WHAT IS YOUR PLAN AFTER CLC?

I WANT TO TRANSFER TO A FOUR-YEAR COLLEGE OR UNIVERSITY.

The Associate in Arts (A.A.), Associate in Science (A.S.) or other specially focused transfer degrees will probably be your best bet.

- **Associate in Arts (A.A.) degree** - typically ranges from 60-64 credit hours and should parallel the first two years of a liberal arts-related baccalaureate degree program.
- **Associate in Science (A.S.) degree** - typically ranges from 60-64 credit hours and should parallel the first two years of a science-related baccalaureate degree program.
- There are other specialized Associate’s transfer degrees in Engineering and Fine Arts (Art and Music).

Some colleges will accept credits earned through an Associate in Applied Science (A.A.S) but it would be best to confirm with the school you plan to attend next.

Whatever your plan, it is best to think about what college and major you would like to transfer to and design your coursework around the requirements of that institution. Student development counselors are experts on transfer planning and are happy to help!

I WANT TO START WORKING IN MY CHOSEN FIELD.

The Associate in Applied Science (A.A.S) is a degree designed to help students get into their chosen careers with the knowledge and skills needed by specific industries. These programs were created to provide tangible abilities in a field so that you can either find a job or upgrade your current job when you leave CLC.

Many programs also offer short-term certificates that can help get you into the workforce quickly. These certificates may cover a specific proficiency or technical ability to give you a jumpstart in the field. Many can be stacked together to work toward a degree.

- **Associate in Applied Science (A.A.S.) degree** – typically ranges from 60-72 credit hours and focuses on real-world career skills.
- **Career Certificates** – typically range from 9-30 credit hours and focus on a specialized skill.

I AM NOT REALLY SURE WHAT I WANT TO DO NEXT.

That is okay! At CLC, there are many people such as student development counselors, career counselors, academic advisors, and faculty who can help you discover your path. Page 21 has contact information for the people that can help. If you would like to discuss career interests or talk to someone about taking classes that could work for many degree or certificate options, stop by the Counseling, Advising, and Transfer Center.

This catalog is organized by fields of interest. Reading through this information may help spur an idea for you to explore further. For example, you may be interested in the Healthcare field; the Wellness and Health Sciences field of interest offers many options for you to consider.
DEGREE OR CERTIFICATE

Students who come to the College of Lake County in order to earn credits that are transferrable to a four-year college or university will find a wide range of programs designed to prepare them for work at the junior level. These programs lead either to an Associate in Arts (A.A.), an Associate in Science (A.S.), an Associate in Engineering Science (A.E.S.), or an Associate in Fine Arts (A.F.A.) degree at CLC. Classes in these programs are comparable to those offered in the first two years at a four-year institution.

Students are urged to select the college where they would like to transfer and design their program to meet the requirements of that institution. For specific information on which courses are transferrable to a given college or university, students should consult the Counseling, Advising and Transfer Center.

Many students are working to gain skills and knowledge in a field in order to find a job in that career area when they leave CLC. Other career students enroll in a two-year program that leads to an Associate in Applied Science degree (A.A.S.) or a shorter sequence that leads to a certificate. See page 51 for more information.

Trained and skilled individuals are needed to meet increasingly exacting qualifications in many fields. Career programs prepare students to step directly into this fast-moving age of technological change. The college currently offers over 40 specialized career programs, many of which are available both day and evening.

DEVELOPMENTAL EDUCATION

CLC is committed to helping students develop the skills that are needed for college-level courses and programs. Because of this commitment, the college requires that all new students meet the language and mathematics requirements specified as prerequisites for college-level courses.

Students who need to review or develop their language or mathematics skills are encouraged to enroll in one or more of the skills enhancement courses until they develop college-level skills in reading, writing and/or mathematics.

Students who need work in all three areas will be limited to courses that do not require college-level reading, writing and mathematics.

Students for whom English is their second language and have not achieved language proficiency are required to enroll in academic ESL classes such as ELI 100, 101, 102, 103, 104, 105, 106, 107 and 108. Placement in a specific course depends on ESL placement test scores (COMPASS) and recommendations of faculty.

Entrance Requirements for Developmental Courses

English
Students who do not achieve the lowest minimum score on the CLC English Placement Test will be REQUIRED to see a student development counselor before registering for classes and may not be eligible to register for developmental English courses. Students may be eligible to register for courses that do not require College Reading and Writing Readiness but will need to see a student development counselor prior to registration.

Mathematics
Students who do not achieve the lowest minimum score on the CLC Math Placement Test for entrance into any mathematics course will be REQUIRED to see a student development counselor before registering for classes and may not be eligible to register for developmental math courses. Students may be eligible to register for courses that do not require Basic Algebra Readiness but will need to see a student development counselor prior to registration.

Options
Students scoring below the minimum proficiency scores may be eligible to retest in an effort to demonstrate math or language ability. Students should see a student development counselor for a detailed explanation of retest options.

Testing
One way students may show College Reading and Writing Readiness and Basic Algebra Readiness is by taking the CLC Placement Test, administered by the Testing Center. For information on other ways to show College Reading and Writing Readiness and Basic Algebra Readiness, see pages 16-19. Placement testing includes a Language Skills test and/or a Mathematics test. These tests are administered at all three CLC Testing Centers. Please call for further information:

Grayslake Campus, Grayslake: (847) 543-2076
Lakeshore Campus, Waukegan: (847) 543-2120
Southlake Campus, Vernon Hills: (847) 543-6544

ADULT EDUCATION AND ESL

Adult Education classes are intended for people who live in Lake County. They are not appropriate for students with B1, B2, F1, F2, J1 or J2 visas, nor are they appropriate for short-term visitors to the U.S.

In general, students must be at least 18 years old in order to enroll in Adult Education classes. However, 16- and 17-year-olds may register with an official Secondary School Reference Form signed by their local high school authorized representative. U.S. high school graduates and 16-year-olds must meet additional eligibility requirements. New students must attend an orientation session before attending classes.

The Adult Education and ESL division provides several specific types of educational opportunities and is funded in part by grants from the federal government representing 32 percent of the total cost of the program.

Adult Basic Education
Adult Basic Education (ABE) provides individualized and class instruction in reading, general language development, writing, mathematics and life skills. Students proceed at their own pace.

Adult Secondary Education
Adult Secondary Education (ASE) classes prepare Lake County adults who have not completed high school to take a high school equivalency exam (GED, HiSET or TASC). In addition to the high school equivalency exam, students must pass the Constitution Test before they are awarded a high school equivalency certificate. This exam and classes are offered in English and Spanish.

English as a Second Language
English as a Second Language (ESL) classes are for students whose primary language is not English. Speaking, listening, reading and writing skills are taught. Students may enroll at the beginning, intermediate or advanced level.
Step Up Program
Step Up helps adult education students prepare for college, succeed in college and find a career job. The program facilitates the transition from adult education to college and allows students to earn a career certificate in one year or less. Students interested in the Step Up program must meet the program’s requirement as well as apply and get accepted into the Step Up program. Students accepted into the Step Up program receive academic support, guidance on job seeking and opportunities to apply for financial aid or scholarships.

Prebridge and Bridge Programs
Prebridge (PBRA) and Bridge Programs (BRGA) are offered for Adult Education students who are interested in pursuing a career in healthcare, manufacturing, computer information technology, administrative management and technology or early childhood education. The curriculum familiarizes students with the terminology, skills and standard practices of their field of interest. Students who enroll in PBRA or BRGA are required to meet certain prerequisites such as qualifying for the program with their TABE placement test score.

TYPES OF COURSES

Blended Courses
Blended courses (previously referred to as hybrid courses) offer instruction that is partially taught online and partially taught on-campus. Not all blended courses are configured the same. Blended courses have varying online and on campus schedules. For example, some courses have mostly online content with a few face-to-face classes, and some meet on campus weekly and include an online component of the class. A blended course is indicated in the class schedule as a 600 section class.

The benefits of blended courses are that they offer the flexibility of an online class, but still allow for face-to-face interaction with your instructor and peers. However, many of the same tips for success for online courses still apply. Blended courses are offered by all academic divisions. For more information visit www.clcillinois.edu/online.

Online Courses
The college offers online courses to accommodate the active schedules of CLC students. Courses for transfer and career programs are available to meet graduation goals toward the A.A., A.S., A.A.S. and A.G.S. degrees and Blackboard courses online via the through the MyCLC Portal. An online course is indicated in the class schedule as an 800 section class.

The structure for each course is different based on the area of study with student success in mind. Please be mindful that online courses are not for everyone; as the need for self-motivation, time management skills and the ability to work independently are key factors to successful course completion. To prepare for your first online course, online readiness tools and resources are available to ensure students are set up for success. For more information, visit www.clcillinois.edu/online.

To learn more about online options, please contact Kris Dahl in the Counseling Center at (847) 543-2353 or kdahl@clcillinois.edu.

Modular Instruction
Students wishing to improve basic skills in writing can do so by enrolling in a module. These individualized, structured programs of study permit students to work at their own pace. Modules are available at the Grayslake, Lakeshore and Southlake campuses.

ENG 104 Individualized Topics in Writing and Reading

Contact any tutoring center for more information.

Education Abroad
As a means of promoting international education among its students, CLC offers both short term and long term education abroad programs. These programs provide students an opportunity to enhance their understanding of other cultures, as well as their own, and gain an invaluable global perspective.

Short term education abroad programs are typically two to three weeks in duration and take place during Spring Intersession (mid to late May) or Winter Intersession (December-January). Destinations vary each year. Programs are led by experienced CLC faculty and provide students the chance to earn 3-6 CLC credits.

Students interested in residing and studying in another country for a longer period of time may participate in a semester abroad program offered through CLC or the Illinois Consortium for International Studies and Programs (ICISP). Students may choose from a program in Kunming, China; Canterbury, England; Salzburg, Austria; Carlow, Ireland; Seville, Spain; Hyderabad, India; Dijon, France or San Jose, Costa Rica. The curriculum for these programs emphasizes courses in art, foreign language, history, humanities, literature and music. All courses may be used to fulfill graduation requirements or as electives in transfer degree programs.

Financial aid for qualified persons may be applied toward the cost of education abroad programs at CLC.

For more information about education abroad programs offered at CLC, through ICISP or other study abroad organizations, contact the Center for International Education at jcushing@clcillinois.edu or (847) 543-2733.

Field Experiences
In addition to providing education in the classroom, lecture hall and laboratory, CLC faculty members also teach courses “in the field.” Faculty lead field study and travel courses for a variety of art, biology, geology, history and humanities courses to locations such as Door County or the Appalachian Trail. See the current class schedule for more information about which field study courses are being offered in a given semester.

Honors Program
The Honors Program is dedicated to providing students with opportunities to enrich their academic and community experiences and to reflect the diversity of the college community as a whole.

Honors work emphasizes independence and critical thinking skills. Students can anticipate challenging types of assignments, research with primary sources, increased group activity and opportunities to take on leadership roles inside and outside of the classroom. The following
criteria are used to determine acceptance into the Honors Program:
- Completion of Honors application form
- Unofficial high school and/or college transcripts

In addition, students must meet either of the following criteria to be admitted into the Honors Program.
Required:
- A high school GPA of 3.5/4.0 or
- A college GPA of 3.5/4.0 (with a minimum of 12 academic credit hours)

For questions about honors coursework or program requirements, please contact Nick Schevera at (847) 543-2959 or nschevera@clcillinois.edu.

