contact hours)

HAC 260-(4)

## Chiller Plant and Operations

Pre-requisite: HAC-150, HAC-154, HAC-158, HAC-180 or consent of instructor
This course is designed to provide students with practical theory and operating characteristics of chilled water chillers in a central plant environment. Fee is required. (6 contact hours)

## HAC 270-(4)

## Boiler Power Plant Operations

Pre-requisite: HAC-105, HAC-150, HAC-158, HAC-180 or consent of instructor
This course is designed to give the student a basic understanding of the theory and operation of a central heating and power generation plant. Fee is required. (6 contact hours)

## HDV-Human Development

## HDV-100-(2)

## Human Potentials

Corequisite: Registration or credit in COM-101
Become aware of your potential through discussion of achievements, strengths, values, and goals. Group participation is included. (2 contact hours)

HDV-111-(2)

## Career Planning

Examines theories and principles of career planning. Explores types of careers and jobs. Covers how to form an effective deci-sion-making strategy in choosing a career and how to be successful in a career. (2 contact hours)

## HIS-History

## HIS-101-(3)

## Western Civilization I

Surveys national, political, institutional, socio-economic, intellectual, religious, and cultural development of the West from ancient times to 1715 , with an emphasis on later developments. (3 contact hours) IAI: S2 902

HIS-102-(3)
Western Civilization II
Discusses the rise and decline of Western global dominance. Focuses on revolutionary developments in government, economics, science, and the arts since 1715. (3 contact hours)
IAI: S2 903

## HIS-105-(3)

## The World Since 1945

Covers Soviet-American rivalry and the growing prominence of the newly independent Third World states. Emphasizes effects of international organizations and technology. (3 contact hours)

HIS-201-(3)

## American History I

This survey-and-problems approach to American history from the Colonial Period through the Reconstruction Era covers intellectual, social and economic concepts. (3 contact hours) IAI: S2 900

HIS-202-(3)
American History II
This survey-and-problems approach to American history from the Gilded Age to the present covers the rise of modern industry, new social thought and international involvement. (3 contact hours) IAI: S2 901

## HIS-204-(3)

## African-American History

Covers the great African empires to the contemporary scene. Emphasizes problems of blacks and contributions of blacks to civilization. (3 contact hours)

## HIS-207-(3)

## Illinois and Local History

Covers major developments in Illinois and metropolitan Chicago from the prehistoric period to the present. Influence of major events, individuals, urbanization, and industrialization on the state's progress is discussed. (3 contact hours)

HIS-210-(3)
History of Asia
Surveys south, southeast and east Asian history from prehistoric times through World War II. Emphasizes religions and cultures, and early states. Western imperialism, the effect of World War II on Asian nationalism, and independence movements are examined. (3 contact hours) IAI: S2 908N

## HIS-211-(3)

## American Military Experience

Studies evolution of the United States military and its interrelationship with American society, government and economy. Includes popular attitudes, civilian control, military institutions, interservice rivalry, technology, ethics, limited and unlimited war, preparedness, and major campaigns. (3 contact hours)

## HIS-215-(3) <br> History of Africa

Surveys ancient times to the present, providing an overview of African people and their culture in the Orient, the Iberian peninsula and the African continent. Addresses major issues such as the impact of European expansionism, imperialism and colonialism; the growth of secularism and commercialism; and the emergence of national sovereignty, cultural hegemony and selfdetermination. (3 contact hours) IAI: S2 906N

## HIS-220-(3)

## History of Latin America

Covers significant political, economic and social developments in the history of Latin America, emphasizing certain key nations, including Mexico, Argentina and Brazil. (3 contact hours) IAI: S2 910N

HIS-230-(3)

## History of the Middle East

A study of the historical development of the Middle East, focusing on the rise and spread of Islam, growing Western dominance, the rise of nationalism, and modernization of the area as it exists today. Arab countries, Israel, Iran, and Turkey are covered. (3 contact hours)

HIS-250-(3)

## Survey of British History I

Conveys a broad perspective on British history to 1714 focusing on three major themes: the development of social and religious life in Britain; relations between England, Scotland, Wales, and Ireland; and links with Europe and the wider world. This course is for students who will study at Christ Church College, Canterbury, England, and who meet certain academic requirements. (3 contact hours)

## HIS-251-(3)

## Survey of British History II

A broad perspective on British history from 1714 focusing on three major themes: the development of social and religious life in Britain; relations between England, Scotland, Wales, and Ireland; and links with Europe and the wider world. This course is for students who will study at Christ Church College, Canterbury, England, and who meet certain academic requirements. (3 contact hours)

## HIS-254-(3)

## European Cities

Study European communities and institutions, and development of cities and urban social life. Covers urban planning and the response to growth, change and industrialization. Examine current life in European cities, and problems and comparisons to American cities, including social stratification, race and ethnic relations, growth, and regional planning. This course is for students who will study at Salzburg College, Austria, and who meet certain academic requirements. (3 contact hours)

## HSC-Health Sciences Careers

HSC-100-(2)
Basic Nursing Concepts
Prerequisite: Current LPN licensure and admission to ADN program or faculty recommendation for ongoing ADN students. For students who graduated five years or more ago from a nursing program, admission and awarding of credit for prior learning will be based on individual assessment. Students graduating from non-NLN accredited nursing programs will apply for transfer based on individual competencies, not the program articulation mandates set forth in the Illinois Articulation Agreement.
This course will serve as a review and update of content covered in a practical nursing program. It also will include an orientation to the Nursing A.A.S. Program and professional nursing to assist L.P.N.s successful transition to the new role. The course will focus on utilizing the nursing process with emphasis on assessment, nursing diagnosis, planning of interventions, and evaluation of care. Nursing content and concepts related to commonly occurring alterations will be reviewed, as well as principles of selected psychomotor skills. Demonstration of competencies appropriate to this level student will be required. (2 contact hours)

## HSC-110-(3)

## Introduction to Health Professions

This course is an overview of the health care industry, including medical ethics and law, trends in health care, and exploration of career options. It includes an introduction to medical terminology, anatomy and physiology, vital sign measurement, math for conversions, basic cardiac life support skills, and universal precautions training. (4 contact hours)

## HSC-120-(3)

## Pharmacology and Disease Processes I

Prerequisite: BIO-180
Corequisite: Enrollment or credit with grade of "C" or higher in BIO-181.
This course focuses on body systems and their functional interrelationships in health and disease. Discussions focus on understanding the pathophysiology of human conditions throughout the lifespan. Emphasis is on the application of physiological concepts in problem-solving. An understanding of drug classifications, dosing and administration and their interactions with health conditions are also covered. Beginning concepts regarding math for meds, IV, fluids and parental nutrition are included. (3 contact hours)
HSC-140-(3)
Pharmacology and Disease Processes II
Prerequisite: BIO-180, BIO-181 and HSC-120.
Corequisite: BIO-119
This course focuses on body systems and their functional interrelationships in health and disease. Discussions focus on understanding the pathophysiology of human conditions related to nervous and sense organs, endocrine systems, human embryology, and stress physiology throughout the lifespan. Emphasis is on the application of physiological concepts in problem-solving.

An understanding of complex drug classifications, dosing and administration, and their interactions with health conditions is also covered. Advanced concepts regarding math of meds, IV fluids and parental nutrition are included. (3 contact hours)

## HSC-150-(7)

## Basic Nurse Assistant Training

Prerequisite: 17 years of age; RDG-071 or placement at or above RDG-091 level; Valid U.S. Social Security Number
Corequisite: Verified/pass of criminal background check; CPR for Health Care Providers or current certification in CPR.
Upon successful completion of this 144-hour course, approved by the Illinois Department of Public Health, students may apply for the State certification exam and subsequent employment as a Certified nurse Aide in long-term care facilities, home health agencies, and hospitals. Lecture and lab sessions will be conducted on campus, with clinical rotations conducted at longterm care facilities. Participation requires: MVCC student ID, uniform, stethoscope, textbooks, wristwatch with second hand, health insurance, physical examination with required titer lab tests and two-step TB Mantoux skin test by the fourth week of the course. A valid U.S. Social Security number is required to be eligible for the State of Illinois Nurse Aide certification exam and placement in the State Registry. To continue in this course, it is mandatory that all students complete a criminal background check application at the first class session. The attendance policy requires no more than 12 hours' absence in lecture sessions only. Students must attend all lab and clinical sessions, as makeup sessions are not available for these sessions. Clinical schedule times will vary dependent upon site.

## HUM—Humanities

## HUM-101-(3)

## Western Humanities I: Foundations

This interdisciplinary course surveys artistic and intellectual expression from ancient Greece and Rome, the Middle Ages in Europe, and the Renaissance in Europe. It will explore works, figures, ideas, movements, and styles in history, literature, philosophy, religion, and the visual and performing arts that are significant to, representative of, and foundational to Western culture. (3 contact hours) IAI: HF902

## HUM-102-(3)

## Western Humanities II: Continuities

This interdisciplinary course surveys artistic and intellectual expression in Europe from the 17th century to the present. It will explore works, figures, ideas, movements, and styles in history, literature, philosophy, religion, and the visual and performing arts that are significant to, representative of, and foundational to Western culture. (3 contact hours) IAI: HF903

## HUM-115-(3)

## World Mythology

This comparative survey course will explore representative myths, stories, legends, tales, archetypes, motifs, icons, symbols, deities, heroes, rituals, etc., of various geographic areas
and time periods from both Western and non-Western cultures. Adjunctively, it will explore the nature and function of mythology, its role in human life, its historical and prehistorical origins, the similarities and differences among mythologies of various cultures, and a variety of theoretical approaches to interpreting mythology. (3 contact hours) IAI: H9901

HUM-120-(3)

## Women in the Humanities

This interdisciplinary course surveys the artistic and intellectual expression of women, from a variety of Western and non-Western cultures, from antiquity to the present. It will explore significant, representative, and foundational works, figures, ideas, movements and styles in history, literature, philosophy, religion, and the visual and performing arts, particularly within the contexts of gender identity and consciousness and the influence of gender on both the generation and reception of historical, philosophical, religious and artistic expression. (3 contact hours) IAI: HF 907D
HUM-135-(3)

## African and Middle Eastern Humanities

This interdisciplinary course surveys artistic and intellectual expression in Africa and the Middle East. It will explore works, figures, ideas, movements, and styles in history, literature, philosophy, religion, and the visual and performing arts that are significant to, representative of, and foundational to African and Middle Eastern cultures. (3 contact hours) IAI: HF904N

HUM-140-(3)

## Asian and Oceanic Humanities

This interdisciplinary course surveys artistic and intellectual expression in Asia and Oceania. It will explore works, figures, ideas, movements, and styles in history, literature, philosophy, religion, and the visual and performing arts that are significant to, representative of, and foundational to Asian and Oceanic cultures. (3 contact hours) IAI: HF904N

## HUM-145-(3)

## Native American Humanities

This interdisciplinary course surveys artistic and intellectual expression in native North America, Mesoamerica, South America, and the Caribbean. It will explore works, figures, ideas, movements, and styles in history, literature, philosophy, religion, and the visual and performing arts that are significant to, representative of, and foundational to native North American, Mesoamerican, South American, and Caribbean cultures. (3 contact hours) IAI: HF904N

## HUM-249-(3)

## British Culture and Society

The course looks at contemporary social, cultural and political life in Britain. Examine and analyze data on the family, leisure and economy. An introduction through lectures and visits to the heritage of British art and theater. Look at British political life and Britain's developing relations with the Commonwealth, Europe and the United States. This course is for students who will study at Christ Church College, Canterbury, England, and who meet certain academic requirements. (3 contact hours)

## HUM-251-(3)

## Austrian Civilization

This course is an introduction to Austrian history and culture. It focuses on historical, musical and artistic heritage of Austria ending with a survey of Austrian life today. This course is for students who will study at Salzburg College, Austria, and who meet certain academic requirements. (3 contact hours)

## IEL-Intensive English Language Program (IELP)

## IEL-062-(4)

## Beginning Intensive Speech

Prerequisite: Appropriate placement test score
This course is designed for the beginning ESL/international student who is not proficient in basic English conversation. The course emphasizes oral communication skills through an interactive approach. The course includes essential pronunciation and listening skills, as well as basic grammatical structures and patterns. In addition to listening and speaking, reading and writing are included. (6 contact hours)

## IEL-064-(3)

## Intermediate Intensive Speech

Prerequisite: IEL-062 with an grade of "C" or better or appropriate placement test score
This course is designed to enable intermediate academic ESL/international students to gain confidence and accuracy in speaking and listening, and to develop effective oral communication skills. It focuses on public speaking, small-group discussion, verbal idioms, and pronunciation. The course incorporates individual effort and group interaction to create the students' learning experiences. (4 contact hours)

## IEL-066-(3)

## Advanced Intensive Speech

Prerequisite: IEL-064 with an grade of "C" or better or appropriate placement test score
This course is designed for the advanced ESL/international student to develop more effective, confident and comfortable oral communication. It focuses on improvement of conversation. The course also teaches high-frequency idioms. (4 contact hours)

## IEL-072-(2)

## Beginning Intensive Grammar

Prerequisite: Appropriate placement test score
This course is designed for beginning-level academic ESL/international students who read and write in their own languages and who have some ability to connect words in simple sentences in English. This course includes an introduction to the basic points of English grammar, spelling and usage. (3 contact hours)

## IEL-074-(2)

## Intermediate Intensive Grammar

Prerequisite: IEL-072 with an grade of "C" or better or appropriate placement test score
This course is designed for intermediate-level academic ESL/international students to comprehend and use the basics of grammar and punctuation with simple, compound and complex sentences, and to use these sentences to develop effective paragraphs. (3 contact hours)
IEL-076-(2)

## Advanced Intensive Grammar

Prerequisite: IEL-074 with an grade of "C" or better or appropriate placement test score
This course is designed for the advanced ESL/international student. This course presents more difficult aspects of English grammar, spelling and syntax. (3 contact hours)

## IEL-082-(3)

## Beginning Intensive Writing

Prerequisite: Appropriate placement test score
This course is designed for beginning-level academic ESL/international students who read and write in their own languages and who have some ability to connect words in simple sentences in English. This course's writing component includes sentence patterns and paragraph structure. This course also provides listening, reading and speaking components. (5 contact hours)

IEL-084-(3)

## Intermediate Intensive Writing

Prerequisite: IEL-082 with an grade of "C" or better or appropriate placement test score
This course is designed for intermediate-level academic ESL/international students to develop the writing skills to express their ideas concisely and accurately. Emphasizes writing sentences, simple paragraphs and short compositions. (5 contact hours)

## IEL-086-(3)

## Advanced Intensive Writing

Prerequisite: IEL-084 with an grade of "C" or better or appropriate placement test score
This course is designed for the advanced ESL/international student who needs to develop the writing style required in business and academic classes. This course presents the principles of English rhetoric. The course includes the development of expository, analytical and argumentative essays, as well as the introduction to the basics of business English and researching skills. (5 contact hours)

## IEL-092-(4) <br> Beginning Intensive Reading

Prerequisite: Appropriate placement test score
This course is designed for the beginning ESL/international student to develop reading skills and strategies to become a more efficient critical reader. Emphasizes phonological awareness, word recognition, vocabulary building, and comprehension strategies. (6 contact hours)

## IEL-094-(4)

## Intermediate Intensive Reading

Prerequisite: IEL-092 with an grade of "C" or better or appropriate placement test score
This course is designed for the intermediate ESL/international student to develop reading skills and strategies to become a more efficient critical reader. Emphasizes vocabulary building, comprehension strategies, academic reading techniques, summarizing, and paraphrasing. ( 6 contact hours)

## IEL-096-(4)

Advanced Intensive Reading
Prerequisite: IEL-094 with an grade of "C" or better or appropriate placement test score
This course is designed for the advanced ESL/international student to develop reading skills and strategies to become a more efficient critical reader. Emphasizes vocabulary building, comprehension improvement, and inferential and evaluative reading. Students will apply new reading techniques to a variety of reading materials. (6 contact hours)

## IMM—Mechanical and Fluid Power Maintenance

## IMM-101—(3)

## Mechanical Systems I

Study fundamental components of mechanical systems such as pulleys, gears, chains, belts, couplings, and packing glands. Use of catalogs, trade references and writing of a maintenance report are included. (4 contact hours)

## IMM-103-(2)

## Machinery Moving and Set-Up

Learn the safe and correct movement of equipment. Preparing and rigging equipment, site preparation, mounting, leveling, and alignment of equipment are included. Fee is required. (4 contact hours)

IMM-107-(3)
Mechanical Systems II
Prerequisite: IMM-101
Learn to adjust and maintain mechanical systems such as pumps, transmissions, gear reducers, and assorted mechanical linkage systems. Study proper installation of bearings and bushings for these systems. Nondestructive evaluation is surveyed. (5 contact hours)

## IMM-110-(3) <br> Hydraulics

Covers hydraulic principles, circuits, oils, controls, valves, troubleshooting, repairing and rebuilding, and hydraulic pumps, motors and servo-systems. (5 contact hours)
IMM-115-(3)
Pneumatics
This course parallels the development followed in hydraulics: principles, circuits, meters, gauges, actuators, controls, troubleshooting, repairing, and rebuilding. (4 contact hours)

## IMS-Information Management Systems

## IMS-100-(1)

## Personal Computer Basics

This course is designed to assist students with no previous computer experience in defining computer terminology and acquiring basic navigation skills in the Windows environment. Students will develop an understanding of how computers can be used for personal and business use. Students with little or no previous computer experience are strongly encouraged to enroll in this course prior to or concurrent with enrollment in IMS-101, Introduction to Computer Systems or IMS-115, Introduction to PC Applications. Fee is required. (1 contact hour)

## IMS-101-(3)

## Introduction to Computer Systems

Prerequisite: Basic keyboarding skills strongly recommended This course provides an overview of computer hardware, software, networks, and the Internet. Topics include usage, terminology, hardware, software, utilities and operating system software, file management, programming, networks, researching on the Internet, and data security and privacy issues. Students are introduced to the elements of computer applications-word processing, database management, and presentation graphics. Students with little or no computer experience are strongly encouraged to enroll in IMS-100, Personal Computer Basics, prior to or concurrent with IMS-101. Students who successfully complete this course will possess the skills and knowledge necessary to take the Internet and Computing Core Certification exam (IC3). Fee is required. (4 contact hours)

## IMS-115-(3)

## Introduction to PC Applications

Prerequisite: Basic keyboarding skills strongly recommended This course is designed to develop integrated PC application skills required for the completion of personal and business projects using Microsoft Office Suite. Projects utilize fundamental techniques of word processing, spreadsheet, database management, and presentation graphics software as well as Windows and file management skills. Students with little or no computer experience are encouraged to enroll in IMS-100, Personal Computer Basics, prior to or concurrent with IMS-115. Keyboarding skills are recommended for successful completion of this course. Students may enroll in OSA-100, Keyboarding I. Fee is required. (4 contact hours)

## IMS-215-(3)

## Advanced PC Applications

Prerequisite: IMS-115
This course is designed to develop advanced PC application skills required for the completion of personal and business projects using Microsoft Office Suite. Advanced projects utilizing word processing, spreadsheet, database management, and presentation graphics software are included. Advanced collaborative features and application integration are also included. Keyboarding skills are recommended for successful completion of this course; students may enroll in OSA-100 to develop keyboarding skills. Fee is required. (4 contact hours)

## IST—Integrated Systems Technology

## IST-101-(3)

## Introduction to Machine Tools

This course provides a general introduction to machining as a foundation technology in manufacturing. Students will be introduced to the theory and operation of drilling, milling, and turning machines; speeds and feeds; and precision measurement. Fee is required. (5 contact hours)

## IST-109-(3)

## Prints for Industry

Introduces the interpretation of orthographic drawings for manufacturing. Students will read and interpret Process and Instrumentation Diagram (P\&ID) prints. Fee is required. (4 contact hours)
IST-111-(3)

## Threading, Milling, and Grinding

Prerequisite: IST-101 or consent of instructor
Studies single point threading on an engine lathe and horizontal milling. Introduces grinding and surface grinders. Fee is required. (5 contact hours)

## JPN—Japanese

## JPN-101—(4)

## Japanese I

Designed for beginning students, topics include pronunciation, useful Japanese expressions, speech patterns, reading, and writing. (4 contact hours)
JPN-102-(4)

## Japanese II

Prerequisite: JPN-101
This course continues Japanese I, with emphasis on listening and speaking skills, and reading and writing of Kana. (4 contact hours)

## JPN-201—(4)

Japanese III
Prerequisite: JPN 102 or consent of instructor
This course is designed for intermediate students in modern spoken Japanese. The course is a continuation of Japanese II, with emphasis on listening, speaking, reading, and writing of Kana and Kanji. (4 contact hours)

## JPN-202-(4)

## Japanese IV

Prerequisite: JPN 201 or consent of instructor
This course is designed for intermediate students in modern spoken Japanese. The course is a continuation of Japanese III, with emphasis on listening, speaking, reading, and writing of Kana and Kanji. (4 contact hours) IAI: H1 900

## JRN—Journalism

## JRN-101-(3)

## Introduction to Mass Communications

Corequisite: Registration or credit in COM-101
A course designed to examine the fundamentals of the media industry from a historic and economic perspective. Studies media function, rights, restrictions, responsibilities, and consequences as they apply to the consumer. Occupational opportunities will also be discussed. (3 contact hours)

## JRN-111-(3)

## Newswriting I

Prerequisite: JRN-101
Development of basic journalistic skills in reporting and writing news stories. Includes form and organization of news stories; leads; interviews; and human interest, investigative and interpretative stories. Emphasis is on news value, accuracy and copy preparation. (3 contact hours)

## JRN-112-(3)

## Newswriting II

Prerequisite: JRN-111
Advanced development of journalistic skills in researching, organizing, and writing news and feature stories. Includes writing techniques for print and telecommunications media. Emphasizes legal rights and ethical responsibilities of news reporting. (3 contact hours)

## LAN-Local Area Networks

## LAN-101-(1)

## Orientation to IT Professions

This course enables students to analyze the field of information technology. The class will include a survey of the IT professions, employment skills, definitions, associations, current issues, salaries, and self-assessment survey of skills and competencies. This course will meet three times during the semester. Students also will be required to create a student plan for the IT program at Moraine Valley. Course requirements include attending a local meeting of a professional association related to the field. (1 contact hour)

## LAN-102-(3) <br> Voice and Data Cabling

## Prerequisite: LAN-101

The Fundamentals of Voice and Data Cabling course is designed for students interested in the physical aspects of voice and data network cabling and installation. The course focuses on cabling issues related to data and voice connections and provides an understanding of the industry and its worldwide standards, types of media and cabling, physical and logical networks, as well as signal transmission. Students will develop skills in reading network design documentation, part list set up and purchase, pulling and mounting cable, cable management, choosing wiring closets and patch panel installation and termination as well as installing jacks and cable testing. This hands-on, lab-oriented course stresses documentation, design, and installation issues, as well as laboratory safety, on-the-job safety, and working effectively in group environments. This course will help prepare students for the BICSI Registered Certified Installer, level one. Fee is required. (4 contact hours)

## LAN-103-(1) <br> Security Awareness

This course is intended to provide a basic survey of the importance of IT security awareness and data confidentiality. This security awareness-training course walks users through every aspect of Information Security in a very broad, easy to understand way and explains to them the value of securing data, both for themselves and the organization. The class will introduce legislation, local, state and federal privacy policies and liability of individuals and institutions related to data confidentiality and integrity. The cost will introduce risk management, security policies, and common threats and countermeasures. The course will also present best practices in access control and password policies. Fee is required. (1 contact hour)

## LAN-111-(3)

## IT Essentials-A+

This course offers a hands-on approach to microcomputer maintenance. This course will introduce a history of personal computer evolution. Examine the bus architecture, CPU parameters and replacement considerations, memory, video systems, storage devices and input/output devices. The course will introduce the most popular and recent technologies. This course is designed to prepare the successful student for the Comptia A+ hardware certification. Fee is required. (4 contact hours)

## LAN-112-(3)

Managing IT - A+
This course offers a hands-on approach to managing information technology in a variety of environments. Students will be provided the skills needed to perform tasks such as installation, building, repairing, configuration, troubleshooting, optimizing, diagnosing, and preventive maintenance in the context of the field service or enterprise environment and interacting with customers remotely. The course will also introduce critical responsibilities commonly required in managing IT within an organization, including project management, help desk operations and information security. This course is aligned to the CompTIA A+ certification. Fee is required. (4 contact hours)

## LAN-121-(3)

## Network Essentials - Network+

This course provides an introduction to the operation of computer networks and networking devices. The course also provides an examination of the history and evolution of data communications and computer networks. Hardware and software network configurations, operations and requirements will be discussed. Topics include media and topologies, the OSI model, protocols and standards, network implementation, and network support. This course is designed to prepare the successful student for the Network+ certification. Fee is required. (4 contact hours)

## LAN-122-(4)

## Network Services

This course is a continuation of LAN-121 with an emphasis on network management, analysis and addressing. The course will introduce essential network services, such as ftp, http, dhcp, dns, messaging, authentication and wins. The course provides handson exercises in which each student will be required to configure network services. Emphasis will be on configuration, analysis, proactive maintenance, and troubleshooting. This course is designed to supplement the A+, Network+ and Server+ certifications. Fee is required. (5 contact hours)

## LAN-143-(3)

Digital Forensics
Prerequisite: LAN-121
This course instructs students in the preservation, identification, extraction, documentation, and interpretation of computer data. Students will learn to examine computer data for evidence of a crime or violation of corporate policy. Topics covered include evidence handling, chain of custody, collection, and recovery of computer data using forensic software and methods. (4 contact hours)
LAN-146-(3)

## Internetwork Connectivity

The course introduces the various communication equipment used in building an effective Internet infrastructure. The course provides product-specific installation and configuration. Equipment used in this class includes bridges, routers, gateways, integrated services digital network (ISDN) modems, digital and channel service units (DSU/CSUs), and ISDN pipelines devices. Fee is required. (4 contact hours)

## LAN-150-(3)

## Managing Windows Desktop

This class will introduce the Windows desktop technology. The class will include installation and configuration of Windows desktop products. Topics include user management, hardware and software configuration and security. Students will also configure network printing and dial-up services. This class is designed to prepare the student for the Microsoft Certified Professional examination. Fee is required. (4 contact hours)

## LAN-153-(3) <br> IT Security Essentials - Security+

## Prerequisite: LAN-122 or consent of instructor

This course introduces the basics of network security. The student is introduced to computer network vulnerabilities and threats. This course exposes the student to network security planning, network security technology, network security organization, and the legal and ethical issues associated with network security. Fee is required. (4 contact hours)

## LAN-163-(3)

## IT Security Practices-SCNP

Prerequisite: LAN-153 or consent of instructor
This course introduces the network security specialist to the various methodologies for attacking a network. The student will be introduced to the concepts, principles and techniques, supplemented by hands-on exercises, for attacking and disabling a network. These methodologies are presented within the context of properly securing the network. The course will emphasize network attack methodologies with the emphasis on student use of network attack techniques and tools. Fee is required. (4 contact hours)

## LAN-201-(3)

## Storage Management

## Prerequisite: LAN-122

Study the management and maintenance of a local area network. Topics include installation procedures, user account administrations, customizing user environments, preventive maintenance procedures, designing and administering printing services, planning and implementing network security, and managing network performance. Fee is required. (4 contact hours)

## LAN-220-(3)

## Managing UNIX Environments

This course is an introduction to the UNIX operating system for end users and is complementary to the other Cisco networking courses, such as routing and switching. This course will provide a strong foundation for those who wish to move on to more advanced courses in UNIX system administration. You will become familiar with powerful UNIX command line utilities as well as the graphical Common Desktop Environment (CDE). By successfully completing this course, you will be well on your way to becoming a power user and will feel comfortable with most varieties of UNIX including Sun's own Solaris. Fee is required. (4 contact hours)

## LAN-223-(3)

## Managing Messaging Services

Prerequisite: LAN-122 or consent of instructor
This course is an introduction to messaging and collaboration services for system administrators. This course will provide a strong foundation for those who wish to implement and administer corporate messaging systems. You will become familiar with Exchange as well as other popular POP and SMTP services such as Sendmail. Additional topics will include directory service configuration, deploying email clients, and instant messaging. A basic introduction of certificates, virtual services and key management will be covered along with concepts of backup and recovery systems for business continuity. Fee is required. (4 contact hours)

LAN-224-(3)

## Managing Web Servers

Prerequisite: LAN-122
This course provides hands-on exercises. Each student will be required to install Internet Web services, including Hypertext Transfer Protocol (HTTP), File Transfer Protocol (FTP), Simple Mail Transfer Protocol (SMTP), TELNET, Dynamic Host Configuration Protocol (DHCP), Bootstrap Protocol (BOOTP), Domain Naming System (DNS), Network File System (NFS), and Simple Network Management Protocol (SNMP). The operating system platforms used in this class include UNIX, Netware, and Windows NT. Fee is required. (4 contact hours)

## LAN-230-(3)

## Managing Windows Servers

## Prerequisite: LAN-122

This class introduces the Windows Server. The class will include installation and configuration of Windows Server. Topics include user management, hardware and software configuration, and security. Students also will configure network services, including DNS, DHCP, ADS, printing and network routing. This class is designed to prepare the student for the Microsoft Certified Professional examination. Fee is required. (4 contact hours)

## LAN-233-(3) <br> Managing Database Services

Prerequisite: LAN-122 or consent of instructor
This course is an introduction for installing, configuring, and troubleshooting SQL Server database systems. This course will provide a strong foundation for those who wish to implement and administer corporate database systems. You will become familiar with SQL Server as well as be introduced to other popular database services such as Oracle. Additional topics will include installing or upgrading to SQL Server, configuring database options, managing security, monitoring and fine-tuning system performance, and performing backups and restorations. A basic introduction of the SQL language, directory services, and server management will be covered along with concepts of backup and recovery systems for business continuity. Fee is required. (4 contact hours)

## LAN-241-(3) <br> LAN/WAN Security

Prerequisite: LAN-121
Provides an introduction to LAN and WAN security. Topics in this course include identifying the types of information technology threats, physical security, access security, file system security, fire design, and legal issues related to security. This course is designed to assist individuals for preparing for the CISSP certification process. (4 contact hours)

## LAN-243-(3) <br> Computer Forensics

## Prerequisite: LAN-143

Students will be introduced to the profession of computer forensics and investigation as well as the tools and techniques used in the investigative process. Emphasis is on major hardware and software tools, digital evidence controls, and the processing of crime or incident scenes. This hands-on course teaches students the details of data acquisition, computer forensic analysis, e-mail investigations, image file recovery, report writing, and expert witness requirements. (4 contact hours)

## LAN-246-(3)

## Routing and Switching - CCNA

Prerequisite: LAN-122 or consent of instructor
This class provides a hands-on learning experience in managing, supporting, troubleshooting and optimizing an organization's network infrastructure. This class introduces the installation, configuration and management of network switches and routers. Students will compare and contrast different routing and switching protocols and services. This class will provide an overview of command and graphical interfaces used to access and configure network devices. Fee is required. (4 contact hours)

## LAN-250-(3) <br> Windows Directory Services

Prerequisite: LAN-230
This class will introduce the Windows 2000 Directory Services. The class will introduce Active Directory Services, including installation, configuration and design. Topics include directory structure, replication and distribution. This class is designed to prepare the student for the Microsoft Certified Professional examination. (4 contact hours)

## LAN-251-(3)

## WLAN Design - CWNA

## Prerequisite: LAN-246 or consent of instructor

This is an introductory course in wireless local area networking. The course encompasses the design, planning, implementation, operation and troubleshooting of wireless LANs. The course will provide a comprehensive overview of technologies, security, and design best practices. The course will include hands-on installation and configuration of wireless client adapters, routers, access points, repeaters, bridges, and other wireless devices. The class will introduce multi-vendor equipment. Fee is required. (4 contact hours)

## LAN-253-(3)

## Managing Network Security I

Prerequisite: LAN-122
This course introduces the network security specialist to the various methodologies for defending a network. The student will be introduced to the concepts, principles, types and topologies of firewalls to include packet filtering, proxy firewalls, application gateways, circuit gateways and stateful inspection. Fee is required. (4 contact hours)

## LAN-256-(3) <br> LAN Design-CCNA

Prerequisite: LAN-122 or consent of instructor.
This course is designed to provide a hands-on experience in implementing and configuring complex Cisco multi-switched networks. The class will include an introduction to switched Ethernet networks, virtual LAN technology, spanning-tree protocols and configuration of Cisco switching devices. The class will also include advanced router concepts including access list management, IPX and IP filtering, traffic management, and IGRP implementation. Students will demonstrate the use of the Cisco IOS to configure network switching and routing devices. Fee is required. (4 contact hours)

## LAN-260-(3)

## Internship

Prerequisite: 24 credits in LAN or MIS classes
This course is a supervised occupational field experience in a student's area of study. Duties should be of a technical nature but provide broad work experience in the field of study. The internship assignment is planned by the student and internship program coordinator. Fee is required. (15 contact hours)

## LAN-263-(3) <br> Managing Network Security II <br> Prerequisite: LAN-253 or consent of instructor

Expose the student to the various defense methodologies associated with Virtual Private Networks (VPN), Host Intrusion Detection Systems (HIDS) and Network Intrusion Detection Systems (NIDS). Introduce the student to the best practices associated with properly securing business critical network systems using VPNs. Fee is required. (4 contact hours)

## LAN-266-(3) <br> WAN Design-CCNA

Prerequisite: LAN-122 or consent of instructor
This course is a project in WAN design. The class will include an overview of WAN technologies and WAN configurations on a Cisco router. The second part of the class involves the design, implementation, configuration and demonstration of a fully functional enterprise intranet including HTTP, FTP, NNTP and Email services. Fee is required. (4 contact hours)
LAN-269-(3)
Advanced Routing
Prerequisite: LAN-266 or CCNA certification
This class will introduce advanced routing protocols required on scalable networks. Topics include OSPF, EIGRP, and BGP operations and configuration. Building scalable networks addresses those tasks that network managers and administrators need to perform when managing access and controlling overhead traffic in growing routed networks once basic connectivity has been established. BSCN discusses router capabilities used to control traffic over LANs and WANs, as well as connecting corporate networks to an Internet Service Provider (ISP). The class is designed to prepare students to pursue the Cisco CCNP examination. (4 contact hours)

## LAN-270-(3) <br> Converged Network Design

Prerequisite: LAN-266 or CCNA certification
This course introduces techniques and features enabling or enhancing WAN and remote access solutions. This course includes cable modems and digital subscriber line (DSL) with network address translation (NAT), multi-protocol label switching (MPLS) virtual private networks (VPNs), and network security using VPNs with IPsec encryption and Internet key exchange (IKE) keys. Successful students will be able to secure the network environment using existing Cisco IOS security features, and configure the three primary components of the Cisco IOS firewall feature set (firewall, intrusion prevention system IPS)), and authentication, authorization and accounting (AAA). (4 contact hours)

## LAN-271-(3)

## Multi-Layer Switch Network Design

Prerequisite: LAN-266 or CCNA certification
This course prepares the student to install, configure and maintain multilayer enterprise switched networks. The students will learn how to create an efficient and expandable enterprise network by installing, configuring, monitoring, and troubleshooting network infrastructure equipment according to the Campus Infrastructure module in the Enterprise Composite Network model. The class is designed to prepare students to pursue the Cisco CCNP examination. (4 contact hours)

LAN-272-(3)

## Advanced Troubleshooting

## Prerequisite: LAN-266 or CCNA certification

This course is designed to enable students to optimize their networks as mobility and converged networks become more prevalent in today's businesses. Students will learn about the new Intelligent Information Network model (IIN) and the ServiceOriented Network Architecture (SONA) as architectural frameworks for converged networks. These networks bring with them a number of VoIP-related challenges, and students will be given an understanding of VoIP network essentials. In order to ensure the quality in a converged network, students will work with concepts and implementation methods of Quality of Service (QoS). (4 contact hours)
LAN-273-(3)

## Network Security Design

## Prerequisite: LAN-253

This course affords the network security specialist the opportunity to conduct a vulnerability analysis upon a network in order to practice or refine the attack methodologies with the hacker tools and techniques to which the student was exposed during the various program courses. The student must demonstrate the ability to design, plan and execute a vulnerability analysis against an organization network. The student must prepare a written report of the security design, attack methodology, tools and techniques. Fee is required. (4 contact hours)

## LAN-274-(3)

## Managing VoIP Services

Prerequisite: LAN-266
This course prepares a student for installing, configuring and maintaining a Cisco IP telephony solution. Emphasis is on Cisco CallManager, the call routing and signaling component for the Cisco IP telephony solution. The lab practice will instruct students on the installation and configuration of Cisco CallManager; configuration gateways, gatekeepers and switches; and build route plans to place intra- and inter-cluster Cisco IP phone calls. Additional topics will include the installation of the Cisco unified messaging system. (4 contact hours)

## LAN-280-(3)

## High Availability Virtualization

Corequisite: LAN-272
This course provides instruction and labs including installing the VMware ESX Server, creating virtualized switches and storage, creating and managing virtual machines, establishing access controls and performing resource monitoring. There are also lectures and labs on VMotion, Distributed Resource Scheduling, and High Availability. Virtualization architecture, its applications, and best practices will also be discussed. Fee is required. (4 contact hours)

## LIT-Literature

## LIT-205-(3)

## Literature for Children/Young Adults

Prerequisite: COM-101
Survey of the genre of literature for children through young adults, analyzing the social, cultural, and intellectual implications, instruction methodology, including critical thinking assessment, criteria for selection and utilization of literary works-based language development, learning opportunities, and curricular resources in schools and the community. (NOTE: Only 3 credit hours can be earned for either EDU-205 or LIT-205. Duplicate credit in both courses will not be awarded). (3 contact hours)

LIT-213-(3)

## American Literature I

Prerequisite: COM-101
American writing from 1600 to the Civil War is explored. Covers the development of analytical, interpretive and critical skills through a study of the literature, its authors and their environments. (3 contact hours) IAI: H3 914

LIT-214-(3)

## American Literature II

Prerequisite: COM-101
Covers American writing from the Civil War to the present. Approach to literature is the same as LIT-213. (3 contact hours) IAI: H3 915

## LIT-215-(3)

## Bible as Literature I

Prerequisite: COM-101
This course is an analysis of selected books of the Old Testament, with emphasis on literary concepts: allegory and parable, history, epic, fiction, poetry, prophecy, tragedy, myth, and legend. (3 contact hours) IAI: H5 901

## LIT-216-(3)

## Bible as Literature II

Prerequisite: COM-101
Analyze selected books of the New Testament, with emphasis on literary concepts such as narration, gospel, allegory, history, epistle, apocalypse, myth, and legend. (3 contact hours) IAI: H5 901

## LIT-217-(3)

Introduction to Poetry
Prerequisite: COM-101
An examination of the role of imagery, diction, form, figurative language, and other poetic devices for creating and manipulating sound and sense. Also explore poetry as a literary genre. (3 contact hours) IAI: H3 903

LIT-218-(3)
Introduction to Drama
Prerequisite: COM-101
This course is a survey and analysis of representative plays from various periods. Includes study of dramatic techniques, and types and elements in selected readings from classical Greek to present-day drama. (3 contact hours) IAI: H3 902

## LIT-219-(3)

## Women in Literature

## Prerequisite: COM-101

Characterization and archetypes of women as presented in literary works are covered. Includes works by authors of both sexes. Emphasis is on female writers frequently ignored in anthologies of literature. (3 contact hours) IAI: H3 911D

LIT-220-(3)

## Introduction to Fiction

Prerequisite: COM-101
Plot structure, narrative technique, character depiction and theme, and fiction as a literary genre are examined. (3 contact hours) IAI: H3 901

## LIT-221-(3)

## English Literature I

Prerequisite: COM-101
Covers the Middle Ages to the Romantic period, with an emphasis on literary interpretation and evaluation of major authors. (3 contact hours) IAI: H3 912

## LIT-222-(3)

## English Literature II

Prerequisite: COM-101
Covers the Romantic period to the present, with emphasis on literary interpretation and evaluation of major authors. (3 contact hours) IAI: H3 913

## LIT-223-(3)

## Western Literature I

## Prerequisite: COM-101

This course is an analysis of Greek, Roman, Medieval, and Renaissance works as intellectual and religious foundations of modern Western thought. (3 contact hours) IAI: H3 906

## LIT-224-(3)

## Western Literature II

Prerequisite: COM-101
Selected works of universal significance from 1850 to the present are included. Emphasis is on influential European authors and literary trends. Independent study is encouraged. (3 contact hours) IAI: H3 907

## LIT-225-(3)

Shakespeare
Prerequisite: COM-101
Study representative comedies, tragedies and historical plays using interactive technologies or actual play performances to explore contemporary and critical interpretations. (3 contact hours) IAI: H3 905

## LIT-226-(3)

## Literature of the Non-Western World

## Prerequisite: COM-101

This course introduces literature translated into English by writers from non-Western cultures, for example, Asian (East, South-east and South), African, and Middle Eastern, with an emphasis on the intellectual, social, and political context of their works. It will examine genres and literary trademarks in significant representative texts from these cultures while also exploring the aesthetics, religions, histories, and philosophies that shape these cultures' contribution to the world. (3 contact hours) IAI: H3 908N

## LIT-227-(3)

## Literature as Film

Prerequisite: COM-101
This course studies formal and thematic relationships between literary and cinematic forms, including significant examination of adaptations and influences that demonstrate the strengths of each artistic medium. (3 contact hours) IAI:HF908

## LIT-230-(3)

## African American Literature

Prerequisite: COM-101
This course is designed to explore selected significant issues and concerns from the African American literary canon in the context of key historical moments such as slavery, Jim Crow, Harlem Renaissance, the Civil Rights Movement, and the Black Arts Movement, leading into contemporary historical development. Special attention will be paid to representations of race, religion and gender. This course will examine multiple African American perspectives in response to historical issues and developments. (3 contact hours) IAI:H3910D

## LIT-299-(4)

## Independent Study in Literature

Prerequisite: COM-101
The student and instructor decide on an area of study in the field of literature. The student contracts with the instructor to complete certain projects for three to four credit hours. (variable contact hours)
This course may be taken four times for credit.

## LSC-Travel Business Management

## LSC-106-(3)

## Introduction to Travel Planning

Designed to prepare students for specialized travel/tourism curriculum courses by introducing them to travel/tourism services, the travel/tourism industry, basic terminology, and available reference sources. Career opportunities are examined. (3 contact hours)

## LSC-108-(3)

## International Travel

Provides instruction in international travel, international documentation requirements, worldwide travel codes and terminology, international hotels and tour manuals. Includes an introduction to international travel geography. (3 contact hours)

## LSC-109-(2)

## Tour/Itinerary Planning

Prerequisite: LSC-106
Provides instruction in domestic tour and itinerary planning, tour documents and manuals, hotel directories, and specialty services. Includes tour escorting, group meeting and convention planning, and major modes of transportation. (2 contact hours)

## LSC-110-(3)

## Fundamentals of Meeting Planning

Provides an overview of meeting planning including: housing, transportation, catering, function arrangements, audiovisuals, budgeting, negotiations, and legal issues. (3 contact hours)

## LSC-122-(3)

## Special Events Management

The purpose of this course is to acquire an in-depth knowledge about the specialized field of event management, and to become familiar with management techniques and strategies required for successful planning, promotion, and implementation and evaluation of special events. (3 contact hours)

## LSC-130-(3)

## Airline Ticketing I

Provides basic instruction in domestic airlines reservation and ticketing procedures. Includes use of the North American edition of the Official Airline Guide, fares, fare rules, and tariffs. (3 contact hours)

## LSC-131-(2)

## Airline Ticketing II

Prerequisite: LSC-130 or consent of instructor
Provides instruction in advanced domestic ticketing procedures. Includes the use of tour orders, MCOs and PTAs, as well as ticket revalidation, re-issues, exchanges, and airline promotion coupons. Basic international airline reservations, the worldwide edition of the OAG, and ticketing procedures, including fares and taxes, will also be emphasized. (2 contact hours)

## LSC-133-(2)

## Client Communications

This course is designed to emphasize the importance of verbal, nonverbal and written modes of communication in industry. Emphasis will be placed on written business correspondence, professional selling skills, problem solving, and developing a positive customer service attitude. (2 contact hours)

## LSC-140-(3)

Airline Computing-Sabre
Provides intensive instruction in the airline computer reservation system. Through a simulation system, students learn to create airline schedule availability and flight status displays; the functions necessary to sell the flight space, and how to build a basic passenger name record; assign seats; use client profiles; work queues; modify data and itineraries; and related techniques. (4 contact hours)

## LSC-141-(3)

## Airline Computing-Apollo

Provides intensive instruction in the airline computer reservation system. Through a simulation system, students learn to create airline schedule availability and flight status displays; the functions necessary to sell the flight space and how to build a basic passenger name record; assign seats; use client profiles; work queues; modify data and itineraries; and related techniques. (4 contact hours)

## LSC-210-(2)

## Travel Agency Management

## Prerequisite: LSC-106 or consent of instructor

Provides intensive instruction in the management of travel agencies with focus on agency operations, office management, legal aspects, automation, and personnel administration. Covers the complex and varied relationships among travel suppliers, tour operators, tour wholesalers, and others involved in the travel distribution system. (2 contact hours)
LSC-214-(3)

## Destination Planning-North America

Instruction in domestic travel will include the United States, Canada, Mexico, Bermuda, and the Caribbean islands. Points of interest; location of major cities, ports, airports, tourist attractions, air, land and sea companies and travel resources will be emphasized. It encourages students to develop research skills, using print, electronic, and human resources to help meet client wants and needs. (3 contact hours)

## LSC-225-(2)

## Cruising: A-Z

Provides an overview of the cruise industry, including cruise companies, cruise geography, ships, passenger profiles, brochures, promotion, and selling. (2 contact hours)

## LSC-234-(3)

## Internship-Travel

Prerequisite: Consent of instructor or program coordinator Corequisite: Registration in LSC-238
Planned and supervised career field experience relating to the student's degree program. Student will intern in travel-tourism sites or related agencies. (15 contact hours)

LSC-238-(1)
Seminar-Travel
Prerequisite: Consent of instructor or program coordinator Corequisite: Registration in LSC-234
Sharing, evaluating and integrating internship experiences are involved in this seminar. (1 contact hour)

## MAS-Massage Therapy

MAS-101-(1)

## Introduction to Massage

Students are given an introduction to therapeutic massage. Students are exposed to terminology, anatomy and physiology, safety and equipment, scope of practice, and strokes. Students have hands-on experience with massage therapy and will practice on each other. (1.5 contact hours)

## MAS-110-(4)

## Basic Swedish Massage

Prerequisite: MAS-101 with a "C" or better, MRT-110, BIO-115, or BIO-180 and BIO-181, and valid CPR and First Aid Certificate. Current CPR and First Aid cards must be presented and copied prior to enrollment.
Students will learn the benefits of touch and a Swedish massage from head to toe. Discussions will include pathologies and any benefits, precautions and/or contraindications as well as the proper massage techniques. Students will begin the process of client information collection. (5 contact hours)

MAS-112-(4)

## Sports Massage

Prerequisite: MAS-110 and PEH-160
Students will learn the basis of exercise physiology, joint mobilization, pre-and post-event, maintenance massage, stretches and care of frequent sports injuries. Thermotherapy and heatrelated injuries for the professional and amateur athlete will be discussed. (5 contact hours)

MAS-114-(4)

## Massage Modalities

Prerequisite: MAS-110
Students will be introduced to several specialties in massage such as chair massage, pregnancy/infant massage, stone massage, Oriental approach to massage, and energy work. Introduction to such modalities as cranio-sacral, orthobionomy and reflexology will also occur. (5 contact hours)

## MAS-118-(4)

## Business, Ethics, and Documentation

Prerequisite: MAS-101
Students explore aspects of developing and maintaining a successful therapeutic massage practice. Ethical issues related to massage are discussed, and a code of ethics is developed. Standards of practice are discussed. Documentation skills are discussed and formulated. (4 contact hours)

MAS-120-(2)

## Massage Lab Practicum

Prerequisite: MAS-110, MAS-112, MAS-114, MAS-118
Students are supervised in a clinic-style setting. This course provides an opportunity for students to apply the principles, techniques and procedures practiced in professional massage therapy. Students demonstrate proper client-therapist communication skills (including chart documentation), draping techniques and sanitary precautions. (6 contact hours)

## MDT-Mechanical Design and Drafting/CAD

## MDT-100-(2)

## Introduction to Computer Graphics

Surveys computer graphics hardware and software fundamentals. Develops basic concepts and skills of computer representation of graphical information. An introduction to the basic usage of CAD, animation, desktop publishing, business graphics, and Web pages. Emphasize graphical areas relating specific areas of study and complete a term project. Fee is required (4 contact hours)

## MDT-101-(3)

## Introduction to Drafting

Includes theory, technical skills, industrial applications, practices of technical sketching and use of CAD, geometric construction, multiview drawings, basic dimensioning, sectional views, and auxiliary views, pictorials, and developments. Fee is required. (5 contact hours)

## MDT-106-(2)

## Mechanical Assemblies

Prerequisite: MDT-101 or consent of instructor Corequisite: MDT-110
The theory, technical skills, industrial applications, and practices of mechanical assembly and pictorial drawing are presented. Bill of materials, subassemblies, standard parts, fasteners, dimensioning, and CAD techniques are covered. Fee is required. (3 contact hours)

## MDT-110-(3)

## Mechanical Detailing

Prerequisite: MDT-101 or consent of instructor Corequisite: MDT-106
The design considerations and industrial applications of castings, forgings, stampings, and machined components are emphasized. Fit specifications and geometric dimensioning and tolerancing are introduced. Fee is required. (5 contact hours)

## MDT-115-(2)

Applied GDT
Prerequisite: MDT-101 or consent of instructor
An introduction to the latest revision of the ASME Y14.5M standard for geometric dimensioning and tolerancing (G D \& T). Students will learn to read and apply geometric tolerancing to mechanical detail drawings. Emphasizes applying geometric dimensioning and tolerancing to drawings of actual mechanical parts. Fee is required. (3 contact hours)

## MDT-120-(3)

## Fundamentals of 2D Design

This course introduces students to the basics of 2-dimensional design concepts used for the production of graphic communications. Emphasis is placed on learning the fundamental tools, theories and principles of design. Students will design layouts for production from electronic formats for outputting to a variety of print media. Primary software program used is Adobe Illustrator. (5 contact hours)

## MDT-145-(3)

## Introduction to Computer Aided Drafting

Study theory and practice of current use of computer aided drafting and design. Includes hardware configuration, computer math and software capabilities. Generate two- and three-dimensional orthographic drawings as well as pictorial techniques, including cursor manipulation, digitizing, direct display interaction, editing, storage and retrieval, rotation, zooming, panning, scaling, mirroring, printing, and plotting. Fee is required. (5 contact hours)

## MDT-160-(3)

## Introduction to 3D Modeling

Prerequisite: MDT-145
Covers the basics of 3D wire frames, surface modeling, solids modeling, and rendering. Students learn the concepts and techniques required to construct 3D objects, including 3D coordinates, spherical coordinates, and surface and solids modeling. User coordinate systems and multiple viewports are also discussed. Students construct a variety of objects using these techniques. Objects are rendered to slides and hard copy. Models produced with rapid prototyping equipment will also be studied. Fee is required. (5 contact hours)

## MDT-190-(2)

## Construction Blueprint Reading

Introduces the use of blueprints and construction documents as used in the building industry. The course covers residential, light commercial and multistory construction. Principles of reading working documents such as plans, elevations, sections, and
details related to the following: architectural, civil, electrical, HVAC, plumbing, structural plans, and specifications. The course is helpful for apprentices, students of architecture, estimators, contractors, real estate, and employees who work in the construction industry. (3 contact hours)

## MDT-205-(3)

## Machine Elements

Prerequisite: MDT-106, MDT-110, MDT-145 or consent of instructor
Machine elements and basic mechanisms are covered. Elements to be studied specifically are gears, cams, bearings, belt and chain drives, splines, and linkages. The focus will be on the calculation, selection and application of these elements in mechanical design. Fee is required. (5 contact hours)

## MDT-209-(2)

## Hydraulics and Pneumatics

Prerequisite: MTH-135 or consent of instructor
The study of the basic theory and applications of hydraulic and pneumatic components and circuits. Special attention is given to the application and design use of hydraulics and pneumatics for power transmission and the control of industrial processes. Fee is required. (3 contact hours)

## MDT-210-(3)

## Statics and Strength of Materials

Prerequisites: MDT-205, MTH-142 or MTH-150, PHY-150, or consent of instructor
This course introduces statics and the study of internal stresses in machine members involving tensile tests and lab reports. Calculations on equilibrium of loaded beams, columns, the use of standard reference tables, and moments of inertia are studied. (3 contact hours)

## MDT-213-(3)

Plant Engineering Drafting
Prerequisite: MDT-145 and MTH-135 or consent of instructor Study piping layouts, symbols and detailing; electrical drafting of wiring diagrams, welding drafting, structural detailing and materials handling. Cover CAD applications to these techniques in detail. Fee is required. (5 contact hours)

## MDT-220-(3)

## Tool Drafting

Prerequisite: MDT-106, MDT-110 or consent of instructor Introduction to die, jig, drawing, theory, technical skills, industrial application and typical practices in tooling drawings are studied. Fee is required. ( 5 contact hours)

## MDT-233-(3)

## Internship

Prerequisite: 30 hours in the Mechanical Design and
Drafting/CAD Program or consent of Program Coordinator Corequisite: Registration in MDT-237
Gain planned, supervised work experience as a mechanical design/CAD intern. Emphasizes use of human relations, technical and communication skills. (15 contact hours)

MDT-237-(1)<br>\section*{Internship Seminar}<br>Prerequisite: 30 hours in the Mechanical Design and Drafting/CAD Program or consent of Program Coordinator<br>Corequisite: Registration in MDT-233<br>Discussion of various experiences and issues encountered during supervised mechanical drafting design/CAD internship. (1 contact hour)

MDT-245-(3)
Applied CAD
Prerequisite: MDT-145 or consent of instructor
This course covers the application of CAD hardware and software in mechanical design. Students will generate two-dimensional orthographic drawings, including dimensioning styles and techniques and file management. Students will also create symbol libraries, attributes with symbols, merge parts into assemblies, and create tables from attribute extractions. Both theoretical and practical applications are stressed. Fee is required. (5 contact hours)

MDT-255-(3)
Machine Design
Prerequisite: MDT-205 or consent of instructor Corequisite: MDT-210
This course presents topics including design of machines, assembly drawings, bearings, machine elements, shaft design, statics, material selection, layouts, calculations and cost estimation. CAD applications to machine design are studied in detail. Fee is required. (5 contact hours)
MDT-260-(3)

## CAD Management

Prerequisite: MDT-145 or consent of instructor
Study the application of operating systems, system management, user management, networking and integration as it relates to the CAD field. Each student will explore the features, commands, components, drives, files, and procedures, as well as the use of system and network management procedures and software in the Novell, Ethernet, and Windows NT 95/98, Windows 2000 environments. Fee is required. (5 contact hours)

## MDT-265-(3) <br> CAD Programming Techniques

Prerequisite: MDT-145 or consent of instructor
CAD programming techniques to cover Lisp, C and/or Visual BASIC, macro writing, menu and icon construction, libraries, database and third-party software. The student, in consultation with staff, will select and solve a design problem using the CAD programming techniques in mechanical design, plant engineering, structural, tool design, systems process design, material handling, or other mutually agreed upon project. Fee is required. (5 contact hours)

## MDT-275-(3)

## Introduction to Animation

Corequisite: MDT-100 or consent of instructor
Covers the basics of 2D and 3D animation and rendering. Students learn the concepts and techniques required to con-
struct 2D and 3D objects. These include simple modeling, 3D shaping. lofting, animating, keyframing, 3D editing, materials mapping, and simple morphing. Students design projects using these techniques with the use of tools and inks, color palettes, 2D and 3D CAD geometry, maps and rendering processes. Fee is required. (5 contact hours)

## MDT-276-(3)

## Applied Animation Techniques

Prerequisite: MDT-275 or consent of instructor
This course covers the applied techniques of 2D and 3D animation and rendering. Students learn the applied concepts and techniques of modeling with modification techniques that use the materials editor, special effects lighting, geometric modifiers, keyframing and tracking to derive practical animation solutions to complex animated effects. Fee is required. (5 contact hours)

MDT-277-(3)

## Computer Character Animation

Prerequisite: MDT-275 or consent of instructor
This course covers applied character animation. Students learn the concepts and techniques required to construct biped and physique techniques. These include skeletal animation for 2 legged characters. Physique modifiers applied to models to achieve realistic skinning deformations to animated characters are also studied. Fee is required. (5 contact hours)