NON-CREDIT OPPORTUNITIES

Workforce and Professional Development Institute:

Professional Development (PD) offers courses and workshops, instructor-led and online, that will enhance your existing job skills, add new ones, maintain licensure or certifications or prepare you for a new career. Course selections include career training (real estate, truck driver training, etc.), business and leadership (project management, human resources, etc.), e-Marketing (social media, etc.), computer skills (Microsoft Office, etc.), healthcare (NLN Test Prep, CPR, etc.), safety (forklift operator training) and the Personal Success Program of vocational courses designed for adults with mild to moderate cognitive impairment. For more information call (847) 543-2990, email professionalworkshops@clcillinois.edu or visit www.clcillinois.edu/wpdi.

Talent Development Services (TDS) provides innovative learning solutions that deliver results. Preparing your organization for the continually changing work environment is a smart strategy. TDS delivers customized training crafted to meet your organization’s specific needs through instructor-led, online or hybrid offerings that can be held at your location or at one of CLC’s three campuses. Training topics include managerial and supervisory skills, computer skills, English as a Second Language, presentation skills, etc. and are taught by subject matter experts who specialize in training adult learners. Professional coaching and career coaching are also available for all levels of management and employees.

For more information, call (847) 543-2990, email corporatetraining@clcillinois.edu or visit www.clcillinois.edu/wpdi.

The Illinois Small Business Development and International Trade Center (IL SBDC ITC) provides business solutions, training and assistance finding new opportunities for your small business to start, grow and succeed. Whether you’re starting a new business, positioning your company for growth or seeking to expand globally, the Center can help. Advising is free and workshops are affordably priced. For more information or to schedule an appointment, call (847) 543-2033, email IllinoisSBDC@clcillinois.edu or visit www.clcillinois.edu/sbdc-itc.

COMMUNITY PROGRAMMING

Community Programming offers educational experiences for individuals to pursue passions, enjoy life and to stay safe through Personal Enrichment and Judicial Services areas.

Personal Enrichment offers non-credit programming in a pleasant, comfortable atmosphere for learners of all ages. Students can enjoy leisure, recreation and personal enrichment classes that enhance personal growth and expand individual experiences. Students can take a trip, learn to dance, improve physical fitness, relive history or appreciate the arts. Classes range from one-day workshops to semester-length courses. Students learn new skills, meet new people and develop new hobbies in a relaxed environment. Whatever the interest, offerings are available for the entire family. Visit www.clcillinois.edu/personalenrichment.

Gifted Children Classes (Grades 7-8)
To enroll in the Fast-Paced Program for gifted and talented children, students must score in the 95th percentile on standardized tests.

Youth Classes (Grades 1-12)
A variety of educational and recreational programs are offered for students in grades 1-12. Programs include academic enrichment in math, test prep, writing, STEM and the arts.

Summer Youth Camps (Grades 1-12)
Explore camp for youth in grades 1-8 offers premium academic enrichment learning experiences wrapped in fun and designed to boost skills. STEM and STEAM are featured and taught by highly-trained and energized professionals.

Engage camp is for grades 9-12 and offers immersive and fun potential career experiences in STEM and other professions, engineering, medical, software development, scientists, researchers, auto technology, culinary, law and legal, filmmaking and many more. Try a career before deciding on a major or a job.

Discovery
The Discovery program for adult learners age 50-plus offers exciting and creative programs for an immersive experience. Short-term classes are offered in history, filmmaking, religion, arts, current events and literature. College instructors or community professionals facilitate most sessions. For more information call (847) 543-2615.

For more information on these programs, call Personal Enrichment at (847) 543-2615, visit www.clcillinois.edu/personalenrichment or email cpeinfo@clcillinois.edu.

The Judicial Services department, in partnership with the 19th Judicial Circuit of Illinois, offers a variety of programs for the court system. The Defensive Driving Program, offered since 1991, allows motorists who have received a minor traffic violation in Lake County the option to take classes under court supervision. The classes are accredited by the National Safety Council and emphasize defensive driving techniques. The National Safety Council’s program “Alive at 25” is also available for teen drivers. The Family Parenting Program is for parents with minor children who are dissolving a marriage or seeking co-parenting and custody agreements. The Live Victim Impact Panel is designed to affect the behavior and state of mind of those convicted of DUI and related offenses. The Volunteer Probation Support Program recruits, trains and assigns volunteers to work with adults and juveniles during probation periods, providing support, mentoring and supervision. For more information on these programs contact Judicial Services at (847) 543-2185 or visit www.clcillinois.edu/judicial.
ASSOCIATE IN GENERAL STUDIES
Counseling, Advising, and Transfer Center
Room A124, (847) 543-2060

Associate in General Studies Plan 10AC

The Associate in General Studies (A.G.S.) is a highly individualized degree that combines both liberal arts and sciences and occupational education coursework. It is an alternative degree for students who are undecided about future education or career goals or who need a 60 credit hour degree comprising 21 credit hours in general education coursework and 39 credit hours in program electives. (Because of the individualized nature of this degree, students are required to meet with a Student Development Counselor for assistance in choosing courses that will satisfy their academic goals.) The A.G.S. is not designed for transfer to a four-year college or university. The general education requirements for the A.G.S. do not fulfill the IAI (Illinois Articulation Initiative) General Education Core Curriculum guidelines. Students can use some credits earned toward their A.G.S. degree to transfer, but should be aware that transfer options for the degree as a whole are limited. Students must meet with a Student Development Counselor to determine the appropriateness of the A.G.S. degree option and must complete a Plan of Study before their decision to pursue the A.G.S. degree is formalized. The official plan must be signed by the student and the Student Development Counselor, reviewed and signed by an additional Student Development Counselor, and then filed in the Counseling, Advising, and Transfer Center.

REQUIREMENTS:

COMMUNICATION - 6 CREDIT HOURS
Two courses including one course in Communication and one in English.

- CMM 111 Communication Skills 3
- CMM 121 Fundamentals of Speech 3
- CMM 122 Business/Professional Speaking 3
- CMM 123 Dynamics/Small Group - Discuss 3
- CMM 124 Oral Interpretation 3
- CMM 125 Communication and Gender 3
- CMM 127 Intercultural Communication 3
- CMM 128 Interviewing Practices 3
- CMM 129 Argumentation and Debate 3
- ENG 120 Technical Composition I 3
- ENG 121 English Composition I 3
- ENG 122 English Composition II 3
- ENG 126 Advanced Composition: Scientific/Technical 3

SOCIAL AND BEHAVIORAL SCIENCES - 6 CREDIT HOURS

- Any ANT course
- Any ECO course
- Any GEG course, with the exception of GEG 120 or 121
- Any GXs course
- Any HST course
- Any PSC course
- Any PSY course
- Any SOC course

SCIENCE OR MATHEMATICS - 6 CREDIT HOURS

- AOS 122 Business Mathematics (3)
- Any BIO course
- Any CHM course
- Any ESC course
- GEG 120 Principles of Physical Geography (4)
- GEG 121 Physical Geography (3)
- Any MTH course, with the exception of any developmental MTH courses (PCS 1.4)
- Any PHY course
- Any SCI course

HUMANITIES AND FINE ARTS - 3 CREDIT HOURS

- Any ARA course
- Any ART course
- Any ASI course
- Any CHI course
- Any DNC course
- Any ENG course, with the exception of ENG 120, 121, 122, and 126, and any developmental ENG courses (PCS 1.4)
- Any FRN course
- Any GER course
- Any HUM course
- Any ITL course
- Any JPN course
- Any MUS course
- Any PHI course
- Any RUS course
- Any SPA course
- Any THE course

AREA OF CONCENTRATION/ELECTIVE REQUIREMENTS - 39 CREDIT HOURS

Students with previous academic, career, and life experiences are encouraged to investigate the options of proficiency credit to substitute their acquired knowledge for prerequisites, course and/or degree requirements. Any Emergency Medical Technology (EMT) courses can be used to satisfy degree requirements. However, no EMT courses (with the exception of EMT 111 Emergency Medical Technician-Basic) are eligible for financial aid. The following courses cannot be used to satisfy degree requirements and do not count in the grade point average (GPA): 1. Courses with a middle digit of 0: (e.g. ENG 108, ENG 109, and MTH 101); 2. Adult Education courses with a department prefix of ABE, ADE, BRGA, ELI (with the exception of ELI 125), ESL, GED, or VST.

Total hours for A.G.S. Degree 60
DEGREES/CERTIFICATES

ART
DANCE
DIGITAL MEDIA AND DESIGN
HOSPITALITY AND CULINARY MANAGEMENT
MUSIC
THEATRE

ARTS, ENTERTAINMENT AND HOSPITALITY
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ASSOCIATE IN ARTS (13AB)

Students may obtain an Associate in Arts degree from the College of Lake County by successfully meeting college requirements and course requirements outlined below.

The College of Lake County is a participant in the Illinois Articulation Initiative (IAI), a major statewide cooperative agreement that eases the transfer process of the completed Illinois General Education Core Curriculum among participating institutions.

COMMUNICATION - 9 CREDIT HOURS
A grade of C or better is required for both ENG courses.

☐ CMM 121 Fundamentals of Speech (3) C2 900
☐ ENG 121 English Composition I (3) C1 900
☐ ENG 122 English Composition II (3) C1 901 R OR
☐ ENG 126 Advanced Composition: Scientific and Technical Communications (3) C1 901 R

SOCIAL AND BEHAVIORAL SCIENCE - 9 CREDIT HOURS
Select courses from at least two different disciplines i.e. different prefixes.

☐ ANT 121+ Introduction to Anthropology (3) S1 900N
☐ ANT 221+ Cultural Anthropology (3) S1 901N
☐ ANT 222 Introduction to Physical Anthropology (3) S1 902
☐ ANT 224 Introduction to Archaeology (3) S1 903
☐ ANT 228+ Cross-Cultural Relationships (3) S1 904D
☐ ECO 221 Principles of Macroeconomics (3) S3 901
☐ ECO 222 Principles of Microeconomics (3) S3 902
☐ GEG 122 Cultural Geography (3) S4 900N
☐ GEG 123 World Regional Geography (3) S4 900N
☐ GXS 121+ Introduction to Gender Studies (3) S9 900
☐ GXS 229+ Sex, Gender, and Power (3) S7 904D
☐ HST 121+ History of Western Civilization to 1500 (3) S2 902
☐ HST 122+ History of Western Civilization 1500 to Present (3) S2 903
☐ HST 126+ History of Contemporary Non-Western Civilization (3) S2 905N

HST 127+ History of Chinese Culture and Society (3) S2 920N
HST 221 United States History to 1876 (3) S2 900
HST 222 United States History 1876 to Present (3) S2 901
HST 245+ History of Latin America to 1825 (3) S2 920N
HST 246+ History of Latin America from 1825 (3) S2 920N
PSC 121 American National Politics (3) S5 900
PSC 122 State and Local Politics (3) S5 902
PSC 221+ Comparative Political Systems (3) S5 905
PSC 222+ International Relations (3) S5 904N
PSY 121 Introduction to Psychology (3) S6 900
PSY 220 Lifespan Development (3) S6 902
PSY 222 Child Growth and Development (3) S6 903
PSY 225 Social Psychology (3) S8 900
PSY 226 Adolescent Psychology (3) S6 904
SOC 121 Introduction to Sociology (3) S7 900
SOC 222 Social Problems (3) S7 901
SOC 224 Sociology of the Family (3) S7 902
SOC 225+ Class, Race, and Gender (3) S7 903D
SOC 229+ Sex, Gender, and Power (3) S7 904D

PHYSICAL AND LIFE SCIENCES - 7 CREDIT HOURS
One course must be selected from Physical Science and one course from Life Science. At least one course must be a laboratory science course (L).