## MDT-278-(3)

## Design Visualization

Students will be introduced to the creation and display of 3D computer scenes of architectural and industrial objects. Students will learn how to import and adjust previously created 3D geometry from a variety of CAD software. Material properties, surfaces, and lights will be added to develop photo-realistic scenes. Camera animations including "walk-thrus" or "fly-bys" will be discussed and developed. Course topics include 3D geometry, rendering, lighting (basic and advanced), photometric lights, radiosity, material creation, editing and mapping, raytracing, and camera effects. Build and animate simple hierarchies and produce basic time, length, key frame animation will also be studied, A student final project will be completed at the end of the course. Fee is required. (4 contact hours)

## MDT-279-(3)

## Storyboarding

Covers basic to advanced storyboarding. Students will learn how to traditionally draw out storyboard projects using discussed techniques and styles; build a storyboard with drama, mood and excitement; develop their own style; and incorporate storyboarding into computer animation. Cinematic techniques, terminology, camera angles for the most drama, scene and shot development, character development, character expressions, dramatic character positioning and movement, coloring, and scene environment also are covered, as well as a basic understanding of the entire film production process. (5 contact hours)

## MDT-280-(3)

## Video Integration

Provides the student with a basic understanding of image compositing in 3D space. The fundamental concepts of creating composites, paint projects, developing animations, and applying visual effects are introduced. Students will learn how to combine layers, 3DS Max animations, and effects into composites. Software used will be Discreet Combustion. (5 contact hours)

## MDT-281—(3)

## Introduction to Flash

Covers the basics of creating animated, vector-based Web content using Macromedia Flash. Students will learn how to create interactive vector graphics and animations. (5 contact hours)

## MDT-282-(3)

## Advanced Flash for 3D Animation

Prerequisite: MDT-281 or consent of instructor
Covers advanced concepts of integrating 3D models and animations into Macromedia Flash. Students will learn how to optimize and import 3DS MAX files into Flash. (5 contact hours)

## MDT-283-(3)

Character Modeling
Prerequisite: MDT-275
Corequisite: Registration or credit in MDT-277 or consent of instructor
Provides a basic understanding required for designing, building and mapping 3D computer characters. The fundamental concepts of character design are explored for producing high-resolution and low-polygon count models. Students will learn a variety of modeling techniques necessary to build and properly map models. (5 contact hours)

## MDT-284-(3)

## Dynamic Simulations

## Prerequisite: MDT-275

Covers the simulation and physical behaviors of complex models in a 3D environment. Students learn the applied concepts and techniques required for creating realistic physics-based animations. (5 contact hours)

## MDT-285-(3)

## 3D Parametric Modeling

Prerequisite: MDT-145 or consent of instructor
This course offers a comprehensive solution to enhance design projects by incorporating 3D parametric technology. The course is designed for students already accomplished at creating 3D models using native surface/solid modelers. It is intended to help students advanced beyond the level of basic parametric design modeling. (5 contact hours)

## MDT-287-(3)

## Game Design

This course will introduce the student to computer game design. All manner and type of computer games will be discussed including the history and future of computer games. Students will learn to analyze, evaluate and review computer games. Game design theory and concepts will be introduced and students will develop ideas for games. Marketing and presentation issues will also be investigated. Fee is required. (4 contact hours)

## MDT-288-(3)

## Applied 3D Parametric Modeling

Prerequisite: MDT-285 or consent of instructor
Introduces the use of local and global parameters in the area of 3D parametric modeling. Students will learn to control parts with design variables, 3D constraints, variable dimensions, tabledriven parts, mathematical operators, and adaptive techniques. Rapid prototyping of models will be incorporated. (5 contact hours)

## MDT-289-(2)

## 3D Parametric Assemblies

Prerequisite: MDT-288 or consent of instructor
Introduces the concepts and design techniques of 3D parametric mechanical assemblies. Topics include assembly constraints, global parameter usage in assembly modeling, interference checking, animation/kinematic analysis, and parametric control of assembly components. Orthographic (2D) drawings will be created from 3D assembly and part models. Rapid prototyping will be incorporated. (3 contact hours)

## MDT-290-(3)

## Introduction to Architectural CAD

Prerequisite: MDT-145, MDT-190 or consent of instructor
This course covers the application of production architectural/construction drawings using CAD. Floor plans, sectional views, details, schedules, and elevations used for residential and light commercial construction are studied. Fee is required. (5 contact hours)

## MDT-291-(3)

## Applied Architectural Facilities

Prerequisite: MDT-290 or consent of instructor
This course covers the applied application of production drawings for light to medium industrial construction using CAD. Fee is required. (5 contact hours)

## MDT-292-(3)

## Applied CAD Commercial Facilities

## Prerequisite: MDT-290

This course covers the applied application of drawing of commercial and light industrial construction utilizing BIM (building information model) technologies. Students will explore methods of fast tracking the design of a 2D/3D architectural building model, developing the building model with parametric components, and detailed architectural plans, schedules and documentation. This course is designed to introduce students to concepts, practices, standards, and drafting techniques needed
in creating a BIM project from concept through construction documents. Students will learn both the content and skills necessary to become a proficient drafter in the field of architecture and understand the BIM process. (5 contact hours)

## MDT-293-(3)

## Game Design Elements

Prerequisite: MDT-100, MDT-275, MDT-287
This course surveys the design elements used in game design. Emphasis is placed on the creation of digital maps, which could be applied within a game or virtual set. Applications include digital content such as environmental backgrounds, buildings, characters and props. Within a collaborative setting, students will research and design the digital content as used in a professional studio. This course is intended for students to enhance their Photoshop skills, material creation and mapping skills as they apply to working with characters in 3D environments. (5 contact hours)

## MIS-Management Information Systems

## MIS-105-(3)

## Programming Principles

Corequisite: IMS-101 or IMS-115
This course serves as a foundational course for students in programming and other computer courses, and is recommended for all students and professionals pursuing careers in information technology. Emphasis is placed on problem solving, logic, and control of the computer through use of a high-level programming language. Key concepts include variables and data types, loops, decisions, functions, and arrays. Students enrolling in MIS-105 should already demonstrate a proficiency in file management. Fee is required. (4 contact hours)

## MIS-108-(1)

Internet Basics
This course is intended to familiarize the student with the Internet. Basic computer literacy is assumed. Students will be presented with an overview of Internet basics and the fundamentals of browsers, the World Wide Web, e-mail, and other Internet utilities. Students in this course will complete projects that integrate the skills learned in all applications. (1.5 contact hours)

## MIS-111-(3)

## Internet Technologies

This course is designed for students who are expecting to enter the information technology field, or for non-technical professionals who are pursuing related careers such as the business, sales and marketing of Internet solutions. This course prepares students for an Internet technology certification exam (CompTIA I-Net+). A wide range of material is covered about the Internet, from using the Internet to demonstrating how the Internet works, using various Internet protocols, programming on the Internet, the Internet infrastructure, security, and e-commerce. It not only introduces a variety of concepts, but also presents an in-depth coverage of the most significant aspects of Internet, such as the OSI model of networking. In addition to explaining concepts, the course uses a mul-
titude of real world examples of networking issues from a professional's standpoint. Fee is required. (4 contact hours)

MIS-120-(3)
RPG Programming I
Prerequisite: MIS-105
This course introduces the elements of RPG programming and program documentation using RPG IV. The basics of the RPG language, the production of reports, and the usage of files are emphasized. Fee is required. (4 contact hours)

## MIS-121-(3)

## Networking for Business

## Prerequisite: MIS-111

This course is designed to provide a comprehensive understanding of networking technologies, concepts and terminology specifically used within the business environment. A variety of network equipment will be examined, including hubs, routers, switches, and NICs. LAN architectures also will be discussed. Students also will learn how to install, manage, maintain, and secure various types of Web servers. Topics include TCP/IP, IPv6, OSI communications model, network design, network cabling, and network management and services. Fee is required. (4 contact hours)

## MIS-123-(3)

## Database Design

Prerequisite: IMS-101 or IMS-115, with a grade of " $C$ " or better This course is designed to teach the principles of database design. It will focus on the study of relational database design and data modeling, and will provide students with opportunities to gain experience in table normalization, setting up entity relationships, creating entity-relationship diagrams (ERDs) in accordance with industry standards, and constructing databases from ERDs using database management systems software. This class is for students with at least one semester of PC applications experience, including some practical exposure to a database management system. Popular database management system and modeling software will be utilized in class projects and other hands-on assignments and demonstrations. Students should be aware that there are both theoretical and practical components to this course. Fee is required. (4 contact hours)

## MIS-139-(3)

VB.NET Programming I
Prerequisite: MIS-105 with a grade of " C " or better or consent of instructor
This course is an introduction to the VB .NET computer programming language and its use in solving problems from business or other disciplines. Topics include problem-solving, algorithm design and implementation, user-interface design, visual-, event-driven, and object-oriented programming, along with testing and debugging methodologies. Programming language elements introduced will include scoped and typed variables, decision and repetition structures, arithmetic and string functions, user-defined procedures, arrays, structured types, and file processing. Fee is required. (4 contact hours)

## MIS-141-(3) <br> Web Page Authoring and Publishing

Prerequisite: MIS-111 or consent of instructor
This course introduces the student to Web authoring and publishing using Extensible Hypertext Markup Language (XHTML) and cascading style sheets (CSS). In this class, the student will learn how to plan, design, create, and test Web pages. The basic XHTML structure and the elements and attributes supported in XHTML will be covered. Topics include formatting text, including images, constructing tables and lists, connecting web pages using hyperlinks, creating forms, incorporating multimedia, and using style sheets to create layouts. The student also will learn how to publish a Web site using a File Transfer Protocol (FTP) client. Fee is required. (4 contact hours)

## MIS-146-(3)

## Operating Systems

Prerequisite: IMS-101 or IMS-115 or ELT-112
This course introduces students to various operating systems used for personal and business applications. The current Microsoft Windows Operating System is covered comprehensively. Windows OS commands, Mac OS, IBM OS, and Open Source OS (such as Linux) are highlighted. Security issues and a brief overview of TCP/IP are also included. Fee is required. (4 contact hours)
MIS-154-(3)

## C\# Programming I

Prerequisite: MIS-105 with a grade of "C" or better
This course is designed to teach introductory topics in PC application development by using both a conceptual and hands-on approach. This course will focus on the study of the C\# programming language and will provide students with opportunities to gain experience using C\# to create both console applications and event-driven GUI applications. This is an applications programming class for students with at least one semester of programming experience. The C\# programming language will be examined, as will the Visual Studio.NET development environment. Popular development software will be utilized in class projects and other hands-on assignments and demonstrations. Students should be aware and comfortable understanding there are both theoretical and practical components to this course. Fee is required. (4 contact hours)

## MIS-160-(3)

## C++ Programming I

Prerequisite: MIS-105 or CSC-140 with a grade of "C" or better This course introduces C++ programming language to students already familiar with basic programming principles. Fundamentals are illustrated through the coding and execution of programs. Problem-solving and algorithm development are emphasized in program design through procedural, structured and object-oriented programming techniques. Topics include basic variable types, arithmetic and logical expressions, control structures, classes, objects, functions, arrays, strings, simple inheritance, and sequential files. Fee is required. (4 contact hours)

## MIS-176-(3)

JAVA Programming I
Prerequisite: MIS-105 with a grade of "C" or better
This course introduces the Java programming language to students already familiar with basic programming principles. Program design using structured, top-down and object-oriented programming approaches within the Java technology environment is emphasized. Topics include basic variable types, arithmetic and logical expressions, control structures, classes, objects, methods, arrays, strings, simple inheritance, and sequential file processing. Fee is required. (4 contact hours)

## MIS-197-(3)

## E-Commerce Development

## Prerequisite: IMS-101 or consent of instructor

This course provides an introduction to the development of an ebusiness by using both a conceptual and hands-on approach. This approach is used to allow for the acquisition of necessary business and technological skills before designing and building Web applications. Popular development software will be utilized in class projects and other hands-on assignments and demonstrations. Fee is required. (4 contact hours)

## MIS-199-(1)

## Special Short Topics in Technology

This course covers different technology topics based on emerging technological advances. The topics to be covered during a particular semester will be identified with narrative by section number in the College schedule of classes. A syllabus documenting the specific topics, description, objectives, and information about prerequisite skills for the course will be available as each section is added to the schedule. This course may be taken up to three times for credit as long as different topics are selected. Fee is required. (1 contact hour)

## MIS-200-(3)

## Special Topics in Technology

This course covers different technology topics based on emerging technological advances. The topics to be covered during a particular semester will be identified with narrative by section number in the College schedule of classes. A syllabus documenting the specific topics, description, objectives, and information about prerequisite skills for the course will be available as each section is added to the schedule. This course may be taken up to three times for credit as long as different topics are selected. Fee is required. (4 contact hours)

## MIS-210-(3) <br> Project Management

This course is designed for students who are expecting to enter the information technology field, or for non-technical professionals who are pursuing related careers in business, sales or marketing. Students in this course use case studies to enhance their ability to function as project leaders. While exploring the project life cycle, they gain experience in budgeting and timeline management. Students use software to design project schedules using tools such as bar charts, program evaluation review technique (PERT) and critical path method (CPM), and produce project plans to apply to case studies. Students are expected o have computer application experience (for example the Microsoft Office Suite), good file management skills and some understanding of business concepts. Fee is required. (4 contact hours)

MIS-220-(3)

## RPG Programming II

Prerequisite: MIS-120
This course continues the development of skill in the use of RPG IV. Interactive applications, tables, arrays, and structured coding techniques are used to write, compile, and run programs. Advanced topics such as procedures, subfiles, modular programming, and APIs provide the foundation for moving from older RPG environments to the modern RPG IV language. Fee is required. (4 contact hours)

## MIS-221-(3)

## Interactive Programming for RPG

Prerequisite: MIS-220
This course introduces the concepts and principles of structured design as applied to interactive programs. Using top-down development, specific RPG and DDS coding techniques are used to implement structured interactive programs. Basics of subfile processing, a tool for increasing productivity, and modular programming are explored. Collaborative learning is utilized to create a semester-long capstone project as well as smaller programming development projects throughout the semester. Fee is required. (4 contact hours)

## MIS-239-(3)

## VB.NET Programming II

Prerequisite: MIS-139 with a grade of "C" or better, or consent of instructor
Corequisite: MIS-123
This course introduces the student to use of the Visual Basic .NET programming language to solve problems from business and other disciplines. Students will be introduced to software design and development using visual, event-driven, procedural, structured, object-oriented, and n-Tier architecture techniques. Topics will include coverage of multi-form applications, arrays, database processing, object serialization, standard collections, structured exception handling, and creation of reusable components with classes. (4 contact hours)

## MIS-241-(3)

Advanced Web Page Authoring
Prerequisite: MIS-105 and MIS-141
This course introduces JavaScript to students already familiar with XHTML and cascading style sheets for the purpose of building interactive Web sites. Using a hands-on approach, students will analyze problems, develop solutions, and debug and test those solutions. Topics include basic data types, literals, variables, operators, control structures, functions, browser objects, document objects, event handlers, regular expressions, dynamic content, and cookies. Fee is required. (4 contact hours)

## MIS-251-(3)

## ColdFusion Programming

Prerequisite: MIS-123 and MIS-241
This course is designed to provide students with a comprehensive understanding of ColdFusion for the purpose of developing dynamic, data-driven Web sites. Using a hands-on approach, students also will develop Web applications using server-side technologies. Topics include ColdFusion variables and logic, form processing and validation, database manipulation, exception handling, cookies, and sessions. Fee is required. (4 contact hours)

## MIS-254-(3)

## C\# Programming II

Prerequisite: MIS-154 with a grade of " $C$ " or better
This course is designed to teach intermediate-level topics in PC application development by using both a conceptual and handson approach. This course will focus on the continued study of the C\# programming language and will provide students with opportunities to gain experience using $\mathrm{C} \#$ to create both console applications and event-driven GUI applications using object oriented techniques. This is an applications programming class for students with at least one semester of programming experience in the C\# language. Popular development software will be utilized in class projects and other hands-on assignments and demonstrations. Students should be aware and comfortable understanding there are both theoretical and practical components to this course. Fee is required. (4 contact hours)

## MIS-259-(3)

## Flash ActionScript

Prerequisite: MIS-123 and MIS-241
This course provides students with a comprehensive understanding of ActionScript, Macromedia Flash's object-oriented programming language. Using a hands-on approach, students will develop interactive interfaces, animations, and data-driven applications. Topics include variables and properties, functions, methods, event handling, arrays, objects, core and user-defined classes, components, managing data, and multimedia. Fee is required. (4 contact hours)

## MIS-261-(3) <br> C++ Programming II

Prerequisite: MIS-160 or CSC-240 with a grade of "C" or better This course is an intermediate study of the C++ programming language for students already familiar with fundamental C++ topics. Concepts of object-oriented programming (OOP) design are emphasized. Topics include the specification of classes and creation of objects using data abstraction, levels of inheritance, polymorphism, using variables and arrays with pointers, dynamic memory allocation, binary file I/O, exceptions, templates, basic database concepts, and the standard template library. Fee is required. (4 contact hours)

## MIS-264-(3)

## C++ Software Development

Prerequisite: MIS-123 and MIS-261 with a grade of " $C$ " or better This course in an advanced study in software development of students already skilled with the C++ programming language. Using the Visual C++.NET environment to design and implement Windows-based applications is emphasized. Topics will include a graphical user interface with controls, event handling, document/view architecture, exceptions, database concepts, Microsoft Foundation Classes (MFC) and managed .NET frameworks, and an introduction to unmanaged and managed code interoperability. Fee is required. (4 contact hours)

## MIS-276-(3)

## Java Programming II

Prerequisite: MIS-176 with a grade of " C " or better
This course is an intermediate study of the Java programming language. Concepts of object-oriented program design are emphasized. Topics included are classes and inheritance, graphical user interface and event handling with applications and applets, basic graphics, exceptions, multithreading, collection classes, serialized I/O, record processing, basic database concepts, and networking. Fee is required. (4 contact hours)

## MIS-283-(3)

## Java Web Applications

Prerequisite: MIS-123 and MIS-276 with a grade of " $C$ " or better This course presents advanced topics in the development of Java Web components and is designed for students already skilled with the Java programming platform. The focus of study is on Java technology and models for servlets and JavaServer Pages (JSP) used to construct dynamic Web applications and includes topics on Web containers, session management, expression Ianguage, standard actions, standard and custom tags, deployment, security issues, and design patterns. This course will include a comprehensive final project and will help students prepare for the Sun Certified Web Component Developer (SCWCD) exam. Prior knowledge of XHTML, JavaScript, and XML will be useful but is not required. Fee is required. (4 contact hours)

## MIS-284-(3)

## XML.NET Web Services

Prerequisite: MIS-239 or MIS-254 with a grade of "C" or better and MIS-123 with a grade of "C" or better
Students will learn to create XML Web Services using their choice of C\# or VB .Net. Full component development cycle issues will be addressed; including design, implementation, debugging, testing, and deployment. Topics will include ASP.NET, ADO.NET, XML, Remoting Objects, and the Web Services Architecture. Emphasis will be placed on preparing the student for MCAD Exams 70-310 and 70-320. Fee is required. (4 contact hours)

MIS-285-(3)

## ASP.NET Web Applications

Prerequisite: MIS-239 or MIS-254 with a grade of "C" or better and MIS-123 with a grade of "C" or better
Students will learn to create ASP.NET web applications using their choice of C\# or VB.NET. Full application development cycle issues will be addressed; including design, implementation, online user assistance, testing, and deployment. Topics will include XML Web Services, ADO.NET, globalization, security and authentication, optimization, structured exception handling, component creation, and session state management. Emphasis will be placed on covering topics for MCAD Exams 70-305 and 70-315. Fee is required. ( 4 contact hours)

## MIS-286-(3)

## Java Software Development

Prerequisite: MIS-123 and MIS-276 with a grade of "C" or better This course is an advanced study in software development for students already skilled with using the Java programming language. The design of both client-side and server-side applications is emphasized. Topics include design patterns, networking, relational database concepts, servlets, remote method invocations, Java Bean development, security, graphics, and multimedia. Fee is required. (4 contact hours)

MIS-287-(3)

## Visual BASIC For Applications

Prerequisite: MIS-139 with a grade of "C" or better and working knowledge of Excel and Access
This course is designed to teach the use of Visual Basic for Applications (VBA) programming language to customize and automate office productivity applications. Emphasis is on the Object Model as applied to popular office spreadsheet and database applications. Fee is required. (4 contact hours)

## MIS-289-(3) <br> .NET Desktop Application Development

Prerequisite: MIS-239 or MIS-254 with a grade of "C" or better and MIS-123 with a grade of "C" or better
Students will learn to create complete Windows desktop applications using their choice of C\# or VB. NET. Full software development cycle issues will be addressed; including design, implementation, help system integration, testing, and deployment. Topics will include the .NET Framework, Structured Exception Handling, advanced Object-Oriented features (such as inheritance, polymorphism, patterns, etc.), ADO.NET, Crystal Reports, XML and Serialization, Globalization, Application Security, Remoting, and Web Services. Emphasis will be placed on covering topics on MCAD Exams 70-306 and 70-316. Fee is required. (4 contact hours)

## MIS-291-(3)

## Systems Analysis and Design

Prerequisite: MIS-123 with a grade of "C" or better
This course teaches students how to apply object-oriented modeling techniques, tools and methodologies to define a system specification. Emphasis will be on following the Unified Process (UP) to analyze a real-world business problem, evaluate a variety of options, and design a solution within stated constraints. The focus will be on the earlier phases of the software development lifecycle and the application of the Unified Modeling Language (UML) use cases and design patterns. Students will apply what they are learning by actively participating in a semester-long project to design a solution to an identified business problem. (4 contact hours)

## MIS-292-(3)

## SQL/Database Applications

Prerequisite: MIS-123 with a grade of "C" or better
This course is designed to teach the use of Structured Query Language (SQL) to construct, modify, and maintain relational databases. Emphasis is on SQL and its uses in business applications. Hierarchical, network and relational models are covered. Additional topics include data redundancy, data independence, security, and data integrity. Fee is required. (4 contact hours)

## MIS-295-(3)

## Internship

Prerequisite: Consent of instructor and minimum 2.0 GPA after 30 credit hours of MIS curriculum
This course emphasizes planned and supervised career field experience relating to a student's occupational program. Student works at least 15 hours a week. Topics include preparation for job search, resume and cover letter, job interviews, and professional development. Fee is required. (15 contact hours)

MIS-296-(1)
Seminar

## Prerequisite: Consent of coordinator

Discuss internship activities and problems. Emphasis is on the operation of a complete system in an organization, teamwork and interpersonal skills. (1 contact hour)

## MIS-297-(3)

## Data-Driven Websites

Prerequisite: OSA-135
This course is designed to teach students how to create datadriven Web sites for e-commerce using popular development software tools. Students develop, implement, and work with databases, database connections, Web-enabled interfaces, server-side security, and shopping cart applications. User interface design principles for e-commerce storefronts and applications will also be examined. This is very much a technical, analytical and creative class. Students will apply what they are learning by actively participating in a semester-long project to design and develop a data-driven Web site. As the students develop this project throughout the semester, various e-commerce theories will be re-examined. Fee is required. (4 contact hours)

MIS-298-(3)

## E-Commerce Policy and Strategy

Prerequisite: MIS-105, MIS-197 and MIS-297
This course is designed to provide students with a comprehensive and integrated understanding of e-commerce development from start to finish. The course will cover both technical and management concepts, and will allow students to work in groups while they apply their knowledge through hands-on exercises and case projects. Students will experience the relationship that develops between management and software engineering in a business environment as they develop an electronic commerce application. Topics include defining the entrepreneurial process; creating a business, marketing and financial plan; recognizing the characteristics and role that e-commerce plays in the global market; working with human resources; and developing an ecommerce Web site. (4 contact hours)

## MOA-Medical Assistant

## MOA-115-(4)

## Clinical Laboratory Procedures

Prerequisite: MRT-110 or BIO-115 or PHB-110
This lecture/laboratory course emphasizes the performance of waived tests as approved by the Clinical Laboratory Improvement Amendments. Waived testing methods include point of care testing in urinalysis, hematology, chemistry, immunology and microbiology. Topics in specimen processing, record keeping, CPT coding, laboratory infection control, quality assessment, quality control and reference ranges of tests performed are also considered. (6 contact hours)

MOA-130-(2)

## Law and Ethics in HealthCare

This course is designed to provide learners with a foundation in medical law and ethics. Topics include key points of law, interpretation of statutes, legal and regulatory guidelines that impact healthcare, as well as ethical dilemmas. Emphasis is given to the medical office professional's interaction with the legal profession. In addition to understanding patient rights, employee rights are also explored (2 contact hours)

## MOA-140-(3)

## Medical Office Administration

This course introduces the student to the role of the medical assistant. A medical assistant is an allied health professional who functions as a member of the multidisciplinary health care team. This course focuses on the administrative and general duties associated with medical assisting in an ambulatory care setting. Topics include administrative and general duties, safety practices, communication skills and techniques, patient reception, appointment scheduling, basic bookkeeping procedures, operational functions and the preparation and maintenance of medical records. Professionalism, ethical principles, reasoning and issues pertaining to confidentiality are emphasized. (4 contact hours)

## MOA-142-(3)

## Medical Office Finance Systems

Prerequisite: MRT-110
This course surveys the various financial systems used in the medical office. An overview of banking, billing, coding, insurance procedures, and management of medical office finances is included. (4 contact hours)

MOA-144-(3)
Pharmacology—Principles/Applications
Prerequisite: BIO-115 and MRT-110
This course follows a lecture/laboratory format. Instruction is provided in the basic concepts of pharmacology in medical assisting. Topics include the general aspects of pharmacology, legal and ethical issues in pharmacology, the mathematical knowledge necessary to master the calculations of commonlyused medications, the principles and practices of medication administration, and medications related to body systems and patient education. (4 contact hours)

## MOA-147-(6)

## Medical Assistant Clinic Procedures

Prerequisite: BIO-115 and MRT-110
This course uses a lecture/laboratory format. This course provides the student with both the theory and practical applications of the clinical aspects of medical assisting. It is designed to provide the theoretical and practical basis for performing clinical procedures in the medical office/clinic setting. Topics include but are not limited to: patient assessment, basic psychological principles, physical examination and patient treatments, vital signs, patient education, medical emergencies and assisting the physician in medical specialty examinations and minor surgery. Students will learn the theoretical, technical and practical aspects of infection control, medical and surgical asepsis and EKG. Includes observation and performance of clinical procedures in a laboratory setting. Fee is required. (8 contact hours)

MOA-155-(3)
Medical Assistant Externship
Prerequisite: MOA-115, MOA-130, MOA-140, MOA-142, MOA144, MOA-147, and PHB-110
Corequisite: MOA-156
Students are assigned to clinical affiliate sites for supervised clinical experience. Emphasis is on achieving competency in entry-level skills within the context of the ambulatory care setting. Fee is required. (10 contact hours)

MOA-156-(1)

## Medical Assistant Seminar

Prerequisite: MOA-115, MOA-130, MOA-140, MOA-142, MOA144, MOA-147, PHB-110
Corequisite: MOA-155
This course is designed as a capstone experience for students assigned to a medical assistant clinical rotation. Discussion topics include student reaction to supervised clinical experiences in an ambulatory care setting, professional issues, communication skills appropriate for a diverse patient population, and application of customer service skills. (1 contact hour)

## MRT-Health Information Technology

## MRT-105-(3)

## Beginning Medical Transcription

Prerequisite: MRT-110, minimum typing speed of 50 correct wpm, college-level proficiency in spelling, English grammar and usage
Corequisite: MRT-111 and MRT-130
Transcription of medical communications from voice dictation using computers and transcribers. Authentic physician-dictated reports are transcribed with emphasis on development of accuracy, speed, and medical knowledge for transcription of letters, chart notes, history and physical examination reports, consultations, emergency room reports, and discharge summaries. Other techniques developed include using reference material and other resources efficiently, editing and proofreading techniques, and understanding professional issues in medical transcription. Grammar and punctuation review as well as terminology and document format are emphasized. (5 contact hours)

## MRT-106-(3)

## Advanced Medical Transcription

Prerequisite: MRT-105
Advanced level transcription of inpatient and outpatient medical and surgical documents suitable for permanent records of patient care. Transcriptionists proofreading and editing dictation. Application of medico-legal principles of inpatient and outpatient clinical settings. Transcribing reports of diagnostic and therapeutic areas of medicine from both inpatient and outpatient health care services. Clarifying and editing dictation discrepancies. (5 contact hours)

## MRT-107-(2) <br> Medical Transcription Clinical Practicum

Prerequisite: MRT-106, MRT-125
This course is an internship experience concentrating on the development of advanced medical transcription skills on consultations, discharge summaries, history and physicals, special procedures, pathology reports and operative reports. In addition, students develop their skills using the web as a primary reference for medical/surgical terms. Students also expand their knowledge of advance word-processing skills and word expansion software. (6 contact hours)

## MRT-108-(4)

## Intro to Medical Coding Systems

Prerequisite: MRT-110 with a minimum grade of " $C$ "
Corequisite: Registration or credit in MRT-130
This course is an introduction to medical coding guidelines and principles. The intent is to develop an understanding of coding and classification systems in order to assign a valid diagnosis and procedure codes, and CPT/HCPCS procedure codes. ( 6 contact hours)

## MRT-110-(3)

## Medical Terminology

Introduces various medical terms used in the health field. Emphasis is on analysis and building of medical terms using Greek and Latin prefixes, roots and suffixes. Abbreviations, eponyms, anatomical terms, and medical vocabulary that is not based on word elements are also reviewed. Definitions, spelling and pronunciation of medical terms are stressed. (3 contact hours)

## MRT-111-(4)

## Health Information Management

This course includes an orientation to the health care delivery system, accreditation standards, the health information management department, health data content and structure as well as application of techniques to assure adequate documentation of health care in acute care and ambulatory settings in both a manual and electronic record format. It also focuses on legal and ethical issues applicable to health information, including confidentiality and release of information. (5 contact hours)

## MRT-112-(4)

## Clinical Classification Systems

Prerequisite: BIO-115, MRT-108 and MRT-111
This course emphasizes advanced theory in coding and classification systems. The focus is on the development of skills needed for assignment of valid diagnostic and procedure codes using ICD-9-CM and HCPCS/CPT coding systems. It includes the validation of coded clinical information, and the study of the uses of coded data and health information in reimbursement and payment systems appropriate to all healthcare settings and managed care. (6 contact hours)

MRT-113-(2)

## Coding Specialist Clinical Practicum I

Prerequisite: MRT-112 with a minimum grade of "C", MRT-125 and MRT-212
A web-assisted course that concentrates on developing and reinforcement of advanced ICD-9-CM and CPT coding skills. This class is a continuation of MRT-112, dealing with advanced principles of coding using ICD-9-CM and HCPCS/CPT. Students will gain experience with coding health records from a variety of settings as well as review topics related to compliance, medical necessity, encoding, DRG and APC grouping, chargemaster, and case mix analysis. (6 contact hours)

## MRT-114-(3)

## Health Care Computer Applications

Prerequisite: MRT-108, MRT-125
Corequisite: Registration or credit in MRT-112
This course is designed to introduce students to computer systems in health care with particular emphasis on the computerized medical record, health information management applications, medical transcription using a word processing system, database management via UHDDS abstracting systems focusing on data collection techniques and report generation. To correspond with the current emphasis on ambulatory record keeping, one unit will be dedicated to the use of computers in the medical office. Fee is required. (4 contact hours)

## MRT-115-(2)

## Clinical Practicum I

Prerequisite: MRT-112 and MRT-114
Students are assigned to health information management and adjunct departments of various healthcare facilities for supervised clinical experiences and application of health information management theory, release of information and medical transcription. Emphasis is on the mastery of entry-level competencies. Fee is required. (6 contact hours)

## MRT-116-(2)

## Clinical Practicum II

Prerequisite: MRT-112, MRT-115, MRT-119 or consent of instructor
Students are assigned to Moraine Valley's health information technology and computer laboratories for supervised learning experiences. Emphasis is on mastery of entry-level competencies related to prospective payment system, inpatient ICD-9-CM coding, ambulatory ICD-9-CM coding, and health record computer applications involving health data abstracting, DRG assignment, health data presentation, encoding, and medical office management systems. (6 contact hours)

## MRT-117-(2)

## Introduction to ICD-9-CM

Prerequisite: MRT-110, MRT-111 and MRT-130
Corequisite: Registration in MRT-118
This course is an introduction to ICD-9-CM coding principles. The intent is to develop an understanding of coding and classification systems in order to assign valid diagnostic or procedure codes. (2 contact hours)

## MRT-118-(2)

## Introduction to CPT

Prerequisite: MRT-110, MRT-111 and MRT-130
Corequisite: Registration in MRT-117
This course is an introduction to CPT coding principles. The intent is to develop an understanding of coding and classification systems in order to assign valid CPT/HCPCS procedure codes. (2 contact hours)

## MRT-119-(1)

## Insurance Reimbursement Procedures

Prerequisite: MRT-110 with a minimum grade of " C " Corequisite: MRT-108 and MRT-130
This introductory medical insurance course provides students with the basics of filing medical insurance claims in a manual and electronic format. Emphasis is on completion of insurance forms, identification of common types of medical insurance, manual and electronic claims processing, and reimbursement follow-up. Course also focuses on accurate billing through coding, chargemaster, claims management, and bill reconciliation processes. (3 contact hours)

## MRT-120-(3)

## Body Structure and Pharmacology

Prerequisite: MRT-110
This course is a continuation of medical terminology with a focus on introduction to basic pathology and pharmacology terminology. The intent is to develop a knowledge base through the study of the structure and function of the human body, pathophysiology, diagnostic and treatment modalities, and pharmacy therapy available for clinical management of patient care. Emphasis is placed on the establishment of a knowledge base to facilitate development of coding and transcription skills. (3 contact hours)

## MRT-125-(4)

## Pathophysiology and Pharmacology

Prerequisite: MRT 110 with a minimum grade of " C "
This course focuses on the description of conditions and diseases of all human body systems including etiology, signs, and symptoms, methods of diagnosis, and treatment. Students will attain knowledge of basic pharmacology with emphasis on the understanding of the action of drugs such as absorption, distribution, metabolism and excretion of drugs by the body. Additional study is placed on drug classifications, the most commonly prescribed drugs and drug formulary. (5 contact hours).

## MRT-130-(1)

## Computers in Allied Health

Introduces computer technology to health care students by presenting fundamental computer terminology while stressing applications that are important to the delivery of health care. Emphasizes the PC and, more specifically, word processing, Internet, spreadsheet and database management. Fee is required. ( 1.5 contact hours)

## MRT-210-(4)

## Introduction to Pathophysiology

Prerequisite: BIO-115, MRT-112, MRT-120
This course is an introduction to the general principles of disease with the emphasis on the etiology, symptoms, signs, diagnostic finding, and treatment. Laboratory assignments build a clinical knowledge base that will continue to expand as the students learn from case studies, quality studies and related exercises. (5 contact hours)

## MRT-211-(4)

## Health Statistics and Data Analysis

Prerequisite: MRT 114 AND MTH-109
This course focuses on healthcare data analysis. It includes definitions and formulas for computing hospital and public health statistics, data collection, report generation, statistical quality, HIM performance indicators, and control, and data display. In addition, research and continuous quality improvement study methodologies are introduced and applied to health information data quality projects. (5 contact hours)

## MRT-212-(3)

## Medical Reimbursement Systems

Corequisite: Registration of credit in MRT-112 and MRT-119
A continuation of ICD-9-CM and CPT theory with emphasis on prospective payment system regulations, ambulatory care reimbursement issues, case mix analysis, and the impact of prospective payment on health care facilities. Other units of instruction include hospital and medical staff organization, managed care, accrediting, approving, licensing, and certifying agencies. (3 contact hours)

## MRT-213-(3)

## Supervisory Techniques

Prerequisite: MRT-115 and MRT-211
Includes a study of the theory and practice essential to the efficient operation of a health information management department within an acute, ambulatory or long-term care setting. Emphasis is placed on application to enable students to easily transfer knowledge directly to the workplace. Students will complete organizational charts, policies, procedures, job descriptions, departmental layouts, schedules, budgets, performance evaluations, productivity monitors, and other activities normally completed at the supervisory level. (3 contact hours)

## MRT-215-(2)

## Clinical Practicum III

Prerequisite: MRT-115
Corequisite: Registration or credit in MRT-116
Students are assigned to health information management and adjunct departments of affiliated health care facilities and to the Moraine Valley health information technology and computer laboratories for supervised clinical experiences and application of health information management theory. Emphasis is on mastery of entry-level competencies related to health information systems, health records, health statistics, health data presentation, classification and indexing systems, and practice management software. (6 contact hours)

## MRT-216-(5)

## Clinical Practicum IV

Prerequisite: MRT-211 and MRT-215
Corequisite: Registration or credit in MRT-213 and MRT-218
Students are assigned to health information management and adjunct departments of affiliated health care facilities and to the Moraine Valley health information technology and computer laboratories for supervised clinical experiences and application of health information management theory. Emphasis is on mastery of entry-level competencies related to quality assurance systems, data quality in ICD-9-CM and CPT coding, cancer registries, ambulatory health record systems, and health records in longterm care and psychiatric facilities. (15 contact hours)

## MRT-218-(2)

## Quality Management

Prerequisite: MRT-211
This course focuses on quality management. It includes the five basic components of a hospitalwide quality program: quality assurance, quality improvement, utilization management, risk management, and credentialing. Quality applications are integrated throughout the course, stressing the importance of application, including data collection, statistical quality control, data display, and assessment. (2 contact hours)

## MTH—Mathematics

## MTH-060-(1)

## Whole Numbers and Fractions

Includes basic operations with whole numbers and fractions. Introduces conversion of measurement units. Credit hours for this course can be applied to full- or part-time status, but will not count toward graduation credits unless specified in your certificate or degree program. (1 contact hour)

## MTH-070-(1)

## Decimals and Percents

## Prerequisite: MTH-060

Includes operations with decimals, conversion of fractions to decimals and percents, decimals to fractions and percents, percents to decimals and fractions, and solutions of basic problems involving percents. Credit hours for this course can be applied to full- or part-time status, but will not count toward graduation credits unless specified in your certificate or degree program. (1 contact hour)

## MTH-080-(1)

## Pre-Algebra Topics

Prerequisite: MTH-070
Review of signed numbers, linear equations, and ratios and proportions. Credit hours for this course can be applied to full- or parttime status, but will not count toward graduation credits unless specified in your certificate or degree program. (1 contact hour)

## MTH-090-(3)

## Developmental Math

Emphasizes fractions, decimals and percents. Signed numbers, the number line and order of operations are covered. Credit hours for this course can be applied to full- or part-time status, but will not count toward graduation credits unless specified in your certificate or degree program. (3 contact hours)

## MTH-095-(4)

## Beginning Algebra

Prerequisite: MTH-090 with a grade of " C " or better, or requisite score on math placement test
Topics to be covered include order operations, the solution of linear equations and inequations in one variable, the rectangular coordinate system, systems of equations, operations with polynomials, factoring and topics in geometry. Credit hours for this course can be applied to full- or part-time status, but will not count toward graduation credits unless specified in your certificate or degree program. (4 contact hours)

## MTH-097-(3)

## Geometry

Prerequisite: MTH-095 with a grade of " C " or better, or requisite score on math placement test
Covers axioms, theorems, points, lines, angles, angular and linear measure, coordinate geometry, two-dimensional geometric figures, and basic proofs. Credit hours for this course can be applied to full- or part-time status, but will not count toward graduation credits unless specified in your certificate or degree program. (3 contact hours)

## MTH-098-(4)

## Intermediate Algebra

Prerequisite: 2 years of high school math, including algebra, and appropriate placement test score or MTH-095 with a grade of "C" or better
Topics include factoring, operations with algebraic and rational expressions, equations, exponents and radicals, radical equations, functions and graphing, absolute value, one- and twodimensional linear inequalities, and quadratic equations. Credit for this course can be applied to full- or part-time status but will not count toward graduation unless specified in your certificate or degree program. MTH-098 was formerly MTH-101. Previous credits or grade earned in MTH-101 will not apply if student completes MTH-098. (4 contact hours)

MTH-102-(3)
Mathematics for Paraprofessionals
Prerequisite: MTH-090 with a grade of "C" or better or appropriate placement test score
Designed for the elementary school paraprofessional, the topics include problem solving, sets of numbers, number theory, statistics, probability, geometric figures, measurement, and geometric motion. The course will satisfy the core requirement for the AAS or Certificate program for Elementary paraprofessionals. Students seeking general education math credit are advised to register for MTH-121 and MTH-122 if they are pursuing a teaching degree. (3 contact hours)

## MTH-109-(2)

## Math for Allied Health

Prerequisite: 1 year of high school algebra and appropriate placement test score or MTH-095 with a grade of "C" or better
Covers the common math requirements for students in allied health science. Includes measurement systems, ratios and proportion, and elements of statistics, with an emphasis on problem solving in the health science fields. (2 contact hours)

## MTH-120-(3)

## General Education Mathematics

Prerequisite: 2 years of high school math including algebra and geometry, and appropriate placement test score, or MTH-097 and MTH-098 (or equivalent) with a grade of " C " or better This survey course is designed to help students develop competency in problem analysis and problem solving, multistep decision making, and quantitative reasoning. The course focuses on mathematical reasoning, mathematical modeling, and the solution of real-life problems involving mathematics. Analysis of mathematical models and written laboratory projects are integral parts of this course. Hand-held calculators and computers will be used as tools in decision making. The course covers three or four of the following topics in depth: counting techniques and probability, game theory, graph theory, linear programming, logic/set theory, mathematics of finance, and statistics. This course is not intended as a prerequisite for any other course in math and is not intended for engineering or science majors. Its primary goal is to help the general liberal arts student gain the level of numerical literacy and problem-solving skill necessary to become an educated citizen. (3 contact hours) IAI: M1 904

MTH-121-(3)

## Math for Teachers I

Prerequisite: 2 years of high school math, including algebra and geometry, and appropriate placement test score, or MTH-097 and MTH-098 (or equivalent) with a grade of "C" or better Designed for elementary education majors, topics include problem solving, number theory, numeration systems, mental, electronic and written computation of whole numbers, integers, fractions, decimals and percents. This course will satisfy the mathematics general education requirement for elementary education majors if MTH-122 has also been completed. Students seeking typical general education math credit at this level are advised to register for MTH-120 or MTH-139. (3 contact hours)

## MTH-122-(3)

## Math for Teachers II

Prerequisite: MTH-121 with a grade of "C" or better or consent of instructor
This course is a continuation of MTH-121. It is designed and intended for elementary education majors. Topics include real numbers, informal geometry, measurement, probability, statistics, and problem solving. This course will satisfy the mathematics general education requirement for elementary education majors if MTH-121 has also been completed. (3 contact hours) IAI: M1 903

MTH-133-(2)
Math for Industry
Prerequisite: 2 years of high school math including algebra and appropriate placement test score or MTH-095 with a grade of "C" or better
The purpose of this course is to coordinate and integrate the necessary math skills with concepts presented in Electricity and Electronics. The objective is to keep pace with ELT-101, covering the same topics, but emphasizing the mathematics involved. (2 contact hours)

## MTH-135-(5)

## Technical Mathematics

Prerequisite: 2 years of high school math including algebra and appropriate placement test score or MTH-095 with a grade of $C$ or better
Topics in algebra with physical applications. Recommended for students in the Electronics, and Design Drafting programs. (5 contact hours)

## MTH-139-(4)

## Probability and Statistics

Prerequisite: 2 years of high school math, including algebra and geometry, and appropriate placement test score or MTH-097 and MTH-098 (or equivalent) with a grade of " C " or better
Topics include gathering, organizing, presenting, and interpreting data; variability, uncertainty and hypothesis testing; methods of drawing inferences, making decisions from observed data, and probabilistic models. Students will be introduced to a statistical computer software package to help analyze and interpret data. Note: MTH-139 and MTH-212 cover the same basic core of statistics; however, MTH-212 moves at a faster pace, is more oriented toward business examples, and explores hypothesis tests to a greater depth. No more than four credit hours will be granted to students taking MTH-139 and MTH-212. Fee is required. (4 contact hours) IAI: M1 902

## MTH-141-(4)

## College Algebra (Functions)

Prerequisite: 3 years of high school math including advanced algebra and appropriate placement test score or MTH-098 with a grade of "C" or better
This functions approach to college algebra includes polynomial, rational, radical, exponential, and logarithmic functions. Effective and efficient use of graphing calculators will be an integral part of the course. (4 contact hours)

## MTH-142-(2)

## Trigonometric Functions

Prerequisite: 3 years of high school math including advanced algebra and appropriate placement test score, or registration or credit in MTH-135 or MTH-141
Trigonometric functions, their inverse functions, graphs, the unit circle, right triangle trigonometry, basic identities, trigonometric equations, and polar coordinates are studied. (2 contact hours)

## MTH-143-(4)

## Finite Mathematics

Prerequisite: 3 1/2 years of high school math including pre-calculus or advanced algebra, and appropriate placement test score, or MTH-141 with a grade of "C" or better, or consent of instructor
Business, economic, social, and biological problems are described and solved mathematically. Sets, probability, matrix algebra, linear programming, systems of equations and inequalities, exponential growth and annuities, and stochastic processes are considered. (4 contact hours) IAI: M1 906

## MTH-145-(4)

## Calculus for Business and Social Science

Prerequisite: 3 1/2 years of high school math including pre-calculus or advanced algebra, and appropriate placement test score, or MTH-141 with a grade of "C" or better
Introduces calculus through functions, differentiation and integration with applications to the business and social science fields. Note: No more than five hours of credit will be granted to students taking both MTH-145 and MTH-150. (4 contact hours) IAI: M1 900-B

## MTH-150-(5)

## Calculus I/Analytic Geometry

Prerequisite: Four years of high school math including pre-calculus or advanced algebra with trigonometry and appropriate placement test score, or both MTH-141 and MTH-142 with grades of " C " or better NOTE: It is possible, but not advisable, for students to register for both MTH-142 and MTH-150 in the same semester.
Topics include limits, continuity, the derivative, application of differentiation, curve sketching, anti-differentiation, and the definite integral. These topics are applied to polynomial, radical, rational, logarithmic, exponential, trigonometric, and hyperbolic functions. Note: No more than five hours of credit will be granted to students taking both MTH-145 and MTH-150. Note: It is possible, but not advisable, for students to register for both MTH-142 and MTH-150 in the same semester. (5 contact hours) IAI: M1 900-1

## MTH-151-(5)

## Calculus II/Analytic Geometry

Prerequisite: MTH-150 with a grade of "C" or better
A continuation of MTH-150. Topics include applications of the integral, techniques of integration, indeterminate forms, improper integrals, infinite series, conic sections, polar coordinates, and parametric equations. (5 contact hours) IAI: M1900-2

## MTH-152-(4)

## Calculus III/Analytic Geometry

Prerequisite: MTH-151 with a grade of "C" or better A continuation of MTH-151. Topics include vectors, vector calculus, vector fields, solid analytic geometry, functions of several variables, partial derivatives, multiple integration, and applications. (4 contact hours) IAI: M1 900-3

## MTH-201-(3)

## Differential Equations

Prerequisite: MTH-151 with a grade of " C " or better or consent of instructor
Introduces ordinary differential equations, methods of solution and applications. Topics include first order differential equations, linear differential equations, systems of linear differential equations, and solutions by Laplace transforms. (3 contact hours)
MTH-210-(3)

## Linear Algebra

Prerequisite: MTH-151 with a grade of "C" or better or consent of instructor
Topics include vectors, vector spaces, matrices, determinants matrix algebra, linear independence, linear transformations, eigenvalues, eigenvectors, and applications of matrices and transformations. Approximately one third of the course involves the concept of mathematical proofs as applied to linear algebra. (3 contact hours)

## MTH-212-(4)

## Statistics for Business

Prerequisite: $31 / 2$ years of high school math including pre-calculus or advanced algebra, and appropriate placement test score, or MTH-141 with a grade of $C$ or better
Covers descriptive statistics, data presentation, analysis, and interpretation; sampling techniques, hypothesis testing for single and multiple samples; analysis of variance; selection of appropriate parametric and nonparametric statistical tests; correlation and regression; and multistep decision-making techniques in a business environment. Students use a statistical computer software package to analyze and interpret data. Note: MTH-139 and MTH-212 cover the same basic core of statistics; however, MTH-212 moves at a faster pace, is more oriented toward business examples, and explores hypothesis tests to a greater depth. No more than four credit hours will be granted to students taking MTH-139 and MTH-212. Fee is required (4 contact hours) IAI: M1 902

## MTH-215-(3)

## Discrete Mathematics

Prerequisite: MTH-141 with a grade of " $C$ " or better, or 3-1/2 years of high school math including pre-calculus or advanced algebra and appropriate placement test score, or consent of instructor.
Introduction to analysis of finite collections and mathematical foundations of sequential machines, computer system design, data structures and algorithms. Course material includes sets, counting, recursion, graph theory, trees, Boolean algebra, automata, and formal grammar and languages. (3 contact hours)

## MUS-Music

## MUS-103-(3)

## Basic Musicianship

The study of music theory to improve music performance and listening skills. Includes major and minor scales, intervals, study of rhythm, triads and their inversions, dominant seventh chords, and the concept of tonality. Practical exercises in the development of music dictation skills as well as beginning music composition are also included. This course is designed for students with previous musical training and experience. (4 contact hours)

## MUS-104-(3)

## Music Theory I

Prerequisite: MUS-103 or consent of instructor
Corequisite: Registration or credit in MUS-115
Covers four-part harmony in close and open structure, using major, minor, diminished and dominant seventh triads in root position and inversion. Practical exercises in music dictation, keyboard and sight-singing skills, as well as elementary music composition and analysis are also included. (5 contact hours)

## MUS-105-(3)

## Music Theory II

Prerequisite: MUS-104 and MUS-115
Corequisite: Registration or credit in MUS-116
The study of four-part harmony according to established principles of harmonic progression. More advanced exercises in music dictation, keyboard and sight-singing skills, analysis and music composition. (5 contact hours)

## MUS-106-(3)

## Introduction to American Music

A survey of American music to include classical, country, jazz, blues, rock, and other forms of expression. Aside from musical considerations, attention will be given to past and present sociocultural conditions influencing American musical traditions and styles. This is a general education course and does not require previous musical experience. (3 contact hours) IAI: F1 904

## MUS-107-(3)

## Music Appreciation

The study of classical music to provide basic listening skills, the ability to discuss music intelligently, and an acquaintance with the basic genres available to the listening public. This course is designed as a general education offering and does not require previous musical experience. (3 contact hours) IAI: F1 900
MUS-109, 110, 209, 210-(1)

## Percussion Ensemble I-IV

This course provides ensemble experience for percussionists dedicated to the performance and exploration of percussion literature including ragtime, classical, popular, Caribbean/ Latin, chamber and jazz. The ensemble will perform several concerts each semester both on and off campus. First-time students should enroll in MUS-109 and enroll in the next numbered course for each subsequent semester. (2 contact hours) IAI: MUS 908

MUS-115-(1)
Class Piano I
For first-year pianists who wish to learn piano primarily for personal enrichment. Stresses rhythm, melody, reading, harmonization, and theoretical knowledge, along with beginning solo and ensemble repertoire. Must own or have access to keyboard/piano. Fee is required. (2 contact hours)

## MUS-116-(1)

Class Piano II
Prerequisite: MUS-115 or MUS-103
A continuation of MUS-115 for students who wish to learn piano primarily for personal enrichment. Fee is required. Must own or have access to keyboard/piano. (2 contact hours)

## MUS-117-(1)

## Class Voice

For singers who wish to learn how to sing properly, primarily for personal enrichment. Stresses proper breathing and vocal technique, elementary musicianship, as well as beginning song repertoire from folk music, musical theater and art songs. Fee is required. (2 contact hours)
MUS-119-(1)
Class Guitar
Prerequisite: Must own guitar
For those who wish to learn how to play guitar primarily for personal enrichment. Stresses learning basic chords, elementary musicianship, as well as beginning strumming and fingerpicking techniques. Fee is required. Must own or have access to guitar. (2 contact hours)
MUS-121, 122, 221, 222-(1)

## Applied Voice Non-Major I-IV

Students will receive one 30-minute individual lesson per week for 16 weeks. Five additional hours of individual practice will be assigned for each week. The level of instruction is intended for students studying music for personal enrichment. This course is not intended for students planning to pursue a music degree. The course provides individual instruction in Voice music skills. The curriculum includes the study of technique and music repertoire appropriate to the skill level and interest of the individual student. First-time students should enroll in MUS-121 and enroll in the next numbered course for each subsequent semester. Additional fee is required. ( 0.5 contact hours)
MUS-125, 126, 225, 226-(2)

## Applied Voice Major I-IV

Students will receive one 60-minute individual lesson per week for 16 weeks. Ten additional hours of individual practice will be assigned for each week. The level of instruction is intended for students planning to pursue a music degree. The course provides individual instruction in Voice music skills. The curriculum includes the study of advanced techniques, stylistic interpretation and performance of solo literature. One recital and jury performance are required. First-time students should enroll in MUS-125 and enroll in the next numbered course for each subsequent semester. Additional fee is required. (1 contact hour)

## MUS-129, 130, 229, 230-(1) <br> Applied Strings Non-Major I-IV

Students will receive one 30-minute individual lesson per week for 16 weeks. Five additional hours of individual practice will be assigned for each week. The level of instruction is intended for students studying music for personal enrichment. This course is not intended for students planning to pursue a music degree. The course provides individual instruction in Strings music skills. The curriculum includes the study of technique and music repertoire appropriate to the skill level and interest of the individual student. First-time students should enroll in MUS-129 and enroll in the next numbered course for each subsequent semester. Additional fee is required. ( 0.5 contact hours)

MUS-131, 132, 231, 232-(1)

## Applied Piano Non-Major I-IV

Students will receive one 30-minute individual lesson per week for 16 weeks. Five additional hours of individual practice will be assigned for each week. The level of instruction is intended for students studying music for personal enrichment. This course is not intended for students planning to pursue a music degree. The course provides individual instruction in Piano music skills. The curriculum includes the study of technique and music repertoire appropriate to the skill level and interest of the individual student. First-time students should enroll in MUS-131 and enroll in the next numbered course for each subsequent semester. Additional fee is required. ( 0.5 contact hours)

MUS-135, 136, 235, 236-(2)

## Applied Piano Major I-IV

Students will receive one 60-minute individual lesson per week for 16 weeks. Ten additional hours of individual practice will be assigned for each week. The level of instruction is intended for students planning to pursue a music degree. The course provides individual instruction in Piano music skills. The curriculum includes the study of advanced techniques, stylistic interpretation and performance of solo literature. One recital and jury performance are required. First-time students should enroll in MUS-135 and enroll in the next numbered course for each subsequent semester. Additional fee is required. (1 contact hour)

MUS-139, 140, 239, 240—(2)
Applied Strings Major I-IV
Students will receive one 60-minute individual lesson per week for 16 weeks. Ten additional hours of individual practice will be assigned for each week. The level of instruction is intended for students planning to pursue a music degree. The course provides individual instruction in Strings music skills. The curriculum includes the study of advanced techniques, stylistic interpretation and performance of solo literature. One recital and jury performance are required. irst-time students should enroll in MUS-139 and enroll in the next numbered course for each subsequent semester. Additional fee is required. (1 contact hour)

MUS-141, 142, 241, 242-(1) Chamber Singers I-IV
This course provides chamber ensemble experience for vocalists dedicated to the performance and exploration of a wide variety of contemporary singing styles. The ensemble will perform several concerts each semester both on and off campus. Additional fee is required. First-time students should enroll in MUS-141 and enroll in the next numbered course for each subsequent semester. This course may also be taken for noncredit. (3 contact hours) IAI: MUS 908

MUS-145, 146, 245, 246-(1)

## Chorale I-IV

This course provides large ensemble experience for vocalists dedicated to the performance and exploration of choral literature, including Broadway, operatic, patriotic, and holiday selections. The ensemble will perform several concerts each semester both on and off campus. Additional course fee is required. Firsttime students should enroll in MUS-145 and enroll in the next numbered course for each subsequent semester. This course may also be taken for noncredit. (2 contact hours) IAI: MUS 908

## MUS-151, 152, 251, 252-(1)

## Jazz Ensemble I-IV

This course provides ensemble experience for saxophonists, trombonists, trumpet players, and rhythm section instrumentalists (guitar, piano, bass, percussion) dedicated to the performance and exploration of big band and jazz literature from the 1930s to the present. Repertoire emphasizes study and performance of masterworks by significant historical and contemporary jazz composers. The ensemble will perform several concerts each semester both on and off campus. Additional course fee is required. First-time students should enroll in MUS-151 and enroll in the next numbered course for each subsequent semester. This course may also be taken for noncredit. (3 contact hours) IAI: MUS 908

MUS-161, 162, 261, 262-(1)