PHYSICAL SCIENCE
☐ CHM 120L (LAB) Chemical Concepts (4) P1 902L
☐ CHM 121L (LAB) General Chemistry I (5) P1 902L
☐ CHM 140L Chemistry for a Changing World (3) P1 903L
☐ CHM 142L (LAB) Chemistry for a Changing World (4) P1 903L
☐ ESC 120L (LAB) Earth Science (4) P1 905L
☐ ESC 121L (LAB) Physical Geography (4) P1 907L
☐ ESC 123 Introduction to Meteorology (3) P1 905
☐ ESC 124 Oceanography (3) P1 905
☐ ESC 125 Geology of National Parks (3) P1 907
☐ ESC 127L (LAB) Introduction to Meteorology (4) P1 905L
☐ ESC 128 Great Mysteries of the Earth (3) P1 905
☐ ESC 129 Severe and Hazardous Weather (3) P1 905
☐ ESC 140L (LAB) Introduction to Astronomy (4) P1 906L
☐ ESC 141 Introduction to Astronomy (3) P1 906
☐ ESC 224 Environmental Geology (3) P1 908
☐ GEG 120L (LAB) Physical Geography (4) P1 909L
☐ GEG 121 Physical Geography (3) P1 909
☐ PHY 120L (LAB) Practical Aspects of Physics (4) P1 901L
☐ PHY 121L (LAB) General Physics I (5) P1 900L
☐ PHY 123L (LAB) Physics for Science and Engineering I (5) P2 900L

LIFE SCIENCE
☐ BIO 120L (LAB) Environmental Biology (4) L1 905L
☐ BIO 123L (LAB) Principles of Biology (4) L1 900L
☐ BIO 127 Introduction to Evolution (3) L1 907
☐ BIO 140 Environmental Biology without Lab (3) L1 905
☐ BIO 141L (LAB) Concepts of Biology (4) L1 900L
☐ BIO 149 Genetics and Society (3) L1 906
☐ BIO 161L (LAB) General Biology I (4) L1 910L

MATHEMATICS – 3 CREDIT HOURS

☐ MTH 127 Finite Mathematics I (3) M1 906
☐ MTH 140 Contemporary Mathematics (3) M1 904
☐ MTH 141 Quantitative Literacy (3) M1 901
☐ MTH 142 General Education Statistics (3) M1 902
☐ MTH 145 Calculus and Analytic Geometry I (5) M1 900-B
☐ MTH 146 Calculus and Analytic Geometry II (4) M1 900-2
☐ MTH 221 Mathematics for Elementary Teaching II (3) M1 903
☐ MTH 222 Business Statistics (4) M1 902
☐ MTH 224 Calculus for Business and Social Science (4) M1 900-B
☐ MTH 244 Discrete Mathematics (3) M1 905
☐ MTH 246 Calculus and Analytic Geometry III (5) M1 900-3
HUMANITIES AND FINE ARTS – 9 CREDIT HOURS

At least one course must be selected from the Humanities section and one course from the Fine Arts section.

HUMANITIES
- ARA 222+ Intermediate Modern Standard Arabic II (4) H1 900
- CHI 222+ Intermediate Chinese II (4) H1 900
- ENG 129+ Women in Literature (3) H3 911D
- ENG 223+ Early American Literature (3) H3 914
- ENG 225+ Survey of British Literature I (3) H3 912
- ENG 226+ Survey of British Literature II (3) H3 913
- ENG 227+ Introduction to Shakespeare (3) H3 905
- ENG 228+ World Literature (3) H3 906
- ENG 229+ 20th Century American Literature (3) H3 915
- ENG 241+ Introduction to Poetry (3) H3 903
- ENG 243+ Introduction to Fiction (3) H3 901
- ENG 244+ Mythology and Fairy Tales (3) H9 901
- ENG 246+ Latin American Writers (3) H9 908N
- ENG 247+ International Women Writers (3) H3 911D
- ENG 249+ Children’s Literature (3) H3 918
- FRN 222+ Intermediate French II (4) H1 900
- FRN 223+ French Civilization I (3) H1 900
- FRN 224+ French Civilization II (3) H1 900
- GER 222+ Intermediate German II (4) H1 900
- GER 224+ German Civilization II (3) H1 900
- HUM 121+ Humanities: Ancient Times to the Middle Ages (3) HF 902
- HUM 122+ Humanities: Renaissance to the Present (3) HF 903
- HUM 127+ Critical Thinking (3) HF 906
- HUM 128+ Introduction to Middle-Eastern Civilizations (3) H2 903 N
- HUM 129+ Introduction to East Asian Civilization (3) HF 904 N
- HUM 141+ World Humanities 20/21st Century (3) HF 904 N
- HUM 211+ American Decades (3) HF 906D
- HUM 221+ Women and the Arts (3) HF 907D
- ITL 222+ Intermediate Italian II (4) H1 900
- ITL 223+ Italian Civilization I (3) H1 900
- JPN 222+ Intermediate Japanese II (4) H1 900
- LAT 121+ Introduction to Latin-American Studies (3) HF 906D
- PHI 121+ Introduction to Philosophy (3) H4 900
- PHI 122+ Logic (3) H4 906
- PHI 123+ Philosophy of Religion (3) H4 905
- PHI 125+ Introduction to Ethics (3) H4 904

FINE ARTS
- ART 121+ Introduction to Art (3) F2 900
- ART 240+ History of Art I (3) F2 901
- ART 241+ History of Art II (3) F2 902
- ART 260+ History of Photography (3) F2 904
- ART 261+ Non-Western Art History (3) F2 903N
- DNC 240+ The Art of Dance (3) F1 906
- HUM 121+ Introduction to the Performing Arts (3) F3 909
- HUM 123+ Introduction to Film (3) F2 908
- HUM 126+ Introduction to the Performing Arts (3) F3 909
- HUM 129+ Introduction to East Asian Civilization (3) HF 904 N
- HUM 140+ World Humanities 20/21st Century (3) HF 904 N
- HUM 141+ American Decades (3) HF 906D
- HUM 222+ Film and Society (3) F2 908
- HUM 226+ Women and the Arts (3) HF 907D
- MUS 124+ Music Appreciation (3) F1 900
- MUS 224+ Music Literature (3) F1 902
- THE 121+ Introduction to Theatre I (3) F1 907
- THE 123+ Diversity in American Theatre (3) F1 909D

INTERNATIONAL/MULTICULTURAL REQUIREMENTS

Choose one course with a + following the course number OR one of the following: ASI 121, CMM 127, ECO 225, EDU 224, ENG 263, 264, GXS 221, 299, HST 128, LAT 121, PDS 123, PHI 128, 129, PSY 229, SSI 121.

This course can fulfill both the I/M requirement and a Social Science, Humanities, Fine Arts, or Elective requirement. A B.A. degree at many four year colleges may require college level foreign language.

AREA OF CONCENTRATION/ELECTIVE REQUIREMENTS - 23 CREDIT HOURS

• Choose elective courses with a 1.1 (transfer course) PCS code that relate to your intended major. Students should choose electives only after consulting with an Advising Professional. The PCS code for each course is listed in the course descriptions starting on page 224 of this catalog. Up to six hours of courses with a 1.2 (career course) PCS code may be used as general electives in the degree. All 199 courses are exempt from this rule. Students should select these courses only after they have verified their transferability with their Advising Professional or the transfer institution. EDU 999 does not count toward this six-hour limit.

• Students may not receive credit towards degree for both CHM 140 and CHM 142, or both BIO 120 and BIO 140, or both ESC 123 and ESC 127.

• Students with credit for both MTH 122 and MTH 123 will not be given credit for MTH 144. Students may not receive credit towards degree for both (MTH 122 and MTH 144) or (MTH 123 and MTH 144).

• Please review lists of recommended courses for individual programs of study listed on pages 58-262 in this catalog.

Total A.A. Degree Requirements 60 credit hours

OTHER GRADUATION REQUIREMENTS

• Cumulative CLC GPA of 2.00 or higher
• Completion of at least 15 credit hours at CLC
• Petition to Graduate: The Petition to Graduate form must be submitted to the Welcome and One-Stop Center to have your degree processed. It can be found online at www.clcillinois.edu/petition. Contact Admissions for more information at (847) 543-2061. Deadlines to Petition: Spring – February 15; Summer – July 1; Fall – October 1
ASSOCIATE IN FINE ARTS IN ART (14AA)

Students may obtain an Associate in Fine Arts in Art degree from the College of Lake County by successfully meeting college requirements and the course requirements outlined below.

The College of Lake County is a participant in the Illinois Articulation Initiative (IAI), a major statewide cooperative agreement that eases the transfer process of the completed Illinois General Education Core.

Curriculum among participating institutions. The Associate in Fine Arts degree, however, is not automatically accepted in whole for transfer at all participating IAI four-year colleges and universities in Illinois; therefore students must work with the institutions in which they intend to transfer to ensure transferability of specific courses.

COMMUNICATION - 9 CREDIT HOURS
A grade of C or better is required for both ENG courses.

- CMM 121 Fundamentals of Speech (3) C2 900
- ENG 121 English Composition I (3) C1 900
- ENG 122 English Composition II (3) C1 901 R OR Advanced Composition: Scientific and Technical Communications (3) C1 901 R

SOCIAL AND BEHAVIORAL SCIENCE - 6 CREDIT HOURS
Select courses from at least two different disciplines i.e. different prefixes.

- ANT 121+ Introduction to Anthropology (3) S1 900N
- ANT 221+ Cultural Anthropology (3) S1 901N
- ANT 222 Introduction to Physical Anthropology (3) S1 902
- ANT 224 Introduction to Archaeology (3) S1 903
- ANT 228+ Cross-Cultural Relationships (3) S1 904D
- ECO 221 Principles of Macroeconomics (3) S3 901
- ECO 222 Principles of Microeconomics (3) S3 902
- GEG 122 Cultural Geography (3) S4 900N
- GEG 123 World Regional Geography (3) S4 900N
- GKS 121+ Introduction to Gender Studies (3) S9 900
- GKS 229+ Sex, Gender, and Power (3) S7 904D
- HST 121+ History of Western Civilization to 1500 (3) S2 902
- HST 122+ History of Western Civilization 1500 to Present (3) S2 903
- HST 126+ History of Contemporary Non-Western Civilization (3) S2 905N
- HST 127+ History of Chinese Culture and Society (3) S2 920N
- HST 221 United States History to 1876 (3) S2 900
- HST 222 United States History 1876 to Present (3) S2 901
- HST 245+ History of Latin America from 1825 (3) S2 920N
- HST 246+ American National Politics (3) S5 900
- HST 224 State and Local Politics (3) S5 902
- HST 221+ Comparative Political Systems (3) S5 905
- HST 222 International Relations (3) S5 904N
- PSY 121 Introduction to Psychology (3) S6 900
- PSY 220 Lifespan Development (3) S6 902
- PSY 222 Child Growth and Development (3) S6 903
- PSY 225 Social Psychology (3) S8 900
- PSY 226 Adolescent Psychology (3) S6 904
- SOC 121 Introduction to Sociology (3) S7 900
- SOC 222 Social Problems (3) S7 901
- SOC 224 Sociology of the Family (3) S7 902
- SOC 225+ Class, Race, and Gender (3) S7 903D
- SOC 229+ Sex, Gender, and Power (3) S7 904D

PHYSICAL AND LIFE SCIENCES - 7 CREDIT HOURS
One course must be selected from Physical Science and one course from Life Science. At least one course must be a laboratory science course (L).