## Instrumental Chamber Ensemble

This course provides chamber ensemble experience for instrumentalists dedicated to the performance and exploration of a wide variety of musical literature. This ensemble will perform several public performances, recitals and concerts each semester. Additional course fee is required. First-time students should enroll in MUS-161 and enroll in the next numbered course for each subsequent semester. This course may also be taken for noncredit. (2 contact hours) IAI: MUS 908

MUS-169, 170, 269, 270-(1)

## Applied Percussion Non-Major I-IV

Students will receive one 30-minute individual lesson per week for 16 weeks. Five additional hours of individual practice will be assigned for each week. The level of instruction is intended for students studying music for personal enrichment. This course is not intended for students planning to pursue a music degree. The course provides individual instruction in Percussion music skills. The curriculum includes the study of technique and music repertoire appropriate to the skill level and interest of the individual student. First-time students should enroll in MUS-169 and enroll in the next numbered course for each subsequent semester. Additional fee is required. ( 0.5 contact hours)

## MUS-175, 176, 275, 276-(1) <br> Concert Band I-IV

This course provides ensemble experience for wind players and percussionists dedicated to the performance and exploration of wind band literature including new music, classical transcriptions, marches, movie scores, Broadway and popular. The ensemble will perform several concerts each semester both on and off campus. Additional course fee is required. First-time students should enroll in MUS-175 and enroll in the next numbered course for each subsequent semester. This course may also be taken for noncredit. (2 contact hours) IAI: MUS 908

MUS-179, 180, 279, 280-(2)
Applied Percussion Major I-IV
Students will receive one 60-minute individual lesson per week for 16 weeks. Ten additional hours of individual practice will be assigned for each week. The level of instruction is intended for students planning to pursue a music degree. The course provides individual instruction in Percussion music skills. The curriculum includes the study of advanced techniques, stylistic interpretation and performance of solo literature. One recital and jury performance are required. First-time students should enroll in MUS-179 and enroll in the next numbered course for each subsequent semester. Additional fee is required. (1 contact hour)

MUS-181, 182, 281, 282-(1)

## Applied Guitar Non-Major I-IV

Students will receive one 30-minute individual lesson per week for 16 weeks. Five additional hours of individual practice will be assigned for each week. The level of instruction is intended for students studying music for personal enrichment. This course is not intended for students planning to pursue a music degree. The course provides individual instruction in Guitar music skills. The curriculum includes the study of technique and music repertoire appropriate to the skill level and interest of the individual student. First-time students should enroll in MUS-181 and enroll in the next numbered course for each subsequent semester. Additional fee is required. ( 0.5 contact hours)

MUS-185, 186, 285, 286-(2)

## Applied Guitar Major I-IV

Students will receive one 60-minute individual lesson per week for 16 weeks. Ten additional hours of individual practice will be assigned for each week. The level of instruction is intended for students planning to pursue a music degree. The course provides individual instruction in Guitar music skills. The curriculum includes the study of advanced techniques, stylistic interpretation and performance of solo literature. One recital and jury performance are required. First-time students should enroll in MUS-185 and enroll in the next numbered course for each subsequent semester. Additional fee is required. (1 contact hour)
MUS-191, 192, 291, 292-(1)

## Applied Brasswind Non-Major I-IV

Students will receive one 30-minute individual lesson per week for 16 weeks. Five additional hours of individual practice will be assigned for each week. The level of instruction is intended for students studying music for personal enrichment. This course is not intended for students planning to pursue a music degree. The course provides individual instruction in Brasswind music
skills. The curriculum includes the study of technique and music repertoire appropriate to the skill level and interest of the individual student. First-time students should enroll in MUS-191 and enroll in the next numbered course for each subsequent semester. Additional fee is required. ( 0.5 contact hours)

## MUS-193, 194, 293, 294-(2)

Applied Brasswind Major I-IV
Students will receive one 60-minute individual lesson per week for 16 weeks. Ten additional hours of individual practice will be assigned for each week. The level of instruction is intended for students planning to pursue a music degree. The course provides individual instruction in Brasswind music skills. The curriculum includes the study of advanced techniques, stylistic interpretation and performance of solo literature. One recital and jury performance are required. First-time students should enroll in MUS-193 and enroll in the next numbered course for each subsequent semester. Additional fee is required. (1 contact hour)

MUS-195, 196, 295, 296-(1)
Applied Woodwind Non-Major I-IV
Students will receive one 30-minute individual lesson per week for 16 weeks. Five additional hours of individual practice will be assigned for each week. The level of instruction is intended for students studying music for personal enrichment. This course is not intended for students planning to pursue a music degree. The course provides individual instruction in Woodwind music skills. The curriculum includes the study of technique and music repertoire appropriate to the skill level and interest of the individual student. First-time students should enroll in MUS-195 and enroll in the next numbered course for each subsequent semester. Additional fee is required. ( 0.5 contact hours)

## MUS-197, 198, 297, 298-(2)

## Applied Woodwind Major I-IV

Students will receive one 60-minute individual lesson per week for 16 weeks. Ten additional hours of individual practice will be assigned for each week. The level of instruction is intended for students planning to pursue a music degree. The course provides individual instruction in Woodwind music skills. The curriculum includes the study of advanced techniques, stylistic interpretation and performance of solo literature. One recital and jury performance are required. First-time students should enroll in MUS-197 and enroll in the next numbered course for each subsequent semester. Additional fee is required. (1 contact hour)
MUS-204-(3)

## Music Theory III

Prerequisites: MUS-104 and MUS-105
This course is a continuation of the study of diatonic and chromatic harmony along with form and analysis. Harmonic vocabulary includes secondary dominants, borrowed chords, Neapolitan chords, and augmented sixth chords. The course includes advanced exercises in music dictation, keyboard, sight-singing skills, analysis, and music composition. (5 contact hours)

## MUS-205-(3)

Music Theory IV
Prerequisite: MUS-204
The culmination of the four-semester freshman/sophomore theory sequence, this course builds upon the student's knowledge of chromatic harmony and composition along with form and analysis, and 20th century compositional methods. Harmonic vocabulary includes ninth, eleventh, and thirteenth chords, chromatic modulation, modal harmonies, non-tertian harmonies, atonality, polymeter, and twelve-tone systems. (5 contact hours)

## MUS-206-(3)

## Music History and Literature I

Survey of styles, periods, and personalities in music literature. Includes historical development; relationship to other fine arts; study of concepts, idioms; and aesthetics in music literature; comparison of styles; variety of genres; stylistic traits of selected eras; and survey of literature for performance by musical instruments, keyboard, and voice. The first semester includes material from antiquity to 1750 . Background in music is suggested, but not required. (3 contact hours)

## MUS-207-(3)

## Music History and Literature II

Survey of styles, periods, and personalities in music literature. Includes historical development; relationship to other fine arts; study of concepts, idioms; and aesthetics in music literature; comparison of styles; variety of genres; stylistic traits of selected eras; and survey of literature for performance by musical instruments, keyboard, and voice. The second semester includes material from 1750 to the present. Background in music is suggested, but not required. (3 contact hours)

## NAT—Natural Science

## NAT-111-(4)

## Environmental Science I

This interdisciplinary analysis of man's environment stresses the physical, biological and ecological aspects. Man's relationship to the natural environment and responsible stewardship are emphasized. The units of study are water, wildlife, population/resources, and geology. Fee is required. (6 contact hours) |AI: L1 905L

## NAT-112-(4)

## Environmental Science II

An interdisciplinary analysis of man's environment which stresses physical, biological and ecological aspects. Man's relationship to the natural environment and responsible stewardship are emphasized. The units of study are vegetation, soils, weather/climate, and urban land use. Fee is required. (6 contact hours) IAI: L1 905L

## NAT-201-(4)

## Environmental Problems

Prerequisite: NAT-111 and NAT-112 or consent of instructor Study modules on resource problems, chemicals and the environment, waste disposal, and land use. Each module equals one
credit. Deals with political aspects and environmental philosophy of selected problems. Outdoor activities are scheduled. Fee is required. (variable contact hours)

## NUR—Nursing

## NUR-140-(4)

## Nursing Concepts I

Prerequisite: BIO-180 with grade of C or better; Approved admission to the Nursing Program
Corequisites: Enrollment or credit with a grade of "C" or better in BIO-181, HSC-120 and NUR 150
Course discussions focus on the fundamentals of basic safe and effective nursing care of the individual, incorporating IOM standards and the QSEN standards. Learners will be introduced to the Nursing Program philosophy, organizing framework and the nursing process. The science of nutrition will be an integral part of the course. Attention will be given to healthy, stable, and commonly occurring chronic and restorative conditions related to the human needs of health maintenance, safety and protection, nutrition, elimination/exchange, activity, rest, comfort and cognition/perception. (4 contact hours)

## NUR-141-(2)

## Nursing Concepts II

Prerequisites: BIO-181, HSC-120, NUR-151, NUR-160
Corequisites: BIO-119, HSC-140, NUR-152, NUR-161, and PSY-104
Course discussions focus on continued discussions of safe and effective care of the individual incorporating IOM standards, QSEN competencies and the Nursing Process. Attention will be given to healthy, chronic and restorative conditions related to the human needs of health maintenance, nutrition, elimination, activity, rest, comfort, and sexuality/reproduction. (2 contact hours)
NUR-142-(2)

## Nursing Concepts III

Prerequisites: NUR-141, NUR-152
Corequisites: BIO-119, HSC-140, NUR-161, PSY-104
Course discussions focus on continued discussion of the safe and effective care of the individual incorporating IOM standards, QSEN competencies and the Nursing Process. Attention will be given to healthy, chronic and restorative conditions related to the human needs of self-perception, role relationships, coping/stress tolerance, and values/beliefs. (2 contact hours)

NUR-150-(2)

## Nursing Arts I

Prerequisite: BIO-180 with grade of "C" or better, and approved admission to the Nursing Program
Corequisites: Enrollment or credit with a grade of "C" or better in BIO-181, HSC-120, NUR-140
Lab experiences focus on the skills performed by the LPN according to IDFPR Administrative Code. Specific attention is on therapeutic communication and safety in relation to ergonomics, isolation, restraints, medical asepsis, specimen collection and
the administration of medications. Note: The competencies associated with the Certified Nursing Assistant program are not addressed in this course. Learners are held responsible to demonstrate those competencies as a part of the program admission requirements regarding current C.N.A. registration.
(4 contact hours)
NUR-151-(2)

## Nursing Arts II

Prerequisite: BIO-180 with a grade of "C" or better; approved admission to the Nursing Program, NUR-140, NUR-150
Corequisites: Enrollment or credit with a grade of " $C$ " or better in BIO-181, HSC-120, NUR-160
Lab experiences focus on health and physical assessment in relation to normal and common health alterations across the lifespan. Organization of the course will be based on functional health patterns. (4 contact hours)
NUR-152-(1)

## Nursing Arts III

Prerequisites: BIO-181, HSC-120, NUR-151, NUR 160
Corequisites: BIO-119, HSC-140, NUR-141, PSY-104
Lab experiences focus on the skills performed by the LPN according to IDFPR Administrative Code. The course compliments Nursing Arts I. Specific attention is given to the skills of surgical asepsis including Foley insertion, bladder irrigation, intravenous care, maintenance and medication administration, central line care, hyperalimentation and blood transfusion; respiratory care including chest tubes, oral pharyngeal and tracheal suctioning; pulse and heart tone assessment utilizing the Doppler; and NG insertion. Pre- and post-operative teaching will also be emphasized. (2 contact hours)

## NUR-160-(2)

## Nursing Clinical Practice I

Prerequisite: BIO-180 with a grade of "C" or better, approved admission to the Nursing Program, NUR-140 and 150
Corequisites: Enrollment or credit with a grade of "C" or better in BIO-181, HSC-120, NUR 151
Clinical experiences focus on the application of the knowledge, skills and attitude of the learner in relation to the individual's common health needs in the long term care arena with emphasis on needs related to health maintenance, safety and protection, nutrition, elimination/exchange, activity, rest, comfort and cognition/perception. Integration of Nursing Concepts I and Nursing Arts I and II will be expected of the learner in providing nursing care to the individual. The lab component of this course will focus on normal lab values and performing select diagnostic skills such as pulse oximetry and blood glucose, and appropriate IV skills. (5 contact hours)

NUR-161-(3)

## Nursing Clinical Practice II

Prerequisite: NUR-152
Corequisites: BIO-119, HSC-140, NUR-141, NUR-142, PSY-104 Clinical experiences focus on the application of the knowledge, skill and attitudes of the learner in relation to the individual's needs in the acute care arena. The equivalent of up to two weeks of clinical will be designed using Simulation and/or select learn-
ing experiences in the latter half of this clinical course. Integration of Nursing Concepts I, II, and III; Nursing Arts I, II, and III; and Nursing Clinical Practice I will be expected of the learner in providing nursing care to the individual. (9 contact hours)

## NUR-165-(3)

## Nursing Transition I

Prerequisite: Consent of Instructor and successful completion of BIO-119, 180, 181; HSC-120, 140; NUR-140, 141, 142, 150, 151, 152, 160, 161; PSY-104
Precepted clinical experience focuses on application of knowledge, skills and attitudes in the roles of provider of care, manager of care and member within the profession. Emphasis is on adopting knowledge, skill and attitudes associated with coordinating care and functioning in the role of charge nurse in longterm care. Upon successful completion, the student will be a candidate for the NCLEX-PN. (7 contact hours)

## NUR-240-(2)

## Nursing Concepts IV

Prerequisite: NUR-165
Corequisites: NUR-250 and NUR-260
Course discussions focus on complex care of the individual incorporating IOM standards, QSEN competencies and the Nursing Process. Attention will be given to acute, episodic and/or crisis conditions. Specific concepts discussed will address the human needs of health perception-health management, nutrition, elimination, activity, rest, comfort, role/relationships, and cognition/ perception. (2 contact hours)

## NUR-241-(2)

## Nursing Concepts V

Prerequisites: NUR-240 and NUR-260
Corequisites: NUR-250 and NUR-261
Course discussions focus on complex care of the individual incorporating IOM standards, QSEN competencies and the Nursing Process. Attention will be given to acute, episodic and/or crisis conditions and needs of the individual, as well as on the needs for population-based care. Specific concepts discussed will address the human needs of health perception-health management pattern, sexuality/reproduction, role-relationship, self-perception and self-concept, coping-stress Intolerance, value-belief across the lifespan. Specific discussion on genetics and genomes, and medical bioethics will take place in this course.(2 contact hours)

## NUR-242-(2) <br> Nursing Concepts VI

Prerequisites: NUR-241, NUR-250, and NUR-261
Corequisite: NUR-262
Course discussions focus on leadership-management concepts applicable to prioritizing, applying critical thinking in making decisions, guiding, delegating, monitoring of self and others in completing quality patient-centered care for groups and individuals. The concepts of collaboration, change, conflict prevention and resolution, ethical and legal behaviors, and professionalism will be discussed. Attention will be paid to the concepts of delegation and collaborative/interdisciplinary practice, considering legal practice standards and incorporating IOM standards and

QSEN competencies. An introduction to health care systems, health care financing and quality initiatives will also be included. (2 contact hours)

## NUR-243-(2)

## Nursing Concepts VII

Prerequisites: NUR-242
Corequisite: NUR-262
Course discussions focus on the complex care of the individual incorporating IOM standards, QSEN competencies and the Nursing process. Attention will be given to community-based care initiatives, informatics, evidence-based practice, crisis and emergency management. (2 contact hours)

## NUR-250-(2)

## Nursing Arts IV

Prerequisite: NUR-165
Corequisites: NUR-240, 241, 260, and 261
Lab experiences focus on the skills performed by the RN according to IDFPR Administrative Code, including: central and peripheral line set-up and maintenance, IV medication titration, IV push medications, initiating and assessing blood administration, sterile procedure, central line dressing changes, performing and interpreting basic EKGs, fetal monitoring, epidural assessments, tracheotomy care, completing health history and physical assessment in the acute care setting, applying informatics, teaching, discharge planning, and health promotion concepts in acute and community settings. (4 contact hours)

## NUR-260-(2)

## Nursing Clinical Practice III

Prerequisite: NUR-165
Corequisite: NUR-240 and NUR-250
Clinical experiences focus on the application of the knowledge, skills and attitudes of the learner in relation to the individual's needs in the acute care arena. The equivalent of up to two weeks of clinical will be designed using Simulation and/or select learning experiences in this clinical course. Integration of Nursing Concepts IV and Nursing Arts IV will be expected of the learner in developing the roles of provider of care, manager of care and member within the profession. ( 6 contact hours)

## NUR-261-(2)

## Nursing Clinical Practice IV

Prerequisite: NUR-240, NUR-260
Corequisite: NUR-241 and NUR-250
Clinical experiences focus on the application of the knowledge, skills and attitudes of the learner in relation to the individual's needs in the acute care arena. The clinical will focus on acute care needs across the lifespan and specific experiences with individuals needing psychosocial care. Integration of Nursing Concepts V and Nursing Arts IV will be expected of the learner in developing the roles of provider of care, manager of care and member within the profession. (6 contact hours)

## NUR-262-(4)

## Nursing Clinical Practice V

Prerequisite: NUR-241, NUR-250, NUR-261
Corequisite: NUR-242 and NUR-243
Clinical experiences focus on the application of the knowledge, skills and attitudes of the student in relation to the individual's needs in the acute care arena. Integration of Nursing Concepts VI and VII, and Nursing Arts IV will be utilized by the learner in developing the roles of provider of care, manager of care and member within the profession. The course will emphasize opportunities to complete the leadership roles in using transformational leadership to assess, direct, delegate, and manage a team using the knowledge, skills and ethical behaviors while applying the concepts of leadership, informatics and evidence-based, quality, patient-centered care. (12 contact hours)

## NUR-265-(3)

## Nursing Transitions II

Prerequisite: Consent of Instructor and successful completion of NUR-242, 243, 262
Precepted clinical experience focuses on the application of knowledge, skills and attitudes in the roles of provider of care, manager of care and member within the profession. The focus of this course is for the student to make the transition from learner to novice practitioner. Given a list of approved sites with qualified preceptors, a student will select site(s) of preference for this preceptorship. Upon successful completion the student will be a candidate for the NCLEX-RN. (7 contact hours)

## OSA-Office Systems and Applications

## OSA-100-(1-3)

## Keyboarding I

This course provides one-credit or three-credit instruction. The one-credit course is designed to develop basic alphabetic keyboarding skills, numeric keypad skills, and fundamental keyboarding techniques. The three-credit course includes one-credit content as well as speed and accuracy development and document formatting. The skills developed in this course are necessary for success in Office Systems and Applications programs. Fee is required. (variable contact hours)
OSA-102-(3)

## Document Formatting

Prerequisite: OSA-100
Corequisite: Registration or credit in OSA-104
This course reinforces proper keyboarding techniques with further instruction in the creation of business letters, interoffice communications, reports, tables, and administrative documents. Emphasis is on document production and accuracy using popular word processing software. Students should possess the ability to keyboard a minimum of 30 nwpm prior to enrollment in this course. Fee is required. (4 contact hours)

## OSA-103-(3)

## Office Language Skills

Prerequisite: Grade of $B$ or better in COM-085 or appropriate score on placement test
This course is designed to give the office worker a solid foundation in the basics of English grammar, punctuation, and expression. Emphasis is placed on parts of speech, sentence structure, grammar, and punctuation. Other topics include spelling, vocabulary building, capitalization, and numbers expression. The use of current dictionaries and reference materials also is presented. (3 contact hours)

## OSA-104-(1)

## Keyboarding Speed and Accuracy

Prerequisite: OSA-100 or ability to keyboard 25 nwpm
This course is intended to refine keyboarding skills using an individualized diagnostic/prescriptive method for developing accuracy and speed. Emphasis is on the development of skill in the use of alphanumeric keys, symbols, and the numeric keypad. Students should possess the ability to keyboard a minimum of 25 nwpm prior to enrollment in this course. Fee is required. (2 contact hours)

## OSA-116-(1)

## Outlook

Prerequisite: IMS-101 or IMS-115
This course features the concepts, terminology, and techniques involved in utilizing a popular messaging and personal information management program, specifically Microsoft Outlook. Students will use tools and commands to send e-mail, manage mail with folders, process messages with rules, manage contacts, manage the calendar and meetings, manage tasks, and incorporate the use of categories and Outlook data files. Students must be familiar with the Windows environment. Students who successfully complete this course will possess the skills and knowledge necessary to take the Microsoft certification exam for Outlook. Fee is required. (1.5 contact hours)

## OSA-122-(3)

## Electronic Spreadsheets

Prerequisite: IMS-101 or IMS-115
This course is designed to develop advanced spreadsheet application skills and techniques. Professional-looking workbooks are created with Microsoft Excel or other popular spreadsheet software. Advanced features are presented including formulas, functions, charts, templates, macros, auditing tools, and pivot tables. Students who successfully complete this course will possess the skills and knowledge necessary to take the Microsoft Excel certification exam, a globally recognized standard that certifies a valid and reliable measure of technical proficiency and expertise. Fee is required. (4 contact hours)

## OSA-125-(3)

## Introduction to Website Design

Prerequisite: IMS-101 or IMS-115; MIS-111; and MIS-141
This course provides a strong understanding of Web design principles in the planning, building, publishing, maintaining, and publicizing of a Web site. The course focuses on the complete Web development cycle from the conception of the idea of a site through the building and publishing of the site utilizing Microsoft Expression Web or other current software applications. Construction components for this course will focus on WYSIWYG editors and computer animation programs. Fee is required. (4 contact hours)

## OSA-135-(3)

## Website Applications

Prerequisite: MIS-111 or MIS-141
This course introduces students to website development using current software applications. Using a hands-on approach, students will develop and enhance web pages and sites while applying layout and design principles. Students will learn how to incorporate graphics, multimedia, lists, hyperlinks, tables, forms, templates, CSS styles, and themes into the construction of web pages and sites. The development of low-bandwidth animations will also be covered. Fee is required. (4 contact hours)

## OSA-138-(3)

## Introduction to Digital Video Editing

This course is designed to teach the principles of digital video editing and production. Using both a conceptual and hands-on approach, students will learn how to edit and compile digital video files while understanding and employing essential steps in digital video production. Students will be exposed to storyboarding, filming techniques, capturing and importing video, incorporating audio files and tracks, markers and trimming, and ethical issues associated with digital video production. Success in the course requires familiarity with computers and strong file management skills. Students with little or no computer experience are strongly encouraged to enroll in IMS 101 prior to or concurrent with OSA 138. Fee is required (5 contact hours)

## OSA-145-(3)

## PC Word Processing

Prerequisite: IMS-101 or IMS-115
This course offers students an opportunity to develop intermediate to advanced word processing skills on a personal computer with Microsoft Word. Students will review basic word processing features such as text entry, editing, formatting, and spelling verification, and will then study topics including choosing fonts, manipulating tabs, merging documents, creating headers, footers, footnotes and endnotes, adding borders, frames and pictures, creating and using templates, writing and editing macros, and developing forms. Students should possess the ability to keyboard a minimum of 35 nwpm prior to enrollment in this course. Students who successfully complete this course will possess the skills and knowledge necessary to take the Microsoft certification exam for Word. Fee is required. (4 contact hours)

## OSA-225-(3) <br> Microsoft Publisher

Prerequisite: IMS-101 or IMS-115
This course introduces students to the concepts, techniques and features of Microsoft Publisher application. Students will design publications such as fliers, newsletters, brochures, business forms, and business cards. Other projects include integrating with Microsoft Office applications, developing an e-commerce Website, publishing Web pages, utilizing photo editing tools, linking and embedding objects from other applications, and publishing for print, e-mail distribution, and Web. Fee is required. (4 contact hours)

## OSA-230-(3)

## Business Presentations

Prerequisite: IMS-101 or IMS-115
This course is an introduction to professional business presentations. Planning, organizing, and delivering effective presentations will be emphasized. Students will create professional-quality slide presentations using Microsoft PowerPoint and other current graphics software. Students must be familiar with the Windows environment. Students who successfully complete this course will possess the skills and knowledge necessary to take the Microsoft certification exam for PowerPoint. Fee is required. (4 contact hours)

## OSA-232-(3)

## Desktop Publishing

Prerequisite: IMS-115 or OSA-225
This course utilizes QuarkXPress or other current desktop publishing software. Topics include typography, page layout, and basic design concepts. Students create brochures, flyers, and ads that incorporate text and graphic files and prepare the documents for successful printing output. Students must possess strong skills in Windows navigation, file management, and computer applications. Fee is required. (4 contact hours)

## OSA-234-(3)

## Introduction to PC Graphics

Prerequisite: IMS-115 or OSA-225
This course introduces vector drawing utilizing Adobe Illustrator or other current commercial illustration software. Students master the tools and techniques used for both print and Web graphics. Topics include industry terminology, color, layout, and design principles. Fee is required. (4 contact hours)

## OSA-235-(3)

## Desktop Publishing Applications

Prerequisite: IMS-115 or OSA-232
This course is designed to further develop skills utilizing Adobe InDesign or other current desktop publishing software. The course is fast paced and project oriented with emphasis on independent work and decision-making in the design and layout of computer generated documents, including forms, brochures, and newsletters. Fee is required. (4 contact hours)

## OSA-236-(3)

## PC Graphics Applications

Prerequisite: IMS-115 or OSA-234
This course encompasses bitmap manipulation utilizing Adobe Photoshop or other current image editing software. Students will master a variety of tools and techniques to edit and create digital images used for print and Web. Additional topics include color modes, resolution, file formats, and optimization. Basic page layout and design principles are included. Fee is required. (4 contact hours)

## OSA-238-(3)

## Advanced Digital Video Editing

## Prerequisite: OSA-138

This course is designed to teach advanced digital video editing and production. Using both a conceptual and hands-on approach, students will learn how to enhance, render, and compile digital video files using a variety of techniques and special effects. Students will be exposed to advanced video enhancement techniques such as keyframes, chroma keying, use of layers to animate text and shapes, motion techniques, working with mattes, and 3D objects. Fee is required. (5 contact hours)

## OSA-243-(2)

## Business Writing

This course prepares students to plan, write and revise letters, memos, reports, and other documents common in personal and business communication. Emphasis is on organization, clarity, and professionalism as well as anticipating the reader's reaction to such documents. Traditional and electronic job search techniques are also covered. Students will use the Internet as a resource for some activities. Word processing and file management skills are strongly recommended for successful completion of this course. Also recommended are OSA-103 and the ability to keyboard a minimum of 25 nwpm. Fee is required. (3 contact hours)

## OSA-246-(3) <br> PC Applications Integration

Prerequisite: OSA-145
This course is designed to develop advanced integrated PC application skills and techniques required for the completion of business projects. This course focuses on the use of the Microsoft Office Suite. Content includes the integration of advanced features such as merging, tables, charts, automated entries, styles, templates, forms, columns, graphics, and master documents. Students will use the Internet as a resource for some activities. This is a capstone course which should be taken near the completion of a student's program. Completion of or co-enrollment in OSA 122 , OSA 230, and OSA 257 is strongly recommended for successful completion of this course. Students who successfully complete this course will possess the skills and knowledge necessary to take the Microsoft certification exam for Word. Fee is required. (4 contact hours)

## OSA-249-(3)

## Accounting for Office Professionals

This course will assist students in develop an understanding of accounting principles and procedures. Students will learn how each step of the accounting cycle relates to the operations of today's business office. Students will analyze and record transactions and will develop and interpret financial statements. Students will study a manual accounting system first and will then enter transaction data into a computerized accounting system and print reports. Fee is required. (4 contact hours)

## OSA-250-(2)

## Records Management

This course introduces the basic filing methods and procedures needed to ensure the effectiveness of records systems. This course stresses the fundamentals of records programs to manage all phases of the records cycle. Electronic file management is explored. (2 contact hours)

## OSA-252-(3)

## Legal Terminology and Procedures

Prerequisite: OSA-102 or OSA-145 and OSA-103 with a grade of " $C$ " or better
This course prepares students for work in a legal office. Topics include technical and personal skills, ethical and legal considerations in the work environment, legal terminology, preparation of legal documents and business correspondence, legal records management, and basic transcription skills. This course also introduces students to online documents preparation of court and state documents. Fee is required. (4 contact hours)

## OSA-255-(3)

## Administrative Office Procedures

Prerequisite: OSA-102 or OSA-145 and OSA-103 with a grade of "C" or better
This course is a capstone for administrative assistant training. It provides students the opportunity to utilize and build on skills they have previously developed. OSA-255 covers decision-making competency, human relations techniques, technical and personal skills needed to meet requirements in diverse national and international offices, telecommunications and telework, records management techniques, document creation skills, organizational skills, online research skills, travel and meeting planning, and ethical and legal considerations in the work environment. This course also introduces the student to basic transcription techniques. (4 contact hours)

## OSA-257-(3)

## Database Management

## Prerequisite: IMS-101 or IMS-115

This course presents the features of Microsoft Access or other current database management systems. Topics include identifying terminology associated with database software, designing the structure of tables in a relational database, designing queries and reports, creating screen forms to facilitate data entry, and designing macros. Students will also examine database utilities used for backing up and securing databases as well as techniques for importing and exporting data. Students must be familiar with the Windows environment and possess file management skills. Students who successfully complete this course will possess the skills and knowledge necessary to take the Microsoft certification exam for Access. Fee is required. (4 contact hours)

## OSA-258-(3) <br> \section*{Internship}

Prerequisite: 2.0 GPA after completing a minimum of $50 \%$ of the certificate or degree requirement
This course is a planned and supervised career field experience related to the student's occupational program in Office Systems and Applications. The work experience will provide the student with an opportunity to utilize and strengthen technical and interpersonal skills learned in the classroom. The intern will continue to develop and enhance all aspects of his/her professionalism while on the job. The student must work a minimum 225 hours. Students are encouraged to complete OSA 260, Seminar, prior to pursing an internship.

## OSA-260-(1)

## Seminar

## Corequisite: OSA-102 and OSA-103

This capstone, professional development course helps students sort through the many career options available in today's offices. Included are tips for polishing their professional images and engaging in productive communication. Students outline the difference between a job and a career, explore areas of specialization, and prepare for job interviews. Ethics, teamwork, certification, business etiquette and protocol, and changes in the workplace are examined. Students utilize the World Wide Web extensively when completing assignments. This course is a capstone course and should be taken near the completion of the certificate or degree program and is recommended for students planning to enroll in OSA 258, Internship. (1 contact hour)

## OSA-275-(3) <br> PC Applications for Power Users

Prerequisite: IMS-215 or both OSA-122 and OSA-257
Teaches advanced topics in PC application development by using both a conceptual and hands-on approach. Focuses on the study of Visual Basic for Applications (VBA) and will provide students with opportunities to gain experience using VBA to create advanced spreadsheet and database applications. This is an applications programming class for students with little or no programming experience. The fundamentals of Visual Basic programming will be examined and later applied to spreadsheet and database applications. Popular development software will be utilized in class projects and other hands-on assignments and demonstrations. Students should be aware and comfortable understanding there are both theoretical and practical components to this course. Fee is required. (4 contact hours)

## PEH—Physical Education and Health

## PEH-101-(1)

## Adaptive Physical Education

Introduces fundamental skills, modified recreational games, dance and fitness, and aquatics for the benefit of physical exercise and leisure-time activity. Fee is required. (2 contact hours)
PEH-105-(1)
Physical Fitness
Prerequisite: HF3-100—HFC Intro—The student must complete this mandatory session prior to beginning all course work and activity. A medical release may be required.
This course is designed to build fitness knowledge and level by introducing students to exercise workouts involving cardiovascular conditioning, weight training and flexibility. Students will learn to use free weights, weight machines and cardio exercise machines. Fee includes membership at Moraine Valley's Health Fitness Center. Fee is required. (2 contact hours)

## PEH-107-(1)

## Introduction to Group Fitness

This class is designed for students interested in learning and achieving fitness through cardiovascular, strength, and flexibility training at an introductory low level. Fee includes membership at Moraine Valley's Health Fitness Center. Fee is required. (2 contact hours)

## PEH-108-(1)

## Weightlifting

Prerequisite: HF3-100—HFC Intro—The student must complete this mandatory session prior to beginning all course work and activity. A medical release may be required.
This course is designed to give the student knowledge of weight training guidelines and basic skills, which will allow him/her to successfully perform an individual weightlifting program. Fee includes membership in the Moraine Valley Health Fitness Center. Fee is required. (2 contact hours)

## PEH-110-(1)

## Ballet I

Learn the principles of ballet and elements of technique, through barre and center work, to develop fundamental dance skills acquired through beginning dance techniques, combinations and choreography. Fee includes membership at Moraine Valley's Health Fitness Center. Fee is required. (2 contact hours)

## PEH-111-(1)

## Ballet II

Prerequisite: PEH-110 or consent of instructor
Continuation of beginning ballet with additional elements of technique, in barre and center work, to further develop fundamental ballet skills previously acquired into intermediate levels of dance techniques, combinations and choreography. Fee includes membership at Moraine Valley's Health Fitness Center. Fee is required. (2 contact hours)

## PEH-112-(1)

## Jazz Dance I

Learn the principles of jazz dance and elements of technique to develop fundamental jazz dance skills acquired through beginning dance techniques, combinations and choreography. Fee includes membership at Moraine Valley's Health Fitness Center. Fee is required. (2 contact hours)

## PEH-113-(1)

## Jazz Dance II

## Prerequisite: PEH-112 or consent of instructor

Continuation of beginning jazz with additional elements of technique and further development of fundamental jazz dance skills previously acquired into intermediate levels of dance techniques, combinations and choreography. Fee includes membership at Moraine Valley's Health Fitness Center. Fee is required. (2 contact hours)

## PEH-117-(1)

## Modern Creative Dance I

This course teaches concepts of modern dance, creative movement, dance patterns and techniques. Explore qualities of movement, improvisation and ability to create and explore body awareness through movement and self expression. Fee includes membership at Moraine Valley's Health Fitness Center. Fee is required. (2 contact hours)
PEH-118-(1)

## Modern Creative Dance II

Prerequisite: PEH-117 or consent of instructor
Continuation of beginning modern dance with further exploration of creative movements, patterns, and the ability to create and explore body awareness through movement and self expression at an intermediate level. Fee includes membership at Moraine Valley's Health Fitness Center. Fee is required. (2 contact hours)

## PEH-120-(1)

## Introduction to Body/Mind Fitness

Learn a progressive series of exercises designed to increase strength, flexibility, and balance for the body, mind, and spirit. Movements are derived from the classic disciplines of yoga, Pilates, traditional stretching, and meditation. The course foundation is in unified body training, core stabilization, and mindful movement. Fee includes membership at Moraine Valley's Health Fitness Center. Fee is required. (2 contact hours)

## PEH-130-(1)

Basketball I
Covers knowledge, skills and strategies used in basketball. Fee is required. (2 contact hours)

## PEH-131-(1)

## Volleyball

Basic knowledge, fundamental skills and team strategies used in power volleyball are covered. Fee is required. (2 contact hours)

## PEH-132-(2)

## Fundamentals of Football

Learn offensive and defensive systems used in modern college football. Analyze new techniques and philosophies employed by modern coaches. Fee is required. (3 contact hours)

## PEH-133-(1)

## Basketball II

Prerequisite: PEH-130
Skills, knowledge and strategies used in college-level competitive basketball are explored. Fee is required. (2 contact hours)

## PEH-134-(2)

## Baseball

Introduces basic baseball concepts, teaching progressions of fundamental baseball skills, team offensive and defensive strategies, and conditioning. Fee is required. (3 contact hours)

## PEH-138-(1)

## Cardiovascular Conditioning

Prerequisite: HF3-100-HFC Intro-The student must complete this mandatory session prior to beginning all course work and activity. A medical release may be required.
This course is designed to help students develop and maintain cardio respiratory fitness through regular aerobic exercise using various types of cardiovascular equipment. Fee includes membership at Moraine Valley's Health Fitness Center. Fee is required. (2 contact hours)

PEH-140-(1)

## Weight Training

Prerequisite: HF3-100-HFC Intro-The student must complete this mandatory session prior to beginning all course work and activity. A medical release may be required.
This course is designed to help students develop their own weight training program by expanding their knowledge of weight training guidelines and principles for developing muscular strength, endurance, power and muscle symmetry through the use of free weights, weight machines and other training equipment. Fee includes membership at Moraine Valley's Health Fitness Center. Fee is required. (2 contact hours)

## PEH-141-(1)

## Classic Cardio Fitness

This course is designed for students interested in achieving fitness through cardiovascular strength and flexibility training at low to moderate levels. Fee includes membership at Moraine Valley's Health Fitness Center. Fee is required. (2 contact hours)

## PEH-142-(1)

## Cardio Cross Training

This course is designed for students interested in achieving fitness through cardiovascular conditioning, strength/endurance and flexibility training at moderate to high levels while engaging in a variety of cross training exercises. Fee includes membership at Moraine Valley's Health Fitness Center. Fee is required. (2 contact hours)

## PEH-143-(1)

## Aerobics III (Life Fitness)

Designed for students who desire to improve the cardiovascular system using aerobic and calisthenic routines. This aerobic course combines low-impact with higher-impact aerobics for an energy-filled routine. Excellent for increasing muscle tone, cardiovascular fitness, and losing pounds and inches. Fee is required. (2 contact hours)

## PEH-144-(1)

## Dance Cardio Fitness

This course is designed for students interested in achieving fitness through cardiovascular, strength and flexibility training at moderate to high levels, while engaging in a variety of dance styles and elements. Fee is required. (2 contact hours)

## PEH-150-(3)

## Introduction to Physical Education

Open to physical education majors, this course encourages professional understanding of the scope and nature of physical education and related fields. (3 contact hours)

## PEH-151-(2)

## Lifetime Activities-Net Games

Explore basic skills, strategies and rules of net games: badminton, tennis, paddleball and table tennis. Emphasizes teaching methods and techniques. Fee is required. (4 contact hours)

## PEH-152-(2)

## Lifetime Activities-Conditioning

Fundamentals of conditioning and aquatic activities, organization of programs and teaching methods are included. Fee is required. (4 contact hours)
PEH-153-(2)

## Lifetime Activities-Archery and Golf

Explore basic form, techniques, terminology, and equipment used in archery and golf. Emphasizes teaching methods and course organization. Fee is required. (4 contact hours)

PEH-154-(2)

## Team Sports

Learn basic skills, strategies, rules, and officiating procedures used in team sports such as basketball and volleyball. Emphasizes teaching methods and techniques. Fee is required. (4 contact hours)

## PEH-160-(3)

## Fundamentals of Human Movement

This course presents an analysis of human movement with emphasis on the muscular and skeletal systems. Topics covered include basic movement activities, human movement in sports and fitness and requirements of successful motor performance. Fee is required. (4 contact hours)

## PEH-161-(4)

## Fitness Methodology

Prerequisite: Registration or credit in PEH-160
This course emphasizes the methodology and applications used with cardio-respiratory, muscular strength and endurance development, flexibility and relaxation training exercises. The course explores fitness through practical and theoretical application in basic physiology and kinesiology as it relates to movement and exercise. Fee is required. (5 contact hours)
PEH-162-(3)
Fitness Testing
This course examines methods for testing and evaluating individual health status and fitness levels. Students will monitor, conduct, and interpret fitness tests in cardiorespiratory, muscular strength/endurance, flexibility, and body composition. As a requirement for completing this course, students must obtain a current CPR certificate. (4 contact hours)
PEH-163-(3)

## Fitness Programming

## Prerequisite: PEH-161

This course explores exercise programming methods, theories and guidelines for all fitness components for healthy and special populations through practical teaching experiences. It emphasizes developing implementing and analyzing exercise programs for cardio-respiratory, muscular strength and endurance, and flexibility training. Students will gain the knowledge necessary to become an effective and successful fitness/personal trainer. Fee is required. (4 contact hours)

## PEH-164-(3)

## Exercise for Special Populations

Prerequisite: PEH-160 and PEH-161
This course is designed to introduce and prepare exercise specialists in the skills, methods and practical guidelines needed for exercise testing and exercise program design for individuals with predisposed conditions and chronic diseases. (4 contact hours)

PEH-165-(3)

## Fitness Business Skills and Promotion

This course is designed to provide business concepts for students pursuing a career in the fitness trainer field. Students will learn to develop, market, and maintain a fitness training business. Topics include legal issues, ethical conduct, and social responsibilities. This course also analyzes promotion, including communication, advertising, and public relations, as they relate to the fitness training field. (3 contact hours)

## PEH-170-(3)

## First Aid

Designed to teach students the currently accepted Red Cross procedures and principles to be followed in the event of an accident or sudden illness. Upon successful completion students will receive an Adult CPR/AED card, an Infant/Child CPR card and a Community First Aide and Safety card from the Red Cross. Fee is required. (3 contact hours)

## PEH-171-(3)

## A Healthy Lifestyle and You

This is a self-awareness course that provides the student with opportunities to acquire the knowledge and tools needed to make intelligent decisions to live a healthy life. (3 contact hours)
PEH-172-(3)

## Nutrition for Today

This course examines nutrition theory in relation to health, wellness and disease prevention. It examines the science of nutrition including digestion and absorption of macro and micro nutrients. The course covers the relationship between nutrition, health, wellness and disease prevention. Students will study various methods of establishing good nutritious patterns. (3 contact hours)

## PEH-175-(2)

## Teaching Group Fitness

This course is designed for students who wish to integrate the study of group fitness methodologies, exercise science, and practical teaching experience. This course prepares students for national certification and potential fitness careers. Fee is required. (3 contact hours)

## PEH-181-(2)

## Fundamentals of Rhythmical Movement

Develops basic dance skills and techniques for primary and intermediate grade levels. Emphasizes teaching methods and organization. Fee is required. (2 contact hours)

## PEH-190-(3)

## Outdoor Recreation and Nature Study

Explore objectives, organization, techniques, counseling, and skills of outdoor recreation. Includes camping and survival skills, fishing and outdoor education activities. Fee is required. (3 contact hours)

## PHB-Phlebotomy

PHB-105-(1)

## Phlebotomy for Health Care Providers

Prerequisite: 1 year of study in any of the following programs: Nursing, Radiologic Technology, Respiratory Therapy, or consent of the Phlebotomy Program Coordinator
This course provides instruction in two skill areas, namely fundamentals of blood collection and venous access techniques. Students are awarded one credit hour upon successful completion of the lecture and laboratory components. This course does not lead to certification. ( 1.5 contact hours)

## PHB-110-(6)

## Principles and Practice of Phlebotomy

PHB-110 is a six-credit hour course which consists of lecture and laboratory components. Lecture topics addressed in this course include proper patient and specimen identification; medical terminology; anatomy and physiology appropriate to the practice of phlebotomy; communication skills, safety, infection control, blood collection equipment, and blood collection procedures, including venipuncture, skin puncture and arterial puncture; collection of certain body fluids, including urine, feces and sputum; specimen transport and storage requirements; quality assurance; and quality control. The laboratory component includes practice in the procedures discussed in the lecture component. Successful completion of PHB-110 as defined by program faculty is a prerequisite for PHB-112. (8 contact hours)

PHB-111—(1)

## Phlebotomy Clinical Practice Seminar

Prerequisite: $P H B-110$
Corequisite: PHB-112
This course is designed as a capstone experience for students assigned to a phlebotomy clinical rotation. Discussion topics include student reaction to supervised clinical experiences, professional issues, communication skills appropriate for a diverse patient population, and application of customer service skills. Fee is required. (1 contact hour)

## PHB-112-(2)

## Phlebotomy Clinical Practice

Prerequisite: PHB-110
Corequisite: $P H B-111$
PHB-112 is a two-credit hour course consisting of 120 contact hours of supervised clinical practice of phlebotomy at one of the Moraine Valley Community College Phlebotomy Program's clinical affiliate sites. This course provides the student with additional phlebotomy practice in a clinical setting and is designed to develop blood specimen collection skills to a level consistent with entry into the profession. Clinical experiences will include experience collecting a variety of specimens from a variety of patient types. Fee is required. (8 contact hours)

## PHI—Philosophy

## PHI-101-(3)

## Introduction to Philosophy

Introduces philosophical questions and philosophical ways of reasoning. Examines some key notions in the history of Western thought in areas of metaphysics, epistemology and ethics. (3 contact hours) IAI: H4 900
PHI-110-(3)

## Introduction to Formal Logic

Introduces formal and symbolic logic, including syllogistic, propositional and predicate inference. (3 contact hours)

## PHI-111-(3)

## Critical Thinking

Introduces principles and methods for rational argument and effective problem solving. (3 contact hours) IAI: H4 906

## PHI-115-(3)

## Approaches to Truth

A survey of methods. Logical, intuitive, revelatory, scientific, and mystical approaches to truth and knowledge. (3 contact hours)

## PHI-120-(3)

## World Religions

Explores the principal doctrines (world view), typical behavior (lifestyle) and sphere of influence of Christianity, Islam, Judaism, Hinduism, Confucianism, Buddhism, and some tribal religions. Emphasizes comparison and examines themes such as view of God, condition of man, requirements for moral life, and relation to social and political forms. (3 contact hours) IAI: H5 904N

PHI-125-(3)

## Ethics

This course will serve as an introduction to ethical philosophy and will include the study of several influential thinkers and various ethical theories. Key topics that will be discussed include social responsibility, moral standards and behaviors, natural law and ancient and modern theories of the moral life, as well as several contemporary moral issues. (3 contact hours) IAI: H4 904

## PHI-225-(3)

## Bioethics

Introduces problems in ethics surrounding developments in medicine and biological research. Introduces major ethical systems and encourages ethical methodology. This course is caseoriented. (3 contact hours)

## PHI-226-(3)

## Business Ethics

This case-oriented course introduces moral problems associated with industry and commerce. Introduces major ethical systems and encourages ethical methodology. Note: Only three credit hours can be earned for either BUS-226 or PHI-226. Duplicate credit in both courses is not awarded. (3 contact hours)

## PHS-Physical Science

## PHS-101-(4)

## Physical Science

Prerequisite: MTH-095 or 1 year of high school algebra Introduces chemistry, physics and astronomy for nonscience majors. This course includes a one-hour laboratory component. Fee is required. (5 contact hours) IAI: P9 900L

PHS-103-(4)

## Descriptive Astronomy

Studies structure, motions, origin, and evolution of the solar systems, stars, galaxies, and the universe. Requires some night observations. This course includes a one-hour laboratory component. Fee is required. (5 contact hours) IAI: P1 906L

## PHS-105-(3)

## Astronomy-Cosmos

Explores astronomy and space exploration in the broadest human context. Embraces many sciences and cultures, and provides cosmic perspective for the planet Earth. Investigates diverse topics such as cosmic catastrophies, travel to the stars, cosmic influences on evolution, collisions of the continents, origin of life, contact with other civilizations, birth and death of stars and galaxies, future of the earth, and origin and fate of the universe. (3 contact hours)

## PHY-Physics

## PHY-106-(3)

## Fundamentals of Physics

Prerequisite: 1 year of high school algebra
An examination of physical principles and phenomena with applications in mechanics, properties of matter, heat, sound, electricity, magnetism, light, and quantum physics. The course does not assume that students have had high school physics and is intended for nonscience liberal arts and technical students. It will include large group mini-labs and demonstrations. PHY-106 taken concurrently with PHY-107, Fundamentals of Physics Lab, is also designed as an entry-level course for PHY-150, standard college physics. PHY-107 taken concurrently with PHY-106 will satisfy the physical science general education requirement. (4 contact hours) IAI: P1 900L

## PHY-107-(1)

## Fundamentals of Physics Lab

Corequisite: Registration or credit in PHY-106 or consent of instructor
A laboratory examination of physical principles and phenomena in mechanics, properties of matter, heat, sound, electricity, magnetism, light, and quantum physics. The course does not assume that students have had high school physics, and is intended for nonscience liberal arts and technical students. PHY-107 taken concurrently with PHY-106, Fundamentals of Physics, is also designed as an entry-level course for PHY-150, standard college physics. PHY-106 taken concurrently with PHY-107 will satisfy the physical science general education requirement. Fee is required. (2 contact hours) IAI: P1 900L

## PHY-110-(3)

## Mechanical Universe I

## Prerequisite: MTH-095

This introductory course in physics covers mechanics, heat, waves, and forces using approximately 30 half-hour videotapes. Satisfies the science requirement for the nonscience major. PHY-111, Mechanical Universe I Lab, taken concurrently with PHY-110 will satisfy the physical science general education requirement. (3 contact hours) IAI: P1 900

## PHY-111-(1)

## Mechanical Universe I Lab

Prerequisite: MTH-095 or consent of instructor;
Corequisite: Registration in PHY-110 or consent of instructor This transfer physics lab course is intended to be correlated with PHY-110 but may be taken separately. Covers scientific experiments and observations that enhance an understanding of mechanics, heat, waves, and forces. Home experiments and field trips may be substituted for regularly scheduled sessions in the physics lab. PHY-110, Mechanical Universe I, taken concurrently with PHY-111 will satisfy the physical science general education requirement. (2 contact hours) IAI: P1 900L

## PHY-112-(3)

## Mechanical Universe II

Prerequisite: MTH-095 and PHY-110 or consent of instructor This introductory physics course covers light, electricity, magnetism, quantum theory, atomic structure, relativity, and nuclear energy. (3 contact hours)

## PHY-113-(1)

## Mechanical Universe II Lab

Prerequisite: MTH-095 and PHY-111 or consent of instructor Corequisite: Registration in PHY-112 or consent of instructor An introductory laboratory in physics which covers scientific experiments and observations to enhance understanding of electricity, magnetism, waves, light, quantum theory, and nuclear energy developed in PHY-112. (2 contact hours)

## PHY-150-(4)

## Mechanics, Heat and Sound

Prerequisite: MTH-098 or 2 years of high school algebra This general college physics course for liberal arts or science majors covers motion, momentum, work, power, energy, fields, heat, and forces. This course includes a one-hour laboratory component. Fee is required. ( 6 contact hours) IAI: P1 900L

## PHY-151-(4)

## Electricity, Magnetism and Light

## Prerequisite: PHY-150

DC circuits, radiation, relativity, nuclear and elementary particles, and quantum theory are examined. Fee is required. (6 contact hours)

## PHY-203-(4)

## Mechanics

Prerequisite: MTH-150
Introduces physics with calculus for science, engineering and math majors. Explores simple equations of motion, vectors, forces in equilibrium, and the laws of dynamics. Applications including linear, rotational and harmonic motions. Introduces hydrostatics and hydrodynamics. One year of high school physics is strongly recommended. This course includes a one-hour laboratory component. Fee is required. (6 contact hours) IAI: P2900L

## PHY-204-(4)

Heat, Electricity and Magnetism

## Prerequisite: PHY-203

Second in the introductory physics sequence for science, engineering and math majors, thermal properties of matter and thermodynamics are covered. Electric and magnetic fields; electric and magnetic properties of matter; the laws of electricity and magnetism; AC, DC and transient currents; and electromagnetic oscillations are studied. Fee is required. (6 contact hours)

## PHY-205-(4)

## Waves and Modern Physics

## Prerequisite: PHY-204

Third in the introductory physics sequence for science, engineering and math majors, properties and equations of waves applied to sound and light are examined. Covers relativistic mechanics, and basic atomic and nuclear structure. Emphasizes quantum nature of applicable laws. Fee is required. (6 contact hours)

## PSC-Political Science

PSC-103-(3)

## Introduction to Political Science

Introduces the principles of politics and government. Explores the role of U.S. citizens in the political process. Ideologies, the role of the media in politics, political development, and analysis of politics will be discussed. (3 contact hours) IAI: S5 903

## PSC-110-(3)

## American National Government

Explores basic principles of the Constitution, and structure and functions of the federal government. Includes Congress, presidency and judiciary. The roles of political parties, pressure groups and public opinion in American politics are examined. (3 contact hours) IAI: S5 900

## PSC-115-(3)

## State and Local Government

Study basic principles of state constitutions. Structure and function of state legislatures, courts and chief executives; structure and functions of city, county and other local governments; and the role of political parties, pressure groups and public opinion are covered. (3 contact hours) IAI: S5 902

## PSC-210-(3)

## International Relations

Introduces international relations, foreign policies, international organizations, conflict, and accommodation in the international system. (3 contact hours) IAI: S5 904N

## PSC-212-(3)

## Latin American Politics

Caribbean and Central and South American nations' historical development and current social, economic and political problems with focus on governments, politics and policies are included. (3 contact hours)

## PSC-215-(3)

## Comparative Government

Introduces comparative governments and institutions in major European democracies, Communist systems and the Third World. (3 contact hours) IAI: S5 905

## PSC-225-(3)

## Non-Western Comparative Politics

Examine and compare government and politics in Asia, Africa, the Middle East, and Latin America within region-specific historical, social, and economic contexts and the global environment. (3 contact hours) IAI: S5 906N

## PSG-Polysomnography

## PSG-105-(3)

## Polysomnography Patient Care I

Prerequisite: Admission into the Polysomnography program Corequisite: PSG-110
This course is the first in a series for the Polysomnography Technology Certificate Program. This course introduces the student to the sleep disorders center environment. The course provides instruction in patient care technologies, lab safety, and professional and ethical behavior. The course examines sleep architecture, sleep staging, and sleep physiology. Explores sleep disorders and provides an overview of sleep medicine. Provides laboratory practice in patient preparation for polysomnography testing, including electrode placement, biocalibration and running a study. Develops awareness of sleep as a public health issue. Discusses technologists' roles and responsibilities as sleep health advocates. (6 contact hours)

## PSG-110-(3)

## Cardiopulmonary Physiology

Prerequisite: Admission into the Polysomnography program Corequisite: PSG-105
Provides the foundations for clinical practice in respiratory care or polysomnography. Describes the respiratory system with emphasis on ventilation and respiration during wakefulness, sleep, and in disease. Discusses basic cardiovascular anatomy and physiology in health and disease. Indications, hazards, and benefits of oxygen therapy, non-invasive ventilation, and positive airway pressure for breathing-related sleep disorders will be presented. (3 contact hours)

## PSG-115-(4)

## Polysomnography Patient Care II

Prerequisite: Current health care provider; CPR certification, completed student history and physical; PSG-105, PSG-110 Corequisite: Registration in PSG-120
This course is structured to provide didactic instruction in advanced aspects of sleep technology, including pediatrics, PAP titration, oxygen administration, staging and scoring routine and split night studies, MSLT and MWT studies. Discuss laboratory emergencies, sleep center management, patient education, sleep disorders prevalence, etiology, pathophysiology, diagnosis, treatment, and prevention. Sleep and medical disorders are investigated. This course also provides an in-depth view of sleep
as a public health issue and the role of the sleep technologist in advocacy for and enhancement of the profession. This course provides the cognitive skills required for students to perform polysomnography in a clinical setting. (4 contact hours)

## PSG-120-(4)

## Polysomnography Clinical Application

Prerequisite: Current health care provider; CPR certification; completed student history and physical, and PSG-105, PSG-110 Corequisite: Registration in PSG-115
Provides laboratory and sleep disorders center experience in polysomnography, correlating principles taught in PSG-115. Provides hands-on instruction in use of specialized instruments to measure and record physiological parameters during a sleep study. Experience includes online monitoring and analysis of PSG recordings, and patient interaction. Examines recognition of and appropriate response to critical events that can occur in sleep. Fee is required. (20 contact hours)

## PSR-Psychiatric Rehabilitation

## PSR-120-(3)

## Survey of Psychiatric Rehabilitation

Corequisite: Registration or credit in PSR-220
This course is the first in the series for the Psychiatric Rehabilitation Certificate. Courses in the series focus on a rehabilitative approach to serving individuals with severe mental illness. This approach is based on the premise that consumers set the goals for the rehabilitation team. This survey course has four major themes: understanding psychiatric disability and current approaches to treatment, the mental health system and surrounding legal issues, psychiatric rehabilitation through vocational and skills training, and family and community support systems. The orientation of the course is more practical than theoretical, and there is considerable opportunity to observe and practice relevant skills. Consumers serve as guest speakers to highlight issues of empowerment and stigma, and to increase understanding of consumer experiences with the mental health system. This course is appropriate for students planning careers in mental health. (3 contact hours)
PSR-125-(3)

## Psychiatric Rehabilitation Skills

Prerequisite: PSR-120
Corequisite: Registration or credit in PSR-225
This course is the second in the series for the Psychiatric Rehabilitation Certificate. The orientation of the course is more practical than theoretical, and there is considerable opportunity to observe and practice relevant skills. Students learn basic techniques for conducting interviews for use in assessment, treatment planning, and therapeutic interactions with consumers. Students learn to conduct skills-training groups and apply behavioral techniques for implementing programs that promote desired skills. Techniques for intervening in crisis situations, and preventing and managing aggression are presented. (3 contact hours)

PSR-130-(3)
Health Skills for Psychiatric Rehabilitation
Prerequisite: PSR-120
Corequisite: Registration or credit in PSR-230
This course examines three dimensions of wellness: physical, emotional and environmental. This organization uses a multidimensional model of health based on wellness continua in each dimension. This view that wellness is more than the absence of illness guides students through discussions and skill development designed to improve the overall well-being of persons with severe mental illness. The orientation of the course is more practical than theoretical and there is considerable opportunity to observe and practice relevant skills. Students will learn the fundamentals of physical wellness, including diet, nutrition, exercise, sanitation, disease prevention and control, and special health considerations for persons with severe mental illness. The emotional dimension of wellness includes social support, physical and sensory accommodations, and geriatric and developmental disabilities. Students will learn the essentials of environmental safety, including use of safety equipment and proper (3 contact hours)