PHYSICAL SCIENCE
- CHM 120L (LAB) Chemical Concepts (4) P1 902L
- CHM 121L (LAB) General Chemistry I (5) P1 902L
- CHM 140 Chemistry for a Changing World (3) P1 903
- CHM 142L (LAB) Chemistry for a Changing World (4) P1 903L
- ESC 120L (LAB) Earth Science (4) P1 905L
- ESC 121L (LAB) Physical Geology (4) P1 907L
- ESC 123 Introduction to Meteorology (3) P1 905
- ESC 124 Oceanography (3) P1 905
- ESC 125 Geology of National Parks (3) P1 907
- ESC 127L (LAB) Introduction to Meteorology (4) P1 905L
- ESC 128 Great Mysteries of the Earth (3) P1 905
- ESC 129 Severe and Hazardous Weather (3) P1 905
- ESC 140L (LAB) Introduction to Astronomy (4) P1 906L
- ESC 141 Introduction to Astronomy (3) P1 906
- ESC 224 Environmental Geology (3) P1 908
- GEG 120L (LAB) Physical Geography (4) P1 909L
- GEG 121 Physical Geography (3) P1 909
- PHY 120L (LAB) Practical Aspects of Physics (4) P1 901L
- PHY 121L (LAB) General Physics I (5) P1 900L
- PHY 123L (LAB) Physics for Science and Engineering I (5) P2 900L

LIFE SCIENCE
- BIO 120L (LAB) Environmental Biology (4) L1 905L
- BIO 123L (LAB) Principles of Biology (4) L1 900L
- BIO 127 Introduction to Evolution (3) L1 907
- BIO 140 Environmental Biology without Lab (3) L1 905
- BIO 141L (LAB) Concepts of Biology (4) L1 900L
- BIO 149 Genetics and Society (3) L1 906
- BIO 161L (LAB) General Biology I (4) L1 910L

MATHEMATICS – 3 CREDIT HOURS
- MTH 127 Finite Mathematics I (3) M1 906
- MTH 140 Contemporary Mathematics (3) M1 904
- MTH 141 Quantitative Literacy (3) M1 901
- MTH 142 General Education Statistics (3) M1 902
- MTH 145 Calculus and Analytic Geometry I (5) M1 900-1
### HUMANITIES AND FINE ARTS – 6 CREDIT HOURS

At least one course must be selected from the Humanities section and one course from the Fine Arts section.

#### HUMANITIES
- **ARA 222+**: Intermediate Modern Standard Arabic II (4) *H1 900*
- **CHI 222+**: Intermediate Chinese II (4) *H1 900*
- **ENG 129+**: Women in Literature (3) *H3 911D*
- **ENG 223**: Early American Literature (3) *H3 914*
- **ENG 225**: Survey of British Literature I (3) *H3 912*
- **ENG 226**: Survey of British Literature II (3) *H3 913*
- **ENG 227**: Introduction to Shakespeare (3) *H3 905*
- **ENG 228+**: World Literature (3) *H3 906*
- **ENG 241**: Introduction to Poetry (3) *H3 903*
- **ENG 243**: Introduction to Fiction (3) *H3 901*
- **ENG 244+**: Mythology and Fairy Tales (3) *H9 901*
- **ENG 246+**: Latin American Writers (3) *H3 908N*
- **ENG 247+**: International Women Writers (3) *H3 911D*
- **ENG 249**: Children’s Literature (3) *H3 918*
- **FRN 222+**: Intermediate French II (4) *H1 900*
- **FRN 223**: French Civilization I (3) *H1 900*
- **FRN 224**: French Civilization II (3) *H1 900*
- **GER 222+**: Intermediate German II (4) *H1 900*
- **GER 224**: German Civilization II (3) *H1 900*
- **HUM 121+**: Humanities: Ancient Times to the Middle Ages (3) *HF 902*
- **HUM 122+**: Humanities: Renaissance to the Present (3) *HF 903*
- **HUM 127**: Critical Thinking (3) *H4 906*
- **HUM 128+**: Introduction to Middle-Eastern Civilizations (3) *H2 903 N*
- **HUM 129+**: Introduction to East Asian Civilization (3) *HF 904 N*
- **HUM 141+**: World Humanities 20/21 Century (3) *HF 904 N*
- **HUM 221+**: American Decades (3) *HF 906D*
- **HUM 226+**: Women and the Arts (3) *HF 907D*
- **HUM 227**: Intermediate Italian II (4) *H1 900*
- **HUM 228+**: Intermediate Japanese II (4) *H1 900*
- **HUM 229**: Introduction to Philosophy (3) *H4 900*
- **HUM 230+**: Logic (3) *H4 906*
- **HUM 231+**: Philosophy of Religion (3) *HF 905*
- **HUM 232+**: Introduction to Ethics (3) *H4 904*
- **HUM 233+**: World Religions (3) *HS 904N*
- **HUM 234+**: Asian Philosophy (3) *H4 903N*
- **HUM 235+**: Intermediate Russian II (4) *H1 900*
- **HUM 236+**: Intermediate Spanish II (4) *H1 900*
- **HUM 237+**: Spanish Civilization I (3) *H1 900*
- **HUM 238+**: Spanish Civilization II (3) *H1 900*
- **HUM 249**: Digital Photography II (3)

#### FINE ARTS
- **DNC 240+**: The Art of Dance (3) *F1 906*
- **HUM 121+**: Humanities: Ancient Times to the Middle Ages (3) *HF 902*
- **HUM 122+**: Humanities: Renaissance to the Present (3) *HF 903*
- **HUM 123**: Introduction to Film (3) *F2 908*
- **HUM 126+**: Performing Arts (3) *F9 900*
- **HUM 129+**: Introduction to East Asian Civilization (3) *HF 904 N*
- **HUM 140+**: Introduction to International Film (3) *F2 909*
- **HUM 141+**: World Humanities 20/21 Century (3) *HF 904 N*
- **HUM 221+**: American Decades (3) *HF 906D*
- **HUM 222**: Film and Society (3) *F2 908*
- **HUM 226+**: Women and the Arts (3) *HF 907D*
- **HUM 227**: Music Appreciation (3) *F1 900*
- **HUM 228+**: Music Literature (3) *F1 902*
- **THE 212**: Introduction to Theatre (3) *F1 907*
- **THE 123+**: Diversity in American Theatre (3) *F1 909D*

#### AREA OF CONCENTRATION/ELECTIVE REQUIREMENTS - 30 CREDIT HOURS

#### ART CORE - 21 CREDIT HOURS
- **ART 122**: Two Dimensional Design (3)
- **ART 124**: Drawing I (3)
- **ART 127**: Drawing II (3)
- **ART 221**: Three Dimensional Design (3)
- **ART 225**: Figure Drawing (3)
- **ART 240+**: History of Art I (3) *F2 901*
- **ART 241+**: History of Art II (3) *F2 903*

#### ART STUDIO ELECTIVES - 9 CREDIT HOURS
- **ART 123**: Photography I (3)
- **ART 129**: Digital Photography I (3)
- **ART 222**: Computer Art I (3)
- **ART 223**: Sculpture I (3)
- **ART 224**: Painting I (3)
- **ART 226**: Ceramics I (3)
- **ART 227**: Painting II (3)
- **ART 228**: Sculpture II (3)
- **ART 229**: Photography II (3)
- **ART 245**: Jewellery I (3)
- **ART 246**: Ceramics II (3)
- **ART 249**: Digital Photography II (3)

### INTERNATIONAL/MULTICULTURAL REQUIREMENTS

Include one course in International/Multicultural Education—Choose one course with a + following the course number.

This course can fulfill both the I/M requirement and a Social Science, Humanities, or Fine Arts requirement. A BA degree at many four-year colleges may require college-level foreign language.

### Total A.F.A. in Art Degree Requirements 61 credit hours

### OTHER GRADUATION REQUIREMENTS
- **Cumulative CLC GPA of 2.00 or higher**
- **Completion of at least 15 credit hours at CLC**
- **Petition to Graduate**: The Petition to Graduate form must be submitted to the Welcome and One-Stop Center to have your degree processed. It can be found online at [www.clcillinois.edu/petition](http://www.clcillinois.edu/petition). Contact Admissions for more information at (847) 543-2061. Deadlines to Petition: Spring – February 15; Summer – July 1; Fall – October 1
ASSOCIATE IN FINE ARTS IN MUSIC (16AB)

Students may obtain an Associate in Fine Arts in Music Performance degree from the College of Lake County by successfully meeting college requirements and the course requirements outlined below.

The College of Lake County is a participant in the Illinois Articulation Initiative (IAI), a major statewide cooperative agreement that eases the transfer process of the completed Illinois General Education Core Curriculum among participating institutions. The Associate in Fine Arts degree, however, is not automatically accepted in whole for transfer at all participating IAI four-year colleges and universities in Illinois; therefore students must work with the institutions in which they intend to transfer to ensure transferability of specific courses.

COMMUNICATION - 9 CREDIT HOURS
A grade of C or better is required for both ENG courses.

- **CMM 121** Fundamentals of Speech (3)
- **ENG 121** English Composition I (3)
- **ENG 122** English Composition II (3)
- **ENG 126** Advanced Composition: Scientific and Technical Communications (3)

SOCIAL AND BEHAVIORAL SCIENCE - 3 CREDIT HOURS

- **ANT 121+** Introduction to Anthropology (3)
- **ANT 221+** Cultural Anthropology (3)
- **ANT 222** Introduction to Physical Anthropology (3)
- **ANT 224** Introduction to Anthropology (3)
- **ANT 228+** Cross-Cultural Relationships (3)
- **ECO 222** Principles of Microeconomics (3)
- **ECO 221** Principles of Macroeconomics (3)
- **GEG 123** Cultural Geography (3)
- **GEG 122** World Regional Geography (3)
- **GXS 121+** Introduction to Gender Studies (3)
- **GXS 229+** Sex, Gender, and Power (3)
- **HST 121+** History of Western Civilization to 1500 (3)

PHYSICAL AND LIFE SCIENCES - 7 CREDIT HOURS

One course must be selected from Physical Science and one course from Life Science. At least one course must be a laboratory science course (L).