## PSR-135-(3)

## Vocational and Community Living Skills

## Prerequisite: PSR-120

Corequisite: Registration or credit in PSR-235
This course is the fourth in a series for the Psychiatric Rehabilitation Certificate. Courses in the series focus on a rehabilitation approach to serving individuals with severe mental illness. This approach is based on the premise that consumers set the goals for the rehabilitation team. This course examines vocational rehabilitation and community living skills. Both themes address skills for working with community, state and federal agencies that serve persons with severe mental illness. The orientation of the course is more practical than theoretical, and there is considerable opportunity to observe and practice relevant skills. Students will learn the fundamentals of vocational rehabilitation, including duties and tasks commonly required in vocational settings (e.g., mediation, negotiation, job coaching, job analysis) and the development of employment sites. Practical application of current policies (e.g., Americans with Disabilities Act) impacting employment sites are presented. (3 contact hours)

## PSR-220-(1)

## Psychiatric Rehabilitation Internship I

This internship requires a minimum of 38 clock hours of field experience by the student. Experiences are a combination of observation and participation/interaction with consumers of mental health services. The 38 hours will include four of the following areas: inpatient milieu and general activities, case management activities, vocational training activities, skills training activities, and consumer-led activities. All experiences should focus on a rehabilitative approach to serving individuals with severe mental illness. Group or individual supervision with onsite clinical staff and/or supervision by field placement director also is required. (5 contact hours)

## PSR-225-(1)

Psychiatric Rehabilitation Internship II
Prerequisite: PSR-120 and PSR-220
This internship requires a minimum of 38 clock hours of field experience by the student. Experiences are a combination of observation and participation/interaction with consumers of mental health services. The 38 hours will include interviewing skills and leading skills training groups, AND at least one of the following: behavior definition and task analysis, aggression management, assessment and treatment planning, or individual supervision with on-site clinical staff and/or supervision by field placement director also is required. All experiences should focus on a rehabilitative approach to serving individuals with severe mental illness. Group or individual supervision with on-site clinical staff and/or supervision by field placement director also is required. (5 contact hours)

## PSR-230-(1)

## Psychiatric Rehabilitation Internship III

Prerequisite: PSR-120, PSR-125, PSR-220, PSR-225
This internship requires a minimum of 38 clock hours of field experience by the student. Experiences are a combination of observation and participation/interaction with consumers of mental health services. The 38 hours will include eight activities in the following areas: physical wellness, emotional and social wellness, environmental wellness, and documentation. All experiences should focus on a rehabilitative approach to serving individuals with severe mental illness. Group or individual supervision with on-site clinical staff and/or supervision by field placement director also is required. (5 contact hours)

## PSR-235-(1)

## Psychiatric Rehabilitation Internship IV

Prerequisite: PSR-120, PSR-125, PSR-130, PSR-220, PSR225, PSR-230
This internship requires a minimum of 38 clock hours of field experience by the student. Experiences are a combination of observation and participation/interaction with consumers of mental health services. The 38 hours will include two areas: vocational rehabilitation and case management. All experiences should focus on a rehabilitative approach to serving individuals with severe mental illness. Group or individual supervision with on-site clinical staff and/or supervision by field placement director also is required. Clinical staff and/or supervision by field placement director also is required. (5 contact hours)

## PSY-Psychology

## PSY-101-(3)

## Introduction to Psychology

This course covers psychological theories and scientific methods used in the study of behavior of man and animals. Study sensation and perception, motivation, emotions, learning, personality, and social interaction. (3 contact hours) IAI: S6 900

## PSY-104-(3)

## Life-Span Developmental Psychology

Study the neurological, physical, cognitive, social, and emotional development of humans from conception through childhood, adolescence, adulthood, and old age. Emphasizes normal development stages and patterns of adjustment to differing lifetime demands. The theories and principles of human development are examined in light of contemporary research. (3 contact hours) IAI: S6 902

## PSY-105-(3)

## Child Psychology

This course concerns the study of human development from conception through adolescence. Includes research methods and developmental theories. Addresses all the major areas of development (physical, social, emotional and cognitive) and the interaction among these areas. (3 contact hours) IAI: S6 903

## PSY-106-(3)

## Adolescent Psychology

Study adolescent development with emphasis on biological, cognitive, interpersonal, and psychological tasks within socially and culturally defined contexts such as the family, peer group, work, and school. Psychological, cultural and historical perspectives are examined within the framework of current research. (3 contact hours) IAI: S6 904

## PSY-110-(1)

## Group Dynamics

Study theory and experience in the functioning of groups. Smallgroup leadership, group-work theory, group formation, group process, group roles, communication, group cooperation, and individual functioning within a group are covered. (2 contact hours)

## PSY-201-(3)

## Industrial/Organizational Psychology

Students will learn principles and techniques of psychology applied to activities and problems in business and industry. This course emphasizes interpersonal and intergroup relationships for employee morale and motivation. (3 contact hours)

## PSY-202-(3)

## Social Psychology

Prerequisite: PSY-101
Study basic psychological determinants of behavior in interpersonal relations and their influence on social interaction, attitudes, values, and social events. Investigates influence of culture on the development of the personality. (3 contact hours) IAI: S8 900

## PSY-205-(3)

## Abnormal Psychology

Prerequisite: PSY-101 or PSY-105
This course explores cause, description and treatment of psychological disorders. Emphasis is on various forms of neuroses, psychoses, personality disorders, psychosomatic reactions, and organic brain syndrome. (3 contact hours)

## PSY-210-(3)

Adult Psychology
Prerequisite: PSY-101 or PSY-105
Examines the development of the normal adult from young adulthood through old age. Concludes with topics of death and dying. Includes changes in biological, cognitive, social and personality characteristics, work and leisure, relationships, and family. (3 contact hours) IAI: S6 905

## PSY-211-(3)

## Human Sexuality

Studies psychological aspects of sexuality. Includes physiological development and functioning, gender identity and sex roles, sociocultural influences, and values in decision making. Covers roles of motivation, emotion and communication in sexual behavior and relationships. (3 contact hours)

## PSY-212-(3)

## Theories of Personality

Prerequisite: PSY-101
This course is designed to provide students with a comparative analysis of personality theory, research and assessment. Course will address consistencies in people's thoughts, feelings, and behavior over time and across situations. Topics will include methods of personality research and an overview of the primary theoretical perspectives in the field: Trait, Psychoanalytical, Humanistic, Social Learning/Behavioral, Cognitive and CrossCultural. (3 contact hours) IAI: PSY 907

## PSY-215-(3)

## Educational Psychology

Prerequisite: PSY-101, PSY-105 or PSY-104
This course concerns psychological principles underlying educational practice. Theories concerning cognitive and psychological development, human learning, and motivation are studied with emphasis on application for instruction, including assessment. Emphasis will also be placed on learner-centered instruction and diversity. (3 contact hours)

## PSY-220-(3)

## Psychology of Women

Psychological approach to the study of women. Includes female psychobiology, sex-role acquisition, personality theories, socialization processes, and contemporary psychological issues. (3 contact hours)

## RAD——Radiologic Technology

RAD-127-(1)

## Introduction to Radiologic Technology

Prerequisite: Admission to the program or consent of instructor Introduces discovery and early history of X-rays and their use in medicine. Covers health care delivery system, medical ethics, and professional societies and organizations for radiologic technologists. Accreditation, certification, licensure, and their impact on socioeconomics are explored. (1 contact hour)

RAD-129-(1)
Radiation Protection
Prerequisite: RAD-130;
Corequisite: Registration in RAD-132, RAD-138
Introduces radiation protection, methods of protection for patient and technologist, permissible dosage and calculation for the technologist, and safe operation of X-ray equipment. (1 contact hour)

RAD-130-(3)

## Principles of Radiographic Exposure

Prerequisite: Admission to the program, BIO-115 and MRT-110 or consent of instructor
Corequisite: Registration in RAD-127, RAD-131, RAD-136
Learn theory of X -ray exposure to obtain proper diagnostic information. Performance of laboratory experiments using student Xray training units is included. Fee is required. (4 contact hours)

## RAD-131-(3)

## Principles of Radiographic Positioning I

Prerequisite: Admission to program, BIO-115 and MRT-110 or consent of instructor
Corequisite: Registration in RAD-127, RAD-130, RAD-136
Covers proper positions for radiographs of the osseous system and evaluation of radiographs. Technique, positioning and anatomical appearance on radiographs are emphasized. Students will perform radiographic positioning. Fee is required. (4 contact hours)

RAD-132-(3)

## Principles of Radiographic Positioning II

Prerequisite: RAD-131
Corequisite: Registration or credit in RAD-129 and RAD-138
Learn proper position for radiographs of the skull, and respiratory, urinary and alimentary systems. Evaluate radiographs. Technique, positioning and anatomical appearance on the radiograph are covered. Fee is required. (4 contact hours)

RAD-133-(2)

## Principles of Radiologic Technology

Prerequisite: RAD-130, RAD-131, RAD-132
Corequisite: Registration in RAD-139, RAD-140, RAD-141
Lectures in topography and radiological landmarks are included. Radiographs are evaluated. Technique, positioning and anatomical appearance on the radiograph are studied. (2 contact hours)

RAD-136-(3)

## Radiology Internship I

Prerequisite: BIO-180, Admission to Radiologic Technology Program or consent of instructor. Corequisite: RAD-127, RAD-130, RAD-131
Students will gain hospital experience in radiographic rooms correlating principles taught in RAD-130 and RAD-131. This course introduces the radiology department and initiates phases of patient rapport. Requires working with patients and using Xray equipment. All instruction for this course will occur in a hospital setting and be directly supervised by hospital personnel. Fee is required (16 contact hours)

## RAD-138-(2)

Radiology Internship II

## Prerequisite: RAD-131

Corequisite: RAD-132
Correlate and implement principles of radiographic technique and positioning previously taught in RAD-130, RAD-131 and the corequisites of this course. Students will continue learning new skills based on RAD-136. Requires working with patients and using X-ray equipment. All instruction for this course will occur in a hospital setting and be directly supervised by hospital personnel. Fee is required. (16 contact hours)

## RAD-139-(2)

## Clinical Education III

Prerequisite: RAD-138
Corequisite: Registration in RAD-133, RAD-140, RAD-141
Gain experience in hospital radiographic rooms correlating and implementing principles and procedures taught in the first year of the program. Requires working with patients and using X-ray equipment. Fee is required. ( 24 contact hours)

## RAD-140-(1)

## Radiographic Processing

Prerequisite: RAD-131, RAD-132
Corequisite: Registration in RAD-133, RAD-139, RAD-141
Covers principles of radiographic processing. Includes automatic and manual systems, and understanding of darkroom chemistry. Basic principles of processor quality control and sensitometry are examined. Fee is required. (1 contact hour)

## RAD-141-(1)

## Pediatric Radiography

Prerequisite: RAD-131, RAD-132
Corequisite: Registration in RAD-133, RAD-139, RAD-140
Gives an overview of the psychological and physiological considerations in pediatric radiography. Specific procedures and the radiation protection considerations of pediatric radiography are explored. (1 contact hour)

## RAD-145-(3)

## Radiology Internship III

Corequisite: RAD-132, RAD-140, RAD-141
Students will gain hospital experience in radiographic rooms by correlating principles taught in RAD-132 and RAD-133. Students will build on skills required in the radiologic department and for patient rapport. Requires working with patients and using X-ray equipment. All instruction for this course will occur in a hospital setting and be directly supervised by hospital personnel. Fee is required. (16 contact hours)

## RAD-240-(4)

## Radiologic Physics

Prerequisite: Second-year classification in Radiologic Technology program
Corequisite: Registration in RAD-241, RAD-245
Extends knowledge of X-ray machines to facilitate proper radiographic exposure techniques. Explores fundamentals of atomic structure, electricity and magnetism. Detailed study of X-rays, Xray circuit, and interaction of radiation and matter are covered. Includes principles of protection from radiation. Fee is required. ( 5 contact hours)

RAD-241-(3)
Advanced Radiologic Technology I
Prerequisite: Second-year classification in Radiologic Technology program
Corequisite: Registration in RAD-240, RAD-245
Includes proper positions and techniques for radiographs of vascular and nervous systems. Discusses other imaging procedures such as thermography, xeroradiography, ultrasonography, and computerized axial tomography. Nursing procedures, including sterile and aseptic techniques, are covered. (3 contact hours)

## RAD-243-(1)

Application of Radiology to Pathology
Prerequisite: RAD-145
Examines surgical and medical diseases. Discusses pathology and relates its effect on radiological procedure. (1 contact hour)

RAD-244-(2)
Radiobiology
Prerequisite: Second-year classification in Radiologic Technology program
Corequisite: Registration in RAD-243, RAD-246, RAD-248 and RAD-250
Studies effects of ionizing radiation in biological systems. Includes radiation units, interactions of radiation and matter, response to irradiation, radiation syndromes, and somatic and genetic effects. Fee is required. (2 contact hours)

## RAD-245-(5)

## Advanced Radiology Internship I

Prerequisite: RAD-145.
Students will gain experience in radiographic rooms. Includes further development of skills learned in RAD-136, RAD-138, RAD-139, and correlating of principles taught in RAD-241. Requires working with patients and using sophisticated electronic equipment. All instruction for this course will occur in a clinical setting and be directly supervised by clinical personnel. Fee is required. (24 contact hours)
RAD-246-(5)
Advanced Radiology Internship II
Prerequisite: RAD-245
Corequisite: RAD-248, RAD-250
Students will gain experience in all areas of radiology. Develop skills acquired in previous clinical education courses. Prepare for employment upon graduation. All instruction for this course will occur in a clinical setting and be directly supervised by clinical personnel. Fee is required. (24 contact hours)

## RAD-247-(2)

Advanced Clinical Education III
Prerequisite: RAD-246
Gain experience in all areas of radiology. Develop skills acquired in previous clinical education courses. Prepare for employment upon graduation. Fee is required. (34 contact hours)
RAD-248-(1)
Departmental Adminstration
Corequisite: Registration or credit in RAD-246
Administration and personnel management in a radiologic department are studied. (1 contact hour)

## RAD-250-(3)

Radiographic Equipment and Imaging Modalities
Prerequisite: Second-year classification in Radiologic Technology program
Corequisite: Registration in RAD-243, RAD-244, RAD-246 and RAD-248
Study functions in application of radiographic equipment and imaging modalities, quality control equipment and techniques. Includes radiation detection equipment and an overview of imaging modalities not using ionizing radiation. Fee is required. (4 contact hours)

## RDG-Reading

## RDG-041-(4)

## Approaches to College Reading

Prerequisite: Appropriate score on placement test
Designed to give the student a solid foundation in the basics of college reading. Primary focus will be on appropriate thinking, reading and writing strategies essential for improving comprehension. Credit hours for this course can be applied to full- or part-time student status, but will not count toward graduation credits unless specified in your certificate or degree program. (4 contact hours)

## RDG-071-(3)

## Techniques for Textbook Reading

Prerequisite: Grade of "C" or better in RDG 041 or appropriate score on placement test
Development of thinking, reading and writing techniques necessary for comprehension of college textbooks. Emphasizes planning, organizing, integrating, and evaluating reading strategies. Credit hours for this course can be applied to full- or part-time student status, but will not count toward graduation credits unless specified in your certificate or degree program. (3 contact hours)
RDG-091—(3)

## Critical Reading

Prerequisite: Grade of "C" or better in RDG 071 or appropriate score on placement test
Refines and expands the critical, higher order thinking strategies necessary for the interpretation and evaluation of reading content. Credit hours for this course can be applied to full- or parttime student status, but will not count toward graduation credits unless specified in your certificate or degree program. (3 contact hours)

## REC-Recreation Management

## REC-101-(3)

## Recreation and Wellness Professions

This course reviews the history, development and community utilization of recreation and wellness professions. Structures, purposes, and interrelationships of these professions are covered. Trends and career opportunities in recreation and wellness professions are explored. The content is delivered through lecture, group discussion, self-assessment, portfolio, academic master plan, and career search project. (3 contact hours)

## REC-102-(3)

## Older Adult Recreation and Wellness

This course will focus on theoretical and practical issues encountered in serving the specific population of older adults in a variety of recreation and health fitness settings. Topics addressed include attitudes and prejudices toward aging, societal norms related to aging, physical differences in normal and abnormal aging, aging and mental health issues, the dynamics of dementia, and issues related to death and dying. (3 contact hours)
REC-120-(3)

## Recreation Programming

Introduces the student to the role of the recreation leader and programmer. Emphasizes responsibilities, skills and resources necessary to planning successful recreation and leisure programs. Fee is required. (4 contact hours)

## REC-124-(3)

## Facility Management

Study the philosophies, principles, methods, techniques, and skills needed to effectively operate and maintain leisure areas and facilities. (3 contact hours)

## REC-180-(3)

## Perceptual Motor Development

Participation in a variety of K-6 physical education activities are included. Teaching methods are stressed, with emphasis on perceptual motor development for early childhood students. Fee is required. (4 contact hours)

## REC-182-(3)

## Recreation for Special Populations

This methods class introduces the skills, knowledge and competencies necessary for planning, organizing, conducting, and evaluating recreational programs for special populations. Includes hands-on experience teaching various disability groups.
(4 contact hours)

## REC-201-(3)

## Applied Leadership Essentials

This course covers basic functions of leadership theory, including dynamics, skills and case studies. In-class simulations, team development exercises and self-development are covered.
(4 contact hours)

## REC-205-(2)

## Professional Issues

Covers critical trends and issues, the role of the leisure professional in the contemporary setting, funding ethics, and legal responsibilities. (2 contact hours)

## REC-233-(3)

## Recreation Management Practicum

Prerequisite: Consent of practicum coordinator
Corequisite: Registration in REC-237
Includes supervised practical exposure and involvement in the recreation management field. (15 contact hours)

REC-237-(1)

## Recreation Management Seminar

Corequisite: Registration or credit in REC-233
Includes discussion of supervised field service experience in recreation management practicum. (1 contact hour)

## RES—Respiratory Therapy

## RES-101-(3)

## Foundations of Respiratory Care

Prerequisite: Admission to the Respiratory Therapy Program Corequisite: RES-102 and RES-103
This is a lecture course providing an introduction to respiratory care and governing agencies. There is an emphasis on professionalism, ethics, physical science principles, cardiopulmonary anatomy and physiology, patient care, and concepts of illness. Fee is required. (3 contact hours)

## RES-102-(5)

## Fundamentals of Medical Gas Therapy

Prerequisite: Admission to the Respiratory Therapy Program Corequisite: RES-101 and RES-103
This is a lecture and laboratory course that examines rationale, indications, hazards, and safe administration of oxygen therapy and various medical gas therapies, theory and application and regulation of gas flow, cylinders, regulators, and flowmeters, as well as patient isolation techniques and sterilization of respiratory therapy equipment. The indications and use of pulse oximetry and oxygen analyzers also are studied. This course will also introduce the etiology, diagnosis, pathology, symptoms, and treatment of pulmonary diseases. Fee is required. (7 contact hours)

## RES-103-(3)

Pharmacology for Respiratory Care
Prerequisite: Admission to the Respiratory Therapy Program Corequisite: RES-101 and RES-102
This course is a study of drugs affecting primarily the respiratory, circulatory, nervous and renal systems. Categories of drugs discussed include bronchodilators, corticosteroids, nonsteroidal antiasthma agents, mucokinetics, surfactants, xanthines, central nervous stimulants and depressants, antidysrhythmics, antithrombotics, diuretics, antihistamines, vasopressors, antibiotics and a brief review or neonatal and pediatric aerosolized therapy. The sympathetic and parasympathetic nervous system will also be discussed. Drug calculations will also be covered. Fee is required. (3 contact hours)

## RES-104-(4)

## Airway Care and Gas Exchange

Prerequisite: RES-101
Corequisite: RES-105, RES-106 and RES-154
This course is a lecture course which presents advanced concepts in the anatomy and physiology of the cardiopulmonary system, the indications and hazards of artificial airways, emergency airway care, and life support techniques in respiratory and cardiac failure. The study includes theory and equipment demonstrations. The course also covers acid-base balance and a comprehensive study of blood gases, renal system anatomy, and physiology. Fee is required. (4 contact hours)

## RES-105-(5)

## Respiratory Therapeutic Modalities

Prerequisite: RES-101
Corequisite: RES-104, RES-106 and RES-154
This is a lecture and laboratory course that studies the application of various forms of medication, aerosol therapy, hyperinflation therapy, and special procedures used in the practice of respiratory care. Indications and use of non-invasive monitors and pulmonary clearance techniques are presented. Advanced assessment of etiology, diagnosis, pathology, symptoms, and treatment of various pulmonary and related disease entities and therapeutic medical gases and pulmonary function are discussed. Fee is required. (7 contact hours)

## RES-106-(3)

## Patient and Ventilator Management

Prerequisite: RES-101
Corequisite: RES-104, RES-105 and RES-154
This is a lecture course providing in-depth study of the operational principles, application, physiological effects, and management of ventilators. Emphasis is placed on the appropriate management of patients requiring mechanical ventilation. Fee is required. (3 contact hours)

## RES-107-(2)

## Managing the Critically III Patient

Prerequisite: RES-104
Corequisite: RES-157
This is a lecture course which provides a study of cardiac and cardiovascular monitoring, advanced cardiac life support protocols, and advanced pharmacology involved in managing the critically ill patient. Fee is required. (2 contact hours)

## RES-137-(1)

## Microorganisms and Disease Prevention

Prerequisite: Approved admission to Respiratory Therapy Program
This orientation to medical microbiology introduces organisms according to type, biological classifications, distribution activity, and classifications. Includes morphology and basic physiology of bacterial cells, bacterial growth requirements, cell reproduction, common pathogenic organisms, diseases they cause, and culturing techniques. (1 contact hour)

## RES-141-(7)

## Respiratory Therapy Procedures I

Prerequisite: Approved admission to Respiratory Therapy Program
Includes basic theory and procedures of respiratory therapy. Orientation to equipment is given. Emphasizes anatomy and physiology of respiratory and cardiovascular systems. Basic science of equipment operation and procedures such as oxygen administration, IPPB and resuscitation are examined. Fee is required. (9 contact hours)

RES-142-(7)
Respiratory Therapy Procedures II

## Prerequisite: RES-141

Corequisite: Registration or credit in RES-154
Presents acid-base balance, cardiopulmonary diseases, pulmonary functions, and pharmacology. Discusses and demonstrates intubation, chest physiotherapy and sterilization. Fee is required. (9 contact hours)

## RES-145-(2)

## Respiratory Therapy Patient Care

Corequisite: Registration or credit in RES-141
This introductory lecture hospital course provides clinical skills necessary to function in the hospital environment. Emphasizes assessment, patient therapy modalities and evaluation skills and techniques. ( 3.5 contact hours)

## RES-154-(1)

## Clinical Practice I

Prerequisite: RES-101
Corequisite: RES-104, RES-105, RES-106
This course provides practical experience conducted at a hospital affiliated with the respiratory therapy program under the direct supervision of a respiratory therapist for 8 hours a week. Emphasis is on providing care to non-critically ill patients. Fee is required. (8 contact hours)

## RES-157-(1)

## Respiratory Clinical Practice II

Prerequisite: RES-154
Corequisite: RES-107
This course is practical experience conducted at a hospital affiliated with the respiratory therapy program under the direct supervision of a respiratory therapist for 16 hours per week. Emphasis is on increasing skill level and critical thinking skills developed in Respiratory Clinical Practice I, time management and prioritizing respiratory care to non-critically ill patients, followed by an introduction to critical care respiratory therapy. Fee is required. ( 10 contact hours per week)

## RES-158-(2)

## Advanced Physiology and Clinical Applications

Prerequisite: RES-142
Corequisite: Registration or credit in RES-157
Study respiration and metabolism, breathing mechanics, pulmonary circulation, diffusion, and blood gas transport. Ventilation-perfusion relationships, pH equilibrium, pulmonary function, and neurogenesis of respiration are covered. Fee is required. 10 weeks (4 contact hours)

RES-201-(3)
Neonatal/Advanced Respiratory Care
Prerequisite: RES-107
Corequisite: RES-250
This is a lecture course providing in-depth study of neonatal and pediatric anatomy and physiology with an emphasis on respiratory therapies for newborns and pediatric patients with cardiopulmonary disorders. Advanced management of patients requiring mechanical ventilation is also addressed. Ventilator waveforms, current concepts in mechanical ventilation such as high frequency ventilation and alternative and home care therapies are explored. Fee is required. (3 contact hours)

## RES-202-(3)

## Respiratory Care Capstone

Prerequisite: RES-201
Corequisite: RES-251
This course is designed to prepare students to take the National Board for Respiratory Care (NBRC) Certified Respiratory Therapist (CRT) and Registered Respiratory Therapist (RRT) examinations through discussion, case studies, CDs, computer software and Mock Written Registry Respiratory Therapy (WRRT Examinations). The primary goal of this course is to focus on the complex subjects of the CRT and RRT content outline. Therefore, to enhance performance of the Mock WRRT Examination, outside resources must be utilized (i.e. computer Sims and exam matrix). Pediatric Advanced Life Support training and certification is also included. Fee is required. (3 contact hours)

## RES-200-(1)

## EKG Application and Theory

Prerequisite: Current enrollment in or graduation from a health career program accredited by a college, recognized agency or sponsor
This course is designed to provide the health care professional with a basic understanding of electrocardiography theory and application. (1.5 contact hours)

## RES-250-(2)

Respiratory Clinical Practice III
Prerequisite: RES-157
Corequisite: RES-201
This course provides students with practical experience conducted at a hospital affiliated with the respiratory therapy program under direct supervision of a respiratory therapist for 16 hours per week. Emphasis is on increasing skill level, critical thinking skills and cognitive abilities in ventilator management for the critically ill patient developed in Respiratory Clinical Practice II. This course will also include an introduction to neonatal and pediatric care with cardiopulmonary disease. Fee is required (16 contact hours).