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>HST 122+</td>
<td>History of Western Civilization 1500 to Present (3)</td>
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<tr>
<td>HST 126+</td>
<td>History of Contemporary Non-Western Civilization (3)</td>
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<td>HST 127+</td>
<td>History of Chinese Culture and Society (3)</td>
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<td>HST 221</td>
<td>United States History to 1876 (3)</td>
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<td>HST 222</td>
<td>United States History 1876 to Present (3)</td>
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<td>HST 245+</td>
<td>History of Latin America to 1825 (3)</td>
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<td>History of Latin America from 1825 (3)</td>
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<td>SOC 229+</td>
<td>Sex, Gender, and Power (3)</td>
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MATHEMATICS – 3 CREDIT HOURS

- **MTH 127** Finite Mathematics I (3)
- **MTH 140** Contemporary Mathematics (3)
- **MTH 141** Quantitative Literacy (3)
- **MTH 142** General Education Statistics (3)
- **MTH 145** Calculus and Analytic Geometry I (5) |
- **MTH 146** Calculus and Analytic Geometry II (4) |
- **MTH 221** Mathematics for Elementary Teaching II (3) |
- **MTH 222** Business Statistics (4) |
- **MTH 224** Calculus for Business and Social Science (4) |
- **MTH 244** Discrete Mathematics (3) |
- **MTH 246** Calculus and Analytic Geometry III (5) |
FINE ARTS

- ITL 223: Intermediate Italian I (3) H1 900
- ITL 222+: Intermediate Italian II (4) H1 900
- JPN 222+: Intermediate Japanese I (3) H1 900
- PHI 121
- PHI 122
- PHI 123
- PHI 125+
- PHI 126+
- PHI 221+
- RUS 222+
- SPA 222+
- SPA 223+
- SPA 224+
- THE 123+

MUSIC THEORY - 12 CREDIT HOURS

- MUS 128: Theory of Music I (3)
- MUS 129: Theory of Music II (3)
- MUS 228: Theory of Music III (3)
- MUS 229: Theory of Music IV (3)

AURAL SKILLS - 4 CREDIT HOURS

- MUS 125: Aural Skills I (1)
- MUS 126: Aural Skills II (1)
- MUS 225: Aural Skills III (1)
- MUS 226: Aural Skills IV (1)

KEYBOARD SKILLS - 4 CREDIT HOURS

- MUS 145: Piano Class I (1)
- MUS 146: Piano Class II (1)
- MUS 245: Piano Class III (1)
- MUS 246: Piano Class IV (1)

ENSEMBLE - 4 CREDIT HOURS

- MUS 120: Vocal Ensembles (1)
- MUS 123: Wind Ensemble (1)
- MUS 223: Jazz Ensemble (1)

MUSIC HISTORY - 3 CREDIT HOURS

- MUS 224: Music Literature (3)

APPLIED INSTRUCTION - 8 HOURS

Choose 4 credit hours from the same 100 level course and 4 credit hours from the same 200 level course. All 8 credit hours must be taken in voice or in one major instrument.

- MUS 141: Applied Music-Voice I (1-2) and
- MUS 241: Applied Music-Voice II (1-2)
- MUS 143: Applied Music Piano I (1-2) and
- MUS 243: Applied Music-Piano II (1-2)
- MUS 144: Applied Music Jazz Piano I (1-2) and
- MUS 244: Applied Music-Jazz Piano II (1-2)

MUS 160-188: Applied Music Instrument I (1-2) and
- MUS 260-288: Applied Music Instrument II (1-2)

INTERNATIONAL/MULTICULTURAL REQUIREMENTS

Include one course in International/Multicultural Education—Choose one course with a + following the course number. This course can fulfill both the I/M requirement and a Social Science, Humanities, or Fine Arts requirement.

Total A.F.A. in Music Degree Requirements - 63 credit hours

OTHER GRADUATION REQUIREMENTS

- Cumulative CLC GPA of 2.00 or higher
- Completion of at least 15 credit hours at CLC

Petition to Graduate: The Petition to Graduate form must be submitted to the Welcome and One-Stop Center to have your degree processed. It can be found online at www.clcillinois.edu/petition. Contact Admissions for more information at (847) 543-2061. Deadlines to Petition:
  - Spring – October 1
  - Fall – February 15; Summer – July 1;
ART
Communication Arts, Humanities and Fine Arts Division, Room B213, (847) 543-2040
www.clcillinois.edu/programs/art

Degree: Associate in Arts
Plan 13AB

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37. All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

FIRST SEMESTER
15
ENG 121 English Composition I 3
ART 122 Two Dimensional Design 3
ART 124 Drawing I 3
ART 240 History of Art I 3
Math Elective 3

SECOND SEMESTER
15
ENG 122 English Composition II 3
ART 127 Drawing II 3
ART 241 History of ART II 3
ART 221 3Dimensional Design 3
Physical and Life Science Without Lab 3

THIRD SEMESTER
16
CMM 121 Fundamentals of Speech 3
ART 225 Figure Drawing 3
Humanities Elective 3
Physical and Life Science With Lab 4
Art Studio Elective 3

FOURTH SEMESTER
15
Social Science Electives 9
ART Studio Electives 6

ART STUDIO ELECTIVES
ART 123 Color and Design Techniques 3
ART 129 Photography I 3
ART 149 Digital Photography I 3
ART 222 Computer Art I 3
ART 223 Sculpture I 3
ART 224 Painting I 3
ART 226 Ceramics I 3
ART 227 Painting II 3
ART 228 Sculpture II 3
ART 229 Photography II 3
ART 245 Jewelry I 3
ART 246 Ceramics II 3
ART 249 Digital Photography II 3

For information on the Associate in Fine Arts in Art, see page 61.

Note: This plan includes recommendations for students who plan to major in this subject at a four year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses or program specific advising, contact the following faculty or the Communication Arts, Humanities and Fine Arts Division at (847) 543-2040.

David Bolton | Hans Habeger
Robert Lossmann
DANCE
Communication Arts, Humanities and Fine Arts Division, Room B213, (847) 543-2040
www.clcillinois.edu/programs/dnc

Degree: Associate in Arts
Plan 13AB

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

### FIRST SEMESTER

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<td>DNC 121</td>
<td>Introduction to Ballet</td>
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<td>DNC 122</td>
<td>Modern Dance Technique I</td>
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<td>MUS 124</td>
<td>Introduction to Music</td>
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<td>ENG 121</td>
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<td>Intermediate Modern Technique</td>
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<td>The Art of Dance</td>
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<td>ENG 122</td>
<td>Physical and Life Science Without Lab Elective</td>
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### THIRD SEMESTER

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<tr>
<td>DNC 123</td>
<td>Jazz Technique</td>
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<td>CMM 121</td>
<td>Fundamentals of Speech</td>
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### FOURTH SEMESTER

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<td>DNC 129</td>
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<tr>
<td></td>
<td>Physical and Life Science With Lab Elective</td>
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**Note:** This plan includes recommendations for students who plan to major in this subject at a four year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses or program specific advising, contact the following faculty or the Communication Arts, Humanities and Fine Arts Division at (847) 543-2040.

Valerie Alpert | Therese Crews

DANCE CONCENTRATION/ELECTIVES

**CHOOSE 3 CREDITS**

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<td>DNC 141</td>
<td>Beginning Hip Hop</td>
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<td>DNC 143</td>
<td>Beginning Tap</td>
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<td>DNC 160</td>
<td>Teaching Methods I</td>
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<td>DNC 223</td>
<td>Intermediate Jazz Technique</td>
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<td>DNC 224</td>
<td>Intermediate Yoga</td>
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<td>DNC 241</td>
<td>Intermediate Hip Hop</td>
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**DIGITAL MEDIA AND DESIGN**

Communication Arts, Humanities and Fine Arts Division, Room B213, (847) 543-2040  
www.clcillinois.edu/programs/dmd

**Degree:** Associate in Applied Science, Digital Media and Design  
Plan 23TB

The Digital Media and Design Associate in Applied Science Degree provides students with the conceptual, critical, creative and technical skills needed to design and produce a variety of commercial, educational and artistic media and design projects. Building on conventional communication formats, Digital Media and Design will explore the realm of new media, creating art and design works such as digital sound and music, still and moving images, 3D models, 2D and 3D animations, Web, video and interactive media. This is a robust curriculum designed to keep up with industry developments and trends.

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

**ANIMATION SPECIALTY OPTION**

**FIRST SEMESTER**  
<table>
<thead>
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<th>Course</th>
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<td>English Composition I</td>
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<td>DMD 111</td>
<td>Introduction to Digital Media</td>
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<tr>
<td>DMD 157</td>
<td>Introduction to Animation</td>
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<tr>
<td>ART 122</td>
<td>Two Dimensional Design</td>
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<tr>
<td>ART 222</td>
<td>Computer Art I</td>
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**SECOND SEMESTER**  
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<td>MTH 117</td>
<td>Technical Mathematics I or College Algebra</td>
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<td>MTH 122</td>
<td>College Algebra or Contemporary Math</td>
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<td>MTH 140</td>
<td>Contemporary Math or Quantitative Literacy or Higher Math Elective</td>
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<td>Web Design and Development</td>
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<td>DMD 233</td>
<td>Video Editing</td>
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<tr>
<td>ART 124</td>
<td>Drawing I</td>
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<td>ART 263</td>
<td>2D Computer Animation</td>
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**SUMMER SESSION**  
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<tr>
<td>PSY 121</td>
<td>Introduction to Psychology or PSY 122</td>
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<td>PSY 122</td>
<td>Psychology in Business and Industry</td>
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<tr>
<td>ART 149</td>
<td>Digital Photography I</td>
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**THIRD SEMESTER**  
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<td>CMM 121</td>
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<td>CMM 122</td>
<td>Business and Professional Speaking or CMM 128</td>
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<td>CMM 128</td>
<td>Interviewing Practices</td>
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<td>DMD 173</td>
<td>Introduction to Digital Sound</td>
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<tr>
<td>DMD 251</td>
<td>Advanced 3D Modeling</td>
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<tr>
<td>ART 225</td>
<td>Figure Drawing</td>
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<td>ART 264</td>
<td>3D Computer Animation</td>
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**FOURTH SEMESTER**  
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<td>Concepts in New Media</td>
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<td>Interactive Scripting</td>
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<td>DMD 253</td>
<td>Advanced 3D Animation</td>
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<td>DMD 259</td>
<td>3D Special Effects</td>
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**ADDITIONAL REQUIRED COURSEWORK**  
Select 3 hours from the list below:

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<th>Course</th>
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<td>BUS 121</td>
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<tr>
<td>BUS 219</td>
<td>Small Business Management</td>
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<tr>
<td>BUS 290</td>
<td>Business Plan Development</td>
</tr>
<tr>
<td>ENG 126</td>
<td>Advanced Composition: Scientific Technical Communication</td>
</tr>
<tr>
<td>ENG 220</td>
<td>Introduction to Scriptwriting for Video, TV and Film</td>
</tr>
<tr>
<td>DNC Elective</td>
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<tr>
<td>HUM 123</td>
<td>Introduction to Film</td>
</tr>
<tr>
<td>HUM 222</td>
<td>Film and Society</td>
</tr>
<tr>
<td>MUS Elective</td>
<td>3</td>
</tr>
</tbody>
</table>
GRAPHIC DESIGN SPECIALTY OPTION

**FIRST SEMESTER**  
(FALL PREFERRED START)
- **ENG 120** Technical Composition I or English Composition I 3
- **DMD 113** History of Graphic Design 3
- **ART 271** Introduction to Electronic Graphic Publishing or Introduction to Graphic Design 3
- **DMD 115** Introduction to Digital Media 3
- **DMD 111** Introduction to Graphic Design 3

**SECOND SEMESTER**  
(SPRING WITH FALL START)
- **ART 111** ART Printing Production or DMD 125 DMD Printing Production 3
- **DMD 174** Typography 3
- **DMD 116** Web Design and Development 3
- **ART 222** Computer Art I 3
- **MTH 114** Applied Mathematics or Technical Mathematics or College Algebra or Contemporary Math or Quantitative Literacy or Higher MTH Elective 3-5

**THIRD SEMESTER**  
(SUMMER WITH FALL START)
- **PHI 122** Logic 3

**FOURTH SEMESTER**  
(SUMMER WITH FALL START)
- **BUS 121** Introduction to Business 3
- **BUS 219** Small Business Management 3
- **BUS 290** Business Plan Development 3
- **ENG 120** Technical Composition I or English Composition I 3
- **ENG 113** Technical Communication Practicum or Professional Communication or Job Readiness Skills and Experience I Additional Required Course Select 3 credit hours from: list in below 3

**FIFTH SEMESTER**  
- **DMD 279** Packaging and Design 3
- **ART 221** Three Dimensional Design 3
- **PHI 122** Logic 3
- **ENG 113** Technical Communication Practicum or Professional Communication or Job Readiness Skills and Experience I Additional Required Course Select 3 credit hours from: list in below 3
- **ENG 266** Cooperative Work Experience I 3
- **EVE 120** Introduction to Digital Media 3
- **EVE 220** Introduction to Graphic Publishing 3

**WEB DEVELOPMENT AND INTERACTIVE DESIGN SPECIALTY OPTION**

**FIRST SEMESTER**  
(FALL PREFERRED START)
- **ENG 120** Technical Composition I or English Composition I 3
- **DMD 111** Introduction to Digital Media 3
- **DMD 113** History of Graphic Design 3
- **DMD 116** Web Design and Development 3
- **ART 222** Computer Art I 3
- **EVE 120** Introduction to Electronic Graphic Publishing or Introduction to Graphic Design 3
- **EVE 220** Introduction to Digital Media 3

**SECOND SEMESTER**  
(SPRING WITH FALL START)
- **DMD 216** Interactive Scripting or CIT 171 Web Page Scripting 3
- **ART 149** Digital Photography I 3
- **ART 122** Two Dimensional Design 3
- **MTH 114** Applied Mathematics or Technical Mathematics or College Algebra or Contemporary Math or Quantitative Literacy or Higher MTH Elective 3-5
- **ART, CAD, CIT or DMD** Elective: Choose from ART, CAD, CIT or DMD from Animation, video, audio, game, Photography, CAD, database, networking, etc. 3

**THIRD SEMESTER**  
(SUMMER WITH FALL START)
- **PHI 122** Logic 3

**FOURTH SEMESTER**  
(SUMMER WITH FALL START)
- **DMD 218** Advanced Web Design and Development 3
- **DMD 157** Introduction to Animation 3
- **DMD 115** Internet Fundamentals 3
- **DMD 117** Introduction to Animation 3
- **DMD 157** Introduction to Animation 3
- **DMD 115** Internet Fundamentals 3
- **ART 222** Computer Art I 3
- **DMD 121** Introduction to Graphic Design 3
- **DMD 115** Introduction to Digital Media 3
- **DMD 111** Introduction to Graphic Design 3
- **ART 222** Computer Art I 3

**SIXTH SEMESTER**  
- **MTH 114** Applied Mathematics or Technical Mathematics or College Algebra or Contemporary Math or Quantitative Literacy or Higher MTH Elective 3-5
- **ART 149** Digital Photography I 3
- **ART 122** Two Dimensional Design 3
- **MTH 114** Applied Mathematics or Technical Mathematics or College Algebra or Contemporary Math or Quantitative Literacy or Higher MTH Elective 3-5
- **CMM 121** Fundamentals of Speech or Business and Professional Speaking or Interviewing Practices 3
- **CMM 122** Fundamentals of Speech or Business and Professional Speaking or Interviewing Practices 3

Continued on next page.
**ARTS, ENTERTAINMENT AND HOSPITALITY PROGRAMS**

**FIFTH SEMESTER**
- **DMD 256** Dynamic Web Design and Development 3
- **DMD 257** Interactive Animation 3
- **ART 111** ART Printing Production or 3
- **DMD 125** DMD Printing Production 3
- **DMD 117** Concepts in New Media 3
- **ENG 113** Technical Communication Practicum or 3
- **ENG 266** Professional Communication or 3
- **EWE 120** Job Readiness Skills and 3
- **EWE 220** Cooperative Work Experience I 3

**SIXTH SEMESTER**
- **ANT 121** Introduction to Anthropology or 3
- **PSY 121** Introduction to Psychology or 3
- **PSY 122** Psychology in Business and Industry 3

Total hours for A.A.S. Degree 66 to 68

**ADDITIONAL REQUIRED COURSEWORK**
Select 3 hours from the list below:
- **BUS 121** Introduction to Business 3
- **BUS 219** Small Business Management 3
- **BUS 290** Business Plan Development 3
- **ENG 126** Advanced Composition: Scientific Technical Communication 3
- **ENG 220** Introduction to Scriptwriting for Video, TV and Film 3
- **HUM 123** Introduction to Film 3
- **HUM 222** Film and Society 3
- **DNC Elective** 3
- **MUS Elective** 3

**DIGITAL A/V PRODUCTION AND EDITING**
*Degree: Associate in Applied Science, Digital A/V Production and Editing Plan 23TM*

The Digital Media and Design Associate in Applied Science Degree in Digital A/V Production and Editing provides you with the conceptual, critical, creative and technical skills you’ll need to create and produce a variety of commercial, educational and artistic audio and video projects. Building on conventional audio and video communication formats, Digital A/V Production and Editing will explore the realm of new media, creating art and design works including digital sound and music, still and moving images, compositing, special effects, 2D and 3D animations, Web, video and interactive media. We have created a robust curriculum that will keep up with industry developments and trends.

To complete an A.A.S., students are **strongly encouraged** to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

**FIRST SEMESTER**
- **ANT 121** Introduction to Anthropology or 3
- **PSY 121** Introduction to Psychology or 3
- **PSY 122** Psychology in Business and Industry 3
- **DMD 111** Introduction to Digital Media 3
- **DMD 173** Introduction to Digital Sound 3
- **ART 122** Two Dimensional Design 3
- **ART 222** Computer Art I 3

**SECOND SEMESTER**
- **MTH 114** Applied Mathematics or 3
- **MTH 117** Technical Mathematics I or 3
- **MTH 122** College Algebra or 3
- **MTH 140** Contemporary Math or 3
- **MTH 141** Quantitative Literacy or 3
- **Elective (higher than MTH 141)** 3
- **ART 149** Digital Photography I 3
- **ART 280** Audio Production 3
- **ART 111** Printing Production or 3
- **DMD 125** Printing Production 3
- **DMD 233** Digital Video Editing 3

**SUMMER SESSION**
- **DMD 115** Internet Fundamentals 3

**THIRD SEMESTER**
- **CMM 121** Fundamentals of Speech or 3
- **CMM 122** Business and Professional Speaking or 3
- **CMM 128** Interviewing Practices 3
- **ENG 120** Technical Composition I or 3
- **ENG 121** English Composition I 3
- **DMD 116** Web Design and Development 3
- **DMD 117** Concepts in New Media or 3
- **ENG 126** Advanced Composition: Scientific Technical Communications 3
- **ART 272** Introduction to Video Production 3

**FOURTH SEMESTER**
- **PHI 122** Logic or 3
- **Humanities or Fine Arts Elective (excluding ART courses)** 3
- **Additional Required Coursework*** (see list below) 3
- **DMD 277** Digital Media Delivery 3
- **ART 274** Video Production II 3

*ADDITIONAL REQUIRED COURSEWORK
Select 3 hours from the list below:
- **BUS 121** Introduction to Business 3
- **BUS 219** Small Business Management 3
- **BUS 290** Business Plan Development 3
- **DNC Elective** 3
- **ENG 220** Introduction to Scriptwriting for Video, TV and Film 3
- **HUM 123** Introduction to Film 3
- **HUM 222** Film and Society 3
- **MUS Elective** 3

**DIGITAL A/V PRODUCTION AND EDITING ELECTIVES**
Select 3 hours from the list below:
- **ART 129** Photography I 3
- **ART 249** Digital Photography II 3
- **DMD 157** Introduction to Animation 3
- **DMD 257** Interactive Animation 3

Total Hours for A.A.S. Degree 63-65
### MULTIMEDIA PRESENTATION
(Certificate) Plan 23TE

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<td>ART 272</td>
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<td>DMD 277</td>
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Total hours for Certificate 15

### MULTIMEDIA COMMUNICATIONS
(Certificate) Plan 23TH

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<td>Technical Communication Practicum</td>
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<td>CMM 122</td>
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<td>ENG 266</td>
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<td>Any other DMD course not included in this certificate</td>
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Total hours for Certificate 36

Gainful Employment Information:
www.clcillinois.edu/gedmd

For more information on recommended courses or program specific advising, contact the following faculty or the Communication Arts, Humanities and Fine Arts Division at (847) 543-2040.

Michael Kozien | Yang Xiang
**HOSPITALITY AND CULINARY MANAGEMENT**
Business and Social Sciences Division,
Room T302, (847) 543-2047
www.clcillinois.edu/programs/hcm

**Degree:** Associate in Applied Science, Hospitality and Culinary Management Plan 22FB

The Hospitality and Culinary Management program provides students with technical skills in food production and food operations and prepares students for managerial positions in the hospitality industry. Students can pursue careers as cooks, chefs, bakers, pastry chefs, and supervisors and managers in restaurants, clubs, hotels and resorts. Students acquire skills in food sanitation and safety, culinary principles, baking and pastry, supervision and leadership, menu development, purchasing and cost control.

The Hospitality and Culinary Management program is a partner of the National Restaurant Association Educational Foundation (NRAEF). Upon completion of the A.A.S. degree program students qualify to apply for the NRAEF Diploma, a nationally recognized credential in the hospitality industry. The Hospitality and Culinary Management curriculum is aligned with the educational standards of the American Culinary Federation (ACF). CLC courses in Hospitality Supervision, Nutrition, and ServSafe: Foodservice Sanitation meet the initial certification and/or re-certification requirements for the ACF Chefs Certification Program.