## RES-251-(4)

Respiratory Clinical Practice IV
Prerequisite: RES-250
Corequisite: RES-202
This course provides students with a clinical experience conducted as a hospital affiliated with the respiratory therapy program under supervision of a respiratory therapist. This is the last clinical course in the Respiratory Therapy A.A.S. degree program and will prepare the student to enter the workforce. Emphasis is on increasing skill level, critical thinking skills and cognitive abilities consistent with the entry level into the profession. Advanced ventilator management of the critically ill adult and neonatal patient will be emphasized. Emphasis is on increasing skill level, critical thinking skills and cognitive abilities in ventilator management for the critically ill patient developed in Respiratory Clinical Practice III (REs-250). Fee is required. (24 contact hours)

## RES-254-(3)

Respiratory Therapy Procedures III
Prerequisite: RES-157, RES-158
Corequisite: Registration in RES-250
Cardiopulmonary anatomy; physiology and mechanisms; gas transport mechanisms; effect of altitude, exercise and artificial atmospheres on function; pediatric considerations; applications of pulmonary function testing; and manifestations of pulmonary and cardiopulmonary disease are studied. Fee is required. (3 contact hours)

## RES-255-(3)

Respiratory Therapy Procedures IV
Prerequisite: RES-250, RES-254
Corequisite: Registration in RES-251
Presents clinical, radiologic and laboratory assessment of the patient. Explore management of ventilatory respiratory failure and airway obstruction. Assess etiology, diagnosis, pathology, symptoms, and treatment of various pulmonary and related disease entities. Fee is required. (3 contact hours)

## RTM—Restaurant/Hotel Management and Culinary Arts

## RTM-100-(2)

## Food Service Sanitation

Studies the courses and prevention of food-born illness. Stresses food service worker's responsibilities in protecting the public health. Course meets the educational requirements for the Illinois Department of Public Health (IDPH) and the Educational Foundation of the National Restaurant Association (formerly NIFI) Certification. (2 contact hours)

## RTM-101-(3)

## Introduction to Hospitality Industry

Introduces the history, organization, systems, problems, and career opportunities in the hospitality industry, including customer and personnel relations, current laws and trends, basic cost control techniques, and food management. Reviews the organization of hotel, and food and beverage operations. (3 contact hours)

## RTM-102-(4)

## Quantity Food Production I

Corequisite: Registration or credit in RTM-100
Introduces basic skills and knowledge to develop a strong foundation within culinary arts management. Examines guidelines used in operations management, including quality control, food handling, preparation, and production. The American Culinary Federation guidelines have been used for this course. This course is a part of the National Restaurant Association's Educational Foundation Management Diploma Program. Fee is required. (7 contact hours)

## RTM-202-(4)

## Quantity Food Production II

Prerequisite: RTM-102
Designed for students who have proficiency in all basic skills and knowledge of culinary arts management. Emphasizes intermediate methods and techniques of culinary arts, with a concentration on regional American cuisine, meat and seafood cookery and fabrication, and the food production system. The American Culinary Federation guidelines have been used for this course. This course is a part of the National Restaurant Association's Educational Foundation Management Diploma Program. Fee is required. (7 contact hours)

## RTM-203-(4)

## Garde Manger

## Prerequisite: RTM-202 or consent of instructor

Master the skills of garde manger, which is the artistic presentation of food. Learn the concepts of garde manger and buffet management in both a classroom and laboratory environment. Through participation in hands-on laboratory experiences, students study professional plate presentations, displays and show pieces. The American Culinary Federation guidelines have been used as a standard for this course. Fee is required. (7 contact hours)

## RTM-204-(4)

## Quantity Food Production III

Prerequisite: RTM-102
This course is recommended for students who have attained an intermediate level of skill and knowledge in culinary arts management. Advanced methods and techniques will be taught with an emphasis on international cuisine. Examine various cultures and their traditional food habits to develop a better understanding of the many cultures in America, and how these cultures and cuisines have influenced American cuisine and the hospitality industry today. Fee is required. (7 contact hours)

## RTM-205-(3)

## Beverage Management

An introduction to the principles of beverage management. Nonalcoholic beverages as well as wine, spirits and beers are studied. (4 contact hours)

## RTM-206-(3)

## Menu Writing and Marketing

Introduces menu writing and developing marketing strategies for hotels, restaurants, clubs, and resorts. (3 contact hours)

## RTM-207-(3)

## Food, Beverage and Equipment Purchasing

Prerequisite: MTH-090 or appropriate score on math placement test
Introduces food, beverage and equipment purchasing for a hotel or restaurant. (3 contact hours)

## RTM-208-(3)

## Design and Maintenance of Food Service Facilities

Principles of layout, design and maintenance for a hotel, restaurant or commercial kitchen are examined. (3 contact hours)

## RTM-209—(4)

## Baking/Pastry I

Corequisite: Registration or credit in RTM-100
Develop skills and knowledge essential in baking. Includes basic principles in the baking process, and ingredient standards and usage. Covers techniques in mixing and preparation of professional finished products. Studies yeast dough products such as bread and rolls, sweet yeast dough products, quick breads and batters, as well as pies and tarts. The American Culinary Federation guidelines have been used for this course. Fee is required. (7 contact hours)

## RTM-210-(3)

## Nutrition for Food Service Managers

Details the fundamentals of nutrients, their sources and their functions, the U.S. recommended dietary allowances (RDA), and the U.S. dietary guidelines are presented in detail, as well as menus that comply with them. Special diets required during pregnancy, adolescence and adulthood, as well as for athletes and vegetarians, are presented. Prepares food service managers to accommodate the consumer's increasing awareness of nutrition. (3 contact hours)
RTM-211—(4)

## Baking/Pastry II

Prerequisite: RTM-209 or consent of instructor
The mastery of skills and knowledge in advanced baking and pastries. Includes specialty breads, pastries, classic desserts, marzipan, chocolate work, cocoa printing, advanced decorating techniques, and showpieces. The American Culinary Federation guidelines have been used for this course. Fee is required. (7 contact hours)

## RTM-220-(3)

## Concepts of Hospitality Cost Control

Prerequisite: MTH-090 or appropriate score on math placement test
Explores how to maximize hospitality profitability by controlling costs. Cost-control techniques and procedures in food, beverage and hotel operations are covered. Standard hospitality accounting practices, financial statements, budgets, and financial planning are covered. (3 contact hours)

## RTM-222—(3)

## Supervisory Housekeeping

Overviews the fundamentals of housekeeping management. Describes the management functions, tools and practices required in today's lodging and institutional housekeeping departments. (3 contact hours)

RTM-223-(3)

## Convention Management and Service

Defines the scope and various segments of the convention market, explains what is required to meet individual needs, and explores methods and techniques that lead to better service. (3 contact hours)

## RTM-225-(3)

## Banquet and Specialty Services

An orientation to the field of catering, this course includes all of the activities associated with the sales, organization, food preparation, and service of catered functions, banquets and other specialty functions, including hotel room service. (3 contact hours)

## RTM-227-(3)

## Front Office Procedures

Presents a systematic approach to front office procedures by detailing the flow of business through a hotel, beginning with the reservation process and ending with check-out and settlement. Examines the various elements of effective front office management, paying particular attention to planning and evaluating front office operations and to personnel management. Front office procedures and management are placed within the context of the overall operation of a hotel. (3 contact hours)

## RTM-230-(1)

## Hospitality Portfolio

Prerequisite: consent of instructor
A 'portfolio' approach to the internship/field experience component required in all professions, this course is based on the workbased skills outlined in the Secretary Commission on Acquiring Necessary Skills (SCANS) report and the National Skill Standards Board of the Department of Labor. Students lacking work-based skills will have planned and supervised occupational work experience and visits to multiple work sites in the community. Visits are organized to include those of several management levels in a variety of businesses. Visits may be brief tours or a several-day assignment to "job shadow" a manager or work as a cook, server, front desk agent, etc. Students should meet with the program coordinator immediately upon enrolling in the Restaurant/ Hotel Management Program to plan their portfolio work. (7 contact hours)

## RTM-231-(3)

## Hospitality Supervision

Corequisite: Registration or credit in RTM-101
Prepares the student for the transition from employee to supervisor, including how to handle difficult employees, implement motivational techniques and conduct performance evaluations. (3 contact hours)

## RTM-233-(3) <br> Hospitality Internship

Prerequisite: Consent of instructor
Provides planned and supervised occupational field experience as it relates to the student's occupational program. Student will work at least 15 hours a week over a two-semester period. (15 contact hours)

## SSC-Social Science

## SSC-100-(3)

## Contemporary Society

Analyze fundamental social concepts relevant to modern society. Emphasis is on emerging problems. (3 contact hours)

## SSC-101-(3)

## Social Science I

This interdisciplinary approach covers current, crucial issues in the social sciences using anthropology, economics, history, political science, and sociology. (3 contact hours) IAI: S9 900

## SSC-102-(3)

## Social Science II

Selected internal political, economic and social problems of foreign nations from anthropology, economics, history, political science, and sociology perspectives are examined. (3 contact hours)

## SSC-299-(3)

## Topics in Social Science

Major issues currently facing the United States and other nations of the world are explored. Considers socioeconomic, political and other perspectives related to these global topics. (3 contact hours)

## SLP-Security Services

## SLP-100-(1)

## Unarmed Security Guard Training

Intensive instruction in the technical aspects of private security employment. Emphasis is on legal rules, security techniques and processes, life safety, and public relations. Successful completion satisfies the 20 -hour basic training requirement for unarmed private security certification under Illinois revised statutes. (1 contact hour)

## SLP-101-(3)

## Introduction to Security

Covers the historical, philosophical and legal basis for security. Includes the role of security in society; the concept of professionalism; and the administrative, personnel and physical aspects of the field. (3 contact hours)

## SLP-103-(1)

## Armed Security Guard Training

Prerequisite: SLP-100
This course provides basic instruction in the use and handling of firearms related to private security employment. Emphasis is placed on legal issues, safety rules, and supervised practice on the range. Successful completion of this course and SLP-100 satisfies the 40-hour firearms training requirement for armed private security certification under Chapter 111, Paragraph 2678 - Illinois Revised Statutes. Fee is required. (1.5 contact hours)

## SLP-104-(2)

## Firearms I

Presents the physical, legal and moral hazards associated with the misuse of firearms. Emphasizes general and specific safety rules for handling weapons. Includes supervised practice to develop the student's ability to use firearms effectively and safely. Successful completion satisfies the 40-hour mandatory firearms training course for peace officers. Fee is required. ( 2.5 contact hours)

## SLP-106-(3)

## Crisis Management

Emphasizes interpersonal skills in protective services conflict situations. Includes interpersonal communications, and understanding and handling crisis intervention situations. Reviews job stress management. (3 contact hours)

## SLP-107-(3)

## Security Procedures

Explores basic security methods and techniques used to carry out prevention, protection, enforcement, inspection, detection, investigation, emergency service, deterrence, reporting, and general services functions. Emphasis is placed on the specific role each function has in maintaining a desired level of security. (3 contact hours)

## SLP-108-(3)

## Applied Security Operations

Examines methods, techniques and means necessary to maintain a security operations environment. Emphasis is on physical, information and personnel security. Includes computer security. (3 contact hours)

## SLP-109-(1)

## Private Alarm Training

This course provides basic instruction in private alarm fundamentals. Emphasis is on basic electronics, equipment and wiring requirements, video detection and alarm systems, fire detection and alarm systems, specialty systems, perimeter detection, and motion detection systems. Successful completion satisfies the 20-hour basic training requirement for private alarm contractor agency employees under the Illinois Private Detective and Private Security Act. (1 contact hour)

## SLP-114-(3) <br> Hospital Security

Techniques and specialized procedures for effective security in a hospital setting are examined. (3 contact hours)

## SLP-201-(3)

## Specialized Security Problems

Studies the application of protective services principles to specific problems. Emphasis is on loss prevention management techniques. Includes crime prevention, disaster and emergency planning, and protection of executives. (3 contact hours)

## SLP-206-(3)

## Security and the Law

Provides instruction in the laws and regulations which govern the conduct of private security. Includes administrative law, constitutional law, contract law, criminal law, liability claims, tort law, and related statutory provisions. Attention is given to specific legislation and court decisions, and fundamentals of legal research. (3 contact hours)

## SLP-210-(1)

## Special Topics in Security

Students work with instructor individually or in small groups to develop special projects designed to focus on specific private protective services topics. (1 contact hour)
This course may be taken four times for credit.

## SLP-219-(2)

## Contemporary Issues: Security

Intended primarily for students interested in protective services issues, the course examines basic policy problems: legislation, professionalism, education, training, literature and research, procedures, administration, and social problems. (2 contact hours)
This course may be taken four times for credit.

## SLP-233-(3)

## Internship

Prerequisite: 12 credit hours completed or concurrent in major, including SLP-100 and SLP-101
Corequisite: Registration in SLP-237
Supervised field work experience at an approved protective services training site. (15 contact hours)

## SLP-237-(1)

## Seminar

Corequisite: Registration or credit in SLP-233
Discussion of various experiences and issues encountered during the supervised protective services field work experience. (1 contact hour)

## SOC-Sociology

## SOC-101-(3)

## General Sociology

Introduces basic sociological concepts and methods, social processes, social changes, and behavior. (3 contact hours) IAI: S7 900

## SOC-102-(3)

## Marriage and Family

Institutions and systems of kinship, marriage, family grouping, child rearing, and status placement are studied. (3 contact hours) IAI: S7 902

## SOC-103-(3)

## Sociology of Poverty

Examine common characteristics and adjustment patterns of groups in the lower socioeconomic strata of American society. (3 contact hours)

## SOC-201-(3)

## Sociology of Health

Prerequisite: SOC-101 or consent of instructor
Focuses on contemporary issues in health care. Examines physicians and other providers of service, the population receiving services and the organizational settings in which care is provided. Observations of health care facilities are included. (3 contact hours)
SOC-202-(3)
Aging in Contemporary Society
Focuses on the basic principles and theories of social gerontology: aging America, health status, retirement, family life, sexuality, political involvement, death and dying, and environment as the context of aging. (3 contact hours)

## SOC-204-(3)

## Sociology of Contemporary Social Problems

Prerequisite: SOC-101
Explore contemporary social problems in American society: crime and delinquency, family and generational problems, urban and rural problems, race discrimination in American life, sex and age discrimination, social deviance, health and medical care, and poverty. (3 contact hours) IAI: S7 901

## SOC-210-(3)

## Minority Groups

Analysis of racial, religious, ethnic, and other groups, examining persistence of group identity, intergroup relations, social movements, government policy, and related social problems. (3 contact hours) IAI: S7 903D

## SOC-215-(3)

## Sociology of Sex and Gender

This course is an examination of sex and gender issues in American culture and other cultures across time. The course will define both the concepts of sex and gender, and illustrate the differences between them. The course will focus on both macro and micro strategies for understanding human relationships and identity information. Students will develop an awareness of how basic social institutions such as family, education, religion, government, and the media shape our collective and individual concepts of gender. (3 contact hours) IAI: S7 904D

## SPA-Spanish

## SPA-101—(4)

## Spanish I

This beginning course includes oral and aural exercises to develop the ability to understand, speak and write Spanish. Essentials of grammar are stressed. (4 contact hours)
SPA-102-(4)
Spanish II
Prerequisite: SPA-101 or 2 years of high school Spanish
Grammar is further explored. Emphasis is on the culture of Spanish-speaking nations of the Western Hemisphere. (4 contact hours)

## SPA-105-(3)

## Career Spanish for Business

Designed for people in business who wish to develop oral communication skills. Emphasizes question-answer patterns, high frequency expressions, and key vocabulary in business travel and tourism, commerce and public relations. Note: SPA-105 is not designed to transfer to colleges or universities as part of a foreign language requirement. SPA-105 will generally transfer as an elective. (3 contact hours)

## SPA-106-(3)

## Career Spanish for Business II

Prerequisite: SPA-105 or consent of instructor
Emphasizes question-answer patterns, high-frequency expressions and key vocabulary in banking, advertising and real estate. Note: SPA-106 is not designed to transfer to colleges or universities as part of a foreign language requirement. SPA-106 will generally transfer as an elective. (3 contact hours)

## SPA-115-(3)

## Career Spanish for Health Care I

Designed for people in health professions who wish to develop oral communication skills. Emphasizes question-answer patterns, high-frequency expressions and key vocabulary in pediatrics, family planning and the emergency room. Note: SPA-115 is not designed to transfer to colleges or universities as part of a foreign language requirement, but will generally transfer as an elective. (3 contact hours)

## SPA-116-(3)

## Career Spanish for Health Care II

Prerequisite: SPA-115 or consent of instructor
Emphasizes question-answer patterns, high-frequency expressions and key vocabulary in cardiology, drug addiction, and laboratory procedures. Note: SPA-116 is not designed to transfer to colleges or universities as part of a foreign language requirement, but will generally transfer as an elective. (3 contact hours)

## SPA-125-(3)

## Career Spanish for Law Enforcement I

Designed for individuals in law enforcement who wish to develop oral communication skills. Emphasizes question-answer patterns, high-frequency expressions and key vocabulary in law enforcement. Note: SPA-125 is not designed to transfer to colleges or universities as part of a foreign language requirement, but will generally transfer as an elective. (3 contact hours)

SPA-126-(3)

## Career Spanish for Law Enforcement II

Prerequisite: SPA-125 or permission of instructor
A continuation of SPA-125 designed for individuals in law enforcement who wish to further develop oral communication skills. Emphasizes question-answer patterns, high-frequency expressions and key vocabulary in law enforcement. Note: SPA126 is not designed to transfer to colleges or universities as part of a foreign language requirement, but will generally transfer as an elective. (3 contact hours)

## SPA-201—(4)

## Spanish III

Prerequisite: SPA-102 or 3 years of high school Spanish
Review basic language skills conducted in Spanish language with an emphasis on conversation. Composition is included. Reading of advanced texts (novels) is included. (4 contact hours)

## SPA-202-(4)

## Spanish IV

Prerequisite: SPA-201 or 4 years of high school Spanish
Review language structure and interpretation of literary selections. Class is conducted in Spanish. Emphasis is on SpanishEuropean culture. (4 contact hours) IAI: H1 900

## SPA-205-(4)

## Conversational Spanish

Prerequisite: SPA-201 or 4 years of high school Spanish
Provides practice in speaking and understanding everyday Spanish. (4 contact hours)

## SPA-210-(3)

## Spanish Culture and Civilization

Prerequisite: SPA-202 or fluency in Spanish with consent of instructor
Study Spain's historical, intellectual and cultural heritage. Course is taught in Spanish. (3 contact hours)

## SPA-212-(3)

## Latin American Culture and Civilization

Prerequisite: SPA-202 or fluency in Spanish with consent of instructor
Studies Latin America's historical and cultural heritage, and the countries' concerns and realities. (3 contact hours)

## SPA-213-(3)

Introduction to Hispanic Literature
Prerequisite: SPA-202 or fluency in Spanish with consent of instructor
Survey literary movements, principal writers, and representative works of Spanish and Hispanic American literature. Emphasis is on the 20th century. This course is taught in Spanish. (3 contact hours) IAI: H3 916

## SWK—Social Work

## SWK-101-(3)

## Introduction to Social Work

Prerequisite: PSY-101 or SOC-101
The broad field of social welfare services, principal methods of social work intervention, selected social issues, and social work as a profession are covered. (3 contact hours)

## TDL-Transportation, Distribution and Logistics

## TDL-101-(3)

## Transportation and Logistics Overview

Prerequisite: IMS-101 or IMS-115 or consent of instructor.
This course is designed to help the learner understand the terminology and major functional areas of transportation, distribution, logistics. The student will be able to describe in detail the various modes of transportation and types of carriers, speak with authority on the basics of distribution operations, and be familiar with the role, impact and value of logistics operations in supply chain management. In addition, students will be able to determine their level of interest in the TDL industry in order to investigate careers in the industry and produce personal educational/career development portfolios to assist them in their search for a career in the industry. (3 contact hours)

## TDL-102-(3)

## Job Skills for Competitive Advantage

This course focuses on developing basic professional skills to maximize productivity in the workplace and increase an individual's competitive edge. Emphasis is placed on the student's ability to be prepared for the challenges of everyday situations in the workplace. Major topics include work ethic, responsibility and accountability, business etiquette, effective communication, teamwork, problem solving, diversity in the workplace, stress management, and life balance. (3 contact hours)

## TDL-103-(3)

## Transportation

This course studies the fundamental roles and importance of transportation in companies and the society. The course evaluates the complex environment in which transportation services are provided and explores strategies for adapting to a fast-paced and rapidly changing industry. Specific topics include overview of transportation, supply chain, the economy, traditional modes of transportation, special carriers, global transportation, economic operating characteristics of each mode, costing, pricing, carrier strategy and information management. (3 contact hours)

## TDL-104-(3)

## Introduction to Import/Export

This course focuses on the major factors of importing and exporting goods and services on a global scale. It includes an understanding of current terminology, regulations, analysis of and opportunities in international markets, basic principles of international financing, exchange rates, and other elements associated with the transportation and distribution operations to facilitate global trade. (3 contact hours)

TDL-105-(3)
Principles of Operations Management
This course provides a detailed study of operations management, emphasizing the achievement of the highest levels of service and product quality while keeping cost as low as possible. This course provides detailed operations management study. The major areas covered include integrated product development, integrated supply chain management, process and capacity planning and control, inventory planning, forecasting, just-intime philosophy, push vs. pull program, total quality management, and enterprise resource planning. (3 contact hours)

## TDL-106-(2)

## Cargo Security

Prerequisite: TDL-103
This course examines relevant facets of maritime, land, pipeline, and air transportation security-related systems and associated issues. It covers applicable legislation and the agencies tasked to oversee each mode of transportation. It also describes how to implement an appropriate program to enhance the security of a particular mode of transportation. (2 contact hours)

## THE-Theater

THE-105-(3)

## Theater Appreciation

Explores the basic elements of theater-the drama and production methods. Emphasizes the integration of all elements into a production, and the relationship between modern and historical ideas and methods. (3 contact hours) IAI: F1 907

THE-107-(3)

## Film Appreciation

Introduces film as an art form through viewing and analysis of significant motion pictures. Students will compare film to other art forms and learn to view films with greater understanding. (3 contact hours) IAI: F2 908
THE-110-(3)

## History of the Theatre

This historical view of the theater stresses its social and political role in society from ancient Greece to the present through the study of key playwrights, actors and acting styles, and production techniques and styles. (3 contact hours) IAI: F1 908

## THE-111-(3)

## History of Film

An international survey of the historical development of film, emphasizing a study of films and innovations in film production that have had significant influence on film as an art form. Fee is required. (3 contact hours) IAI: F2 909

THE-114-(3)

## Oral Interpretation of Literature

This course offers an introduction to the techniques of oral performance of prose and poetry. It includes the study and practice of analyzing works of literature in order to express the author's intended message through the voices of the characters. (4 contact hours)

## THE-115-(3)

## Acting 1

Develops the actor's instrument, including movement, voice production, improvisation, and fundamental characterization. (4 contact hours)
THE-116-(3)

## Acting II

Prerequisite: THE-115
Continues development of acting fundamentals introduced in Acting I, emphasizing an intensive approach to acting exercises, improvisation, monologues, and scene study. (4 contact hours)

## THE-125-(3)

## Stagecraft

Introduces safety procedures and basic techniques of scenery and property construction, tool use, scene painting, and backstage organization. Laboratory hours are mandatory. (4 contact hours)

THE-150-(3)

## Creative Dramatics

Covers the role of drama in primary and junior high school education. The scope, values and fundamental skills of drama and its relation to education of the child, with an emphasis on teaching rather than performing skills, are included. (3 contact hours)

## THR—Recreation Therapy

THR-150-(3)

## Recreation Therapy Techniques I

Covers the nature, and function of recreation as a therapeutic aid in the treatment of special populations. (3 contact hours)

THR-152-(3)

## Recreation Therapy Techniques II

Introduces activity programming methods, organization, presentation, and evaluation. (4 contact hours)

THR-233-(3)

## Recreation Therapy Practicum

Prerequisite: Consent of practicum coordinator
Corequisite: Registration in THR-237
Includes supervised practical exposure and involvement in the recreation therapy field. Fee is required. ( 15 contact hours)

THR-237-(1)
Recreation Therapy Seminar
Prerequisite: Consent of practicum coordinator
Corequisite: Registration in THR-233
Includes discussion of supervised field service experience in recreation therapy practicum. (1 contact hour)

## WLD—WeIding

## WLD-104-(2)

## Electric Welding Circuits

Explore theory and practical knowledge necessary to troubleshoot the welding circuit. Fee is required. (3 contact hours)

## WLD-105-(3)

## Reading Welding Blueprints

Prerequisite: MTH-090
Emphasizes basic interpretation of blueprints, welding symbols and basic sketching. (4 contact hours)

WLD-111—(3)

## Basic Arc/Gas Welding I

Covers basic understanding of the operation of oxy-acetylene welding and cutting, and shield metal arc welding. Fee is required. (5 contact hours)

## WLD-112-(3)

## Basic Arc/Gas Welding II

Corequisite: Registration or credit in WLD-111
Increase knowledge and gain intermediate skill in the operation of oxy-fuel welding and cutting, and shield metal arc welding. Fee is required. (5 contact hours)

## WLD-113-(3)

## Basic Metallurgy and Materials

Introduces types and use of industrial materials. The general classifications, properties, and industrial applications of materials are studied. (4 contact hours)

## WLD-121-(3)

## Advanced SMAW and Cutting I

Prerequisite: WLD-112
Gain instruction in shield metal arc welding in the flat, vertical and overhead position to meet industrial requirements for speed and quality. Fee is required. (5 contact hours)

## WLD-122-(3)

Advanced SMAW and Cutting II
Prerequisite: WLD-112
Corequisite: Registration or credit in WLD-121
Examine advanced techniques in out-of-position shield metal arc welding. Welding of transitional joints is stressed. Fee is required. (5 contact hours)
WLD-123-(3)
MIG, TIG and Brazing I
Prerequisite: WLD-112
Study soldering; brazing; braze welding; gas metal arc welding of aluminum and carbon steels; gas tungsten arc welding of aluminum, carbon and stainless steels; and flux cored arc welding of carbon steels. Fee is required. (5 contact hours)

## WLD-124-(3)

## MIG, TIG and Brazing II

Prerequisite: WLD-112
Corequisite: Registration or credit in WLD-123 or consent of instructor
Concentrates on brazing and braze welding. Practice gas metal arc welding in all positions on aluminum, stainless and mild steels. Includes instruction in gas tungsten arc welding on aluminum, stainless and mild steels in all positions. Theory and practice in gas metal arc welding, flux cored arc welding, gas tungsten arc welding, and oxy-fuel braze welding are covered. Fee is required. (5 contact hours)

## WLD-137-(2)

## Individual Welding Problems I

Prerequisite: Consent of instructor
The student prepares a written proposal identifying problems to be addressed and submits it to the instructor. Upon approval, the instructor informs the student of a class meeting time. The student must meet with the instructor prior to registering for the class. Preselected problems are available from the instructor. Fee is required. (4 contact hours)

## WLD-138-(2)

## Individual Welding Problems II

Prerequisite: Consent of instructor
Corequisite: Registration in WLD-137
The student prepares a written proposal identifying problems to be addressed and submits it to the instructor. Upon approval, the instructor informs the student of a class meeting time. The student must meet with the instructor prior to registering for class. Preselected problems are available from the instructor. Fee is required. (4 contact hours)

## WLD-140-(3)

## Basic Pipe Welding I

## Prerequisite: WLD-122

Corequisite: Registration in WLD-141
Welding of six-inch schedule 40 and 80 carbon steel pipe in a fixed position, using the shielded metal arc process to ASME code, is covered. Fee is required. (5 contact hours)

## WLD-141-(3)

## Basic Pipe Welding II

Prerequisite: WLD-124
Corequisite: Registration in WLD-140 or consent of instructor
This continuation of basic pipe welding allows students to perfect skills learned in WLD-140. Emphasis is on ASME code requirements for 6G welding of heavy wall carbon steel pipe with an open single Vee butt joint. Fee is required. (5 contact hours)

## WLD-150-(2)

## Basic Ornamental Welding

This course is an introduction to the basic metal joining techniques. Areas to be covered include shop safety and proper procedures for setting up and using oxy/acetylene torch, electric welders and metal finishing tools. There will be an explanation of basic metallurgy and the relevance to joining dissimilar metals. Students will learn how to use welding and forging techniques to make metal sculpture, ornamental ironwork and decorative hand-built metal pieces. (3 contact hours)

## WLD-160-(2)

## Visual Inspection of Welds

The most common non-destructive testing method is visual inspection. The student will visually inspect welds and identify weld size, acceptable weld profiles and surface weld discontinuity. The student will check welds for conformance and non-conformance with codes. (2 contact hours)

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[^0]:    ${ }^{1}$ Math requirements vary at four-year institutions.
    ${ }^{2}$ Foreign Language Requirement: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire foreign language sequence at one institution.
    ** Moraine Valley students should complete the two-course sequence prior to transfer.

[^1]:    A pre- or corequisite may be required for some courses.

[^2]:    ${ }^{1}$ Math requirements vary at four-year institutions.
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    ${ }^{3}$ Some four-year universities require completion of Calculus III and Physics III before students can begin physical chemistry, a third-year course.

[^4]:    Humanities and Fine Arts ${ }^{2}-9$ credits
    Choose three credits from ARB-202; FRE-202; GER-202,
    HUM-101, 102, 115, 120, 135 or 140 or 145; JPN-202; LIT-213,
    214, 215 or $216,217,218,219,220,221,222,223,224,225$,
    226, 227, 230; PHI-101, 111, 120, 125; SPA-202, 213
    Choose three credits from ART-110, 205, 206 or 208, 209;
    HUM-101, 102, 120, 135 or 140 or 145; MUS-106, 107;
    THE-105, 107, 110, 111
    Choose an additional three credits from any of the courses above.
    Social and Behavioral Sciences-9 credits
    ECO-101 Principles of Macroeconomics 3
    ECO-102 Principles of Microeconomics 3
    Select an additional three credits from
    ANT-201, 202, 210; GEO-101 or 102, 201; HIS-101,
    102, 201, 202, 210, 215, 220; PSC-103; 110, 115, 210,
    215, 225; PSY-101, 104, 105, 106, 202, 210;
    SOC-101, 102, 204, 210, 215; SSC-101

[^5]:    Humanities and Fine Arts *-9 credits
    Choose three credits from ARB-202; FRE-202; GER-202; HUM-101, $102,115,120,135$ or 140 or 145; JPN-202; LIT-213, 214, 215 or 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 230; PHI-101, 111, 120, 125; SPA-202, 213 3
    Choose three credits from ART-110, 205, 206 or 208, 209; HUM-101, 102, 120, 135 or 140 or 145; MUS-106, 107; THE-105, 107, 110, 111
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[^23]:    A pre- or corequisite may be required for some courses.

[^24]:    * May need to be repeated. Minimum skill level recommended for employment: 50 wpm.

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