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

<table>
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<td>AOS 122</td>
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<td>HCM 112</td>
<td>Culinary Principles II</td>
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<td>HCM 212</td>
<td>Menu Marketing and Management</td>
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<td>Nutrition</td>
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<td>HCM 214</td>
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<td>CMM 121</td>
<td>Fundamentals of Speech or</td>
</tr>
<tr>
<td>CMM 122</td>
<td>Business and Professional Speaking or</td>
</tr>
<tr>
<td>CMM 123</td>
<td>Dynamics of Small Group Discussion or</td>
</tr>
<tr>
<td>CMM 128</td>
<td>Interviewing Practices</td>
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<table>
<thead>
<tr>
<th>FIFTH SEMESTER</th>
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<tbody>
<tr>
<td>HCM 275</td>
<td>Contemporary Restaurant Principles</td>
</tr>
<tr>
<td>5</td>
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<tr>
<td>HCM 273</td>
<td>Controlling Hospitality Costs</td>
</tr>
<tr>
<td>3</td>
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<tr>
<td>HCM Elective</td>
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<tr>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Total hours for A.A.S. Degree 69

**HCM ELECTIVES**

| HCM 114 | Introduction to Beverage Appreciation |
| 1 |
| HCM 151 | American Regional Cuisine |
| 3 |
| HCM 152 | European Cuisine |
| 3 |
| HCM 153 | Latin American Cuisine |
| 3 |
| HCM 154 | Italian Regional Cuisine |
| 3 |
| HCM 155 | French Regional Cuisine |
| 3 |
| HCM 159 | Culinary Arts Study Abroad |
| 1-3 |
| HCM 271 | Hospitality Leadership |
| 3 |
| HCM 272 | Culinary and Hospitality Internship |
| 3 |
| HCM 299 | Selected Topics in Hospitality |
| 1-5 |
BAKING AND PASTRY ARTS

Degree: Associate in Applied Science, Baking and Pastry Arts
Plan 22FK

The Baking and Pastry Arts program provides students with the knowledge and technical skills needed for employment in the baking and pastry industry. Students can pursue careers as bakers and pastry chefs in bakeries, restaurants, hotels, country clubs, retail stores and catering. Students acquire basic and advanced skills including artisan bread making, European tortes and pastries, chocolate work, frozen desserts, special diets and healthful baking. The program also prepares students for managerial positions in the pastry industry.

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

FIRST SEMESTER
- HCM 110  Introduction to Hospitality Industry 3
- HCM 113  ServSafe: Food Service Sanitation 1
- HCM 170  Patisserie I 5
- AOS 122  Business Math or Applied Mathematics I or higher Math Elective 3
- ENG 120  Technical Composition I or English Composition I 1
- ENG 121  Introduction to Psychology or Industrial/Organizational Psychology 3
- PSY 121  Introduction to Psychology or Industrial/Organizational Psychology 3
- PSY 122  Introduction to Psychology or Industrial/Organizational Psychology 3

SECOND SEMESTER
- HCM 172  Patisserie II 5
- HCM 212  Menu Marketing and Management 3
- HCM 213  Purchasing and Inventory Control 3
- HCM 214  Hospitality Supervision Baking and Pastry Elective (see list) 3

THIRD SEMESTER
- HCM 173  Patisserie III 5
- HCM 175  Nutrition 3
- CMM 121  Fundamentals of Speech or Business and Professional Speaking or Dynamics of Small Group Discussion or Interviewing Practices Humanities or Fine Arts Elective* 4

FOURTH SEMESTER
- HCM 174  Advanced Pastry 5
- HCM 273  Controlling Hospitality Costs Baking and Pastry Elective (see list) 4
- HCM 178  Special Diets and Healthful Baking 4

Total hours for A.A.S. Degree 67-69

BAKING AND PASTRY ELECTIVES
Select at least 9-11 hours from the list below:
- HCM 176  Yeast Breads 3
- HCM 177  Advanced Yeast Breads 3
- HCM 179  Cake Decorating 4
- HCM 180  Chocolate and Confections 3
- HCM 181  Contemporary Restaurant Desserts 3
- HCM 159  Culinary Arts Study Abroad 3
- HCM 272  Culinary and Hospitality Internship 3

PROFESSIONAL CHEF (Certificate) Plan 22FD

This program prepares students for entry-level employment in the food service industry. Courses provide an introduction to the hospitality industry and emphasize hands-on cooking techniques, sanitation and safety. Students learn to use recipes and equipment in a commercial kitchen to prepare stocks, sauces, soups, vegetables, starchy, salads, and salad dressings. Students earn the ServSafe Food Service Sanitation license as a part of this certificate.

FIRST SEMESTER
- HCM 110  Introduction to Hospitality Industry 3
- HCM 111  Culinary Principles I 5
- HCM 113  ServSafe: Food Service Sanitation 1
- HCM 170  Patisserie I 5

SECOND SEMESTER
- HCM 112  Culinary Principles II 5
- HCM 175  Nutrition 3
- HCM 213  Purchasing and Inventory Control 3

THIRD SEMESTER
- HCM 171  Culinary Principles III 5
- HCM 214  Hospitality Supervision 3

Total hours for Certificate 33

Gainful Employment Information: www.clcillinois.edu/gehcm

PROFESSIONAL CHEF (Certificate) Plan 22FH

This program builds upon the Professional Cook Certificate and provides students with advanced level culinary skills. Students learn advanced cooking techniques for meat, poultry, seafood and breakfast cookery as well as basic baking techniques. Courses emphasize nutrition, sanitation and safety, and purchasing and inventory management. Students who complete this certificate meet the American Culinary Federation (ACF) initial certification and recertification requirements for the Sanitation, Nutrition and Supervision courses in the ACF Chefs Certification program.

FIRST SEMESTER
- HCM 110  Introduction to Hospitality Industry 3
- HCM 111  Culinary Principles I 5
- HCM 113  ServSafe: Food Service Sanitation 1
- HCM 170  Patisserie I 5

SECOND SEMESTER
- HCM 112  Culinary Principles II 5
- HCM 175  Nutrition 3
- HCM 213  Purchasing and Inventory Control 3

THIRD SEMESTER
- HCM 171  Culinary Principles III 5
- HCM 214  Hospitality Supervision 3

Total hours for Certificate 33

Gainful Employment Information: www.clcillinois.edu/gehcm

BAKING AND PASTRY ASSISTANT (Certificate) Plan 22FJ

This program prepares students for entry-level employment in bakeshop operations in the food service industry, including bakeries, restaurants, hotels, country clubs, retail stores, catering, institutional foodservice and commercial foodservice operations. The program provides students with an understanding of the varied career choices in the hospitality industry. Students gain a basic level of baking and pastry skills and competence in food safety and sanitation practices. Students learn how to use recipes and prepare a variety of breads and pastries including quick breads, yeast breads, pies,
### ARTS, ENTERTAINMENT AND HOSPITALITY PROGRAMS

### DEGREES/CERTIFICATES

pastry, tarts, custards, mousses, and cakes, as well as plate presentation. Students earn the ServSafe Foodservice Sanitation license as a part of this certificate.

**FIRST SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCM 110</td>
<td>Introduction to Hospitality Industry</td>
<td>9</td>
</tr>
<tr>
<td>HCM 113</td>
<td>ServSafe: Food Service Sanitation</td>
<td>3</td>
</tr>
<tr>
<td>HCM 170</td>
<td>Patisserie I</td>
<td>5</td>
</tr>
</tbody>
</table>

**SECOND SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCM 172</td>
<td>Patisserie II</td>
<td>8</td>
</tr>
<tr>
<td>HCM 214</td>
<td>Hospitality Supervision</td>
<td>3</td>
</tr>
</tbody>
</table>

Total hours for Certificate: 17

Gainful Employment Information: www.clcillinois.edu/gehcm

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### BAKING AND PASTRY ELECTIVES

Select at least 9 hours from the list below:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCM 176</td>
<td>Yeast Breads</td>
<td>3</td>
</tr>
<tr>
<td>HCM 177</td>
<td>Advanced Yeast Breads</td>
<td>3</td>
</tr>
<tr>
<td>HCM 178</td>
<td>Special Diets and Healthful Baking</td>
<td>4</td>
</tr>
<tr>
<td>HCM 179</td>
<td>Cake Decorating</td>
<td>4</td>
</tr>
<tr>
<td>HCM 180</td>
<td>Chocolate and Confections</td>
<td>3</td>
</tr>
<tr>
<td>HCM 272</td>
<td>Culinary and Hospitality Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

Gainful Employment Information: www.clcillinois.edu/gehcm

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### HOSPITALITY SUPERVISOR (Certificate) Plan 22FG

This program prepares students for entry-level supervisory positions in restaurants, hotels, country clubs, catering, institutional foodservice and commercial foodservice operations. The program provides students with an understanding of the varied career choices in the hospitality industry. Students gain a basic level of cooking skills, and competence in food safety and sanitation practices. Students learn basic supervisory techniques, purchasing, and inventory control.

As a part of this certificate, students earn the ServSafe Foodservice Sanitation license and the National Restaurant Association Educational Foundation (NRAEF) ManageFirst certificates for the Introduction to the Hospitality Industry course, Hospitality Supervision course, and Purchasing and Inventory Control course.

**FIRST SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCM 110</td>
<td>Introduction to Hospitality Industry</td>
<td>9</td>
</tr>
<tr>
<td>HCM 111</td>
<td>Culinary Principles I</td>
<td>5</td>
</tr>
<tr>
<td>HCM 113</td>
<td>ServSafe: Food Service Sanitation</td>
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**SECOND SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>HCM 175</td>
<td>Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>HCM 213</td>
<td>Purchasing and Inventory Control</td>
<td>3</td>
</tr>
<tr>
<td>HCM 214</td>
<td>Hospitality Supervision</td>
<td>3</td>
</tr>
</tbody>
</table>

Total hours for Certificate: 18

Gainful Employment Information: www.clcillinois.edu/gehcm

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### HOSPITALITY MANAGER (Certificate) Plan 22FI

This program builds upon the Hospitality Supervisor Certificate and prepares students for advanced level employment as a member of a management team in the hospitality industry.

This certificate emphasizes the development and application of managerial and leadership skills. Students acquire skills in menu design, cost control, and continuous improvement.

Upon completion of this certificate students will meet the American Culinary Federation (ACF) initial certification and re-certification requirements for the Sanitation, Nutrition, and Supervision courses for the ACF Chefs Certification program.

First, students must achieve the ACF Certifed Chef (ACF) Initial certification and the NRAEF ManageFirst: Foodservice Sanitation certification, then achieve the ACF Certifed Chef (ACF) Initial certification and the NRAEF ManageFirst: Foodservice Sanitation certification, then achieve the ACF Certifed Executive Chef (ACF) Initial certification.

**FIRST SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCM 110</td>
<td>Introduction to Hospitality Industry</td>
<td>9</td>
</tr>
<tr>
<td>HCM 111</td>
<td>Culinary Principles I</td>
<td>5</td>
</tr>
<tr>
<td>HCM 113</td>
<td>ServSafe: Food Service Sanitation</td>
<td>1</td>
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**SECOND SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<td>HCM 122</td>
<td>Menu Marketing and Management</td>
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<tr>
<td>HCM 213</td>
<td>Purchasing and Inventory Control</td>
<td>3</td>
</tr>
<tr>
<td>HCM 214</td>
<td>Hospitality Supervision</td>
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**THIRD SEMESTER**

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>HCM 175</td>
<td>Nutrition</td>
<td>3</td>
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<tr>
<td>HCM 271</td>
<td>Hospitality Leadership</td>
<td>3</td>
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<tr>
<td>HCM 273</td>
<td>Controlling Hospitality Costs</td>
<td>3</td>
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<tr>
<td>HCM 272</td>
<td>Culinary and Hospitality Internship or HCM Elective</td>
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Total hours for Certificate: 35

Gainful Employment Information: www.clcillinois.edu/gehcm

For more information on recommended courses or program specific advising, contact the following faculty members or the Business and Social Sciences Division at (847) 543-2047.

Teresa Novinska | William Vena | Rob Wygant
MUSIC
Communication Arts, Humanities and Fine Arts Division, Room B213, (847) 543-2040
www.clcillinois.edu/programs/mus

Degree: Associate in Arts
Plan 13AB

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

FIRST SEMESTER
<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>MUS 120</td>
<td>Applied Music</td>
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<tr>
<td>MUS 128</td>
<td>Theory of Music I</td>
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<tr>
<td>MUS 125</td>
<td>Aural Skills I</td>
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<td>MTH Elective</td>
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<tr>
<td>Humanities Elective</td>
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<tr>
<td>English Elective</td>
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SECOND SEMESTER
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<th>Course</th>
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<tbody>
<tr>
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<tr>
<td>MUS 129</td>
<td>Theory of Music II</td>
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<tr>
<td>MUS 126</td>
<td>Aural Skills II</td>
</tr>
<tr>
<td>Social/Behavioral Science Elective</td>
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<td>Humanities Elective</td>
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<td>English Elective</td>
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THIRD SEMESTER
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<td>MUS 120</td>
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<td>MUS 228</td>
<td>Theory of Music III</td>
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<tr>
<td>MUS 225</td>
<td>Aural Skills III</td>
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<tr>
<td>Physical and/or Life Science Elective</td>
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<tr>
<td>Speech Elective</td>
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FOURTH SEMESTER
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<td>MUS 226</td>
<td>Theory of Music IV</td>
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<td>Physical and/or Life Science Elective</td>
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<td>Humanities Elective</td>
<td>3</td>
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<tr>
<td>Social and Behavioral Science Elective</td>
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</tbody>
</table>

For information on the Associate in Fine Arts in Music, see page 63.

Note: This plan includes recommendations for students who plan to major in this subject at a four year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses or program specific advising, contact Michael Flack at (847) 2566 or the Communication Arts, Humanities and Fine Arts Division at (847) 543-2040.
THEATRE-PERFORMANCE (ACTING/DIRECTING)
Communication Arts, Humanities and Fine Arts Division, Room B213, (847) 543-2040
www.clcillinois.edu/programs/the

Degree: Associate in Arts
Plan 13AB

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

FIRST SEMESTER 15
ENG 121 English Composition I 3
THE 121 Introduction to Theatre 3
THE 125 Principles of Acting 3
Physical Science without Lab Electives 3
Social Science Elective 3

SECOND SEMESTER 16
ENG 122 English Composition II 3
THE 123 Diversity in American Theatre 3
THE 145 Voice for the Stage 3
THE 229 Stage Make-up 3
Physical Science with Lab Electives 4

THIRD SEMESTER 15
CMM 121 Fundamentals of Speech 3
THE 223 Play Analysis for Production 3
THE 225 Acting II 3
Math Elective 3
Social Science Elective 3

FOURTH SEMESTER 15
THE 126 Stagecraft 3
THE 228 Directing 3
THE Performance Elective* 3
Humanities Elective** 3
Social Science Elective 3

* Choose from the list of Theatre Performance courses on pages 391-392. Fourth Semester recommendations include: THE 299 Special Topics; THE 129 Theatre Practicum; or THE 127 Theatre Practicum II.
** See the list of recommended Humanities courses on page 59. Fourth Semester recommendation: ENG 227 Introduction to Shakespeare.

One course must meet the International/Multicultural requirement. See page 37 for a list of these courses. THE 123 Diversity in American Theatre meets the I/M requirement.

Note: This plan includes recommendations for students who plan to major in this subject at a four year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses or program specific advising, contact Craig Rich at (847) 543-2567 or the Communication Arts, Humanities and Fine Arts Division at (847) 543-2040.
THEATRE-TECHNICAL
(DESIGN / STAGE MANAGEMENT)
Communication Arts, Humanities and Fine
Arts Division, Room B213, (847) 543-2040
www.clcillinois.edu/programs/the

Degree: Associate in Arts
Plan 13AB

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

FIRST SEMESTER 15
ENG 121 English Composition I 3
THE 121 Introduction to Theatre 3
THE 126 Stagecraft 3
Physical Science without Lab Electives 3
Social Science Elective 3

SECOND SEMESTER 16
ENG 122 English Composition II 3
THE 123 Diversity in American Theatre 3
THE 125 Principles of Acting 3
THE 128 Introduction to Theatrical Costuming 3
Physical Science with Lab Electives 4

THIRD SEMESTER 15
CMM 121 Fundamentals of Speech 3
THE 223 Play Analysis for Production 3
THE 226 Lighting for Stage and Studio 3
Math Elective 3
Social Science Elective 3

FOURTH SEMESTER 15
THE 127 Theatre Practicum II or 3
THE 129 Theatre Practicum 1-3
THE 228 Directing 3
THE 299 Special Topics in Theatre* 3
Humanities Elective** 3
Social Science Elective 3

* Choose from the list of Theatre Performance courses on pages 391-392. Recommended THE Special Topics courses include Stage Management and Scene Painting.
** See the list of recommended Humanities courses on page 59. Fourth Semester recommendation: ENG 227 Introduction to Shakespeare.

One course must meet the International/Multicultural requirement. See page 37 for a list of these courses. THE 123 Diversity in American Theatre meets the I/M requirement.

Note: This plan includes recommendations for students who plan to major in this subject at a four year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses or program specific advising, contact Craig Rich at (847) 543-2567 or the Communication Arts, Humanities and Fine Arts Division at (847) 543-2040.
DEGREES/CERTIFICATES

BUSINESS PATHWAY

ACCOUNTING
ADMINISTRATIVE MANAGEMENT AND TECHNOLOGY
BUSINESS ADMINISTRATION
COMPUTER INFORMATION TECHNOLOGY
COMPUTER SCIENCE (SEE PAGE 173)
ECONOMICS
SUPPLY CHAIN MANAGEMENT

BUSINESS AND INFORMATION TECHNOLOGY
WHAT IS YOUR PLAN AFTER CLC?

I WANT TO TRANSFER TO A FOUR-YEAR COLLEGE OR UNIVERSITY.

The Associate in Arts (A.A.), Associate in Science (A.S.) or other specially focused transfer degrees will probably be your best bet.

- **Associate in Arts (A.A.) degree** - typically ranges from 60-64 credit hours and should parallel the first two years of a liberal arts-related baccalaureate degree program.
- **Associate in Science (A.S.) degree** - typically ranges from 60-64 credit hours and should parallel the first two years of a science-related baccalaureate degree program.
- There are other specialized Associate’s transfer degrees in Engineering and Fine Arts (Art and Music).

Some colleges will accept credits earned through an Associate in Applied Science (A.A.S.) but it would be best to confirm with the school you plan to attend next.

Whatever your plan, it is best to think about what college and major you would like to transfer to and design your coursework around the requirements of that institution. Student development counselors are experts on transfer planning and are happy to help!

I WANT TO START WORKING IN MY CHOSEN FIELD.

The Associate in Applied Science (A.A.S) is a degree designed to help students get into their chosen careers with the knowledge and skills needed by specific industries. These programs were created to provide tangible abilities in a field so that you can either find a job or upgrade your current job when you leave CLC.

Many programs also offer short-term certificates that can help get you into the workforce quickly. These certificates may cover a specific proficiency or technical ability to give you a jumpstart in the field. Many can be stacked together to work toward a degree.

- **Associate in Applied Science (A.A.S.) degree** – typically ranges from 60-72 credit hours and focuses on real-world career skills.
- **Career Certificates** – typically range from 9-30 credit hours and focus on a specialized skill.

I AM NOT REALLY SURE WHAT I WANT TO DO NEXT.

That is okay! At CLC, there are many people such as student development counselors, career counselors, academic advisors, and faculty who can help you discover your path. Page 21 has contact information for the people that can help. If you would like to discuss career interests or talk to someone about taking classes that could work for many degree or certificate options, stop by the Counseling, Advising, and Transfer Center.

This catalog is organized by fields of interest. Reading through this information may help spur an idea for you to explore further. For example, you may be interested in the Healthcare field; the Wellness and Health Sciences field of interest offers many options for you to consider.
ASSOCIATE IN ARTS (13AB)

Students may obtain an Associate in Arts degree from the College of Lake County by successfully meeting college requirements and course requirements outlined below.

The College of Lake County is a participant in the Illinois Articulation Initiative (IAI), a major statewide cooperative agreement that eases the transfer process of the completed Illinois General Education Core Curriculum among participating institutions.

COMMUNICATION - 9 CREDIT HOURS

A grade of C or better is required for both ENG courses.

- ENG 121 English Composition I (3) 
- ENG 122 English Composition II (3)
- ENG 126 Advanced Composition: Scientific and Technical Communications (3)

SOCIAL AND BEHAVIORAL SCIENCE - 9 CREDIT HOURS

Select courses from at least two different disciplines i.e. different prefixes.

- ANT 121+ Introduction to Anthropology (3) 
- ANT 221+ Cultural Anthropology (3)
- ANT 222 Introduction to Physical Anthropology (3)
- ANT 224 Introduction to Archaeology (3)
- ANT 228+ Cross-Cultural Relationships (3)
- ECO 221 Principles of Macroeconomics (3) 
- ECO 222 Principles of Microeconomics (3)
- GEG 122 Cultural Geography (3) 
- GEG 123 World Regional Geography (3)
- GXS 121+ Introduction to Gender Studies (3)
- GXS 229+ Sex, Gender, and Power (3)

PHYSICAL AND LIFE SCIENCES - 7 CREDIT HOURS

One course must be selected from Physical Science and one course from Life Science. At least one course must be a laboratory science course (L).

PHYSICAL SCIENCE

- CHM 120L (LAB) Chemical Concepts (4)
- CHM 121L (LAB) General Chemistry I (5)
- CHM 140 (LAB) Chemistry for a Changing World (3) 
- CHM 142L (LAB) Chemistry for a Changing World (4) 
- ESC 120L (LAB) Earth Science (4) 
- ESC 121L (LAB) Physical Geology (4)
- ESC 123 Introduction to Meteorology (3)
- ESC 124 Oceanography (3) 
- ESC 125 Geology of National Parks (3)

LIFE SCIENCE

- BIO 120L (LAB) Environmental Biology (4) 
- BIO 123L (LAB) Principles of Biology (4)
- BIO 127 Introduction to Evolution (3)
- BIO 140 Environmental Biology without Lab (3) 
- BIO 141L (LAB) Concepts of Biology (4)
- BIO 149 Genetics and Society (3)
- BIO 161L (LAB) General Biology I (4)

MATHMATICS – 3 CREDIT HOURS

- MTH 127 Finite Mathematics I (3)
- MTH 140 Contemporary Mathematics (3)
- MTH 141 Quantitative Literacy (3)
- MTH 142 General Education Statistics (3)
- MTH 145 Calculus and Analytic Geometry I (5) 
- MTH 146 Calculus and Analytic Geometry II (4) 
- MTH 221 Mathematics for Elementary Teaching II (3)
- MTH 222 Business Statistics (4)
- MTH 224 Calculus for Business and Social Science (4)
- MTH 244 Discrete Mathematics (3)
- MTH 246 Calculus and Analytic Geometry III (5)
HUMANITIES AND FINE ARTS – 9 CREDIT HOURS

At least one course must be selected from the Humanities section and one course from the Fine Arts section.

HUMANITIES
- ARA 222+ Intermediate Modern Standard Arabic II (4)
- CHI 222+ Intermediate Chinese II (4)
- ENG 129+ Women in Literature (3)
- ENG 223 Early American Literature (3)
- ENG 225 Survey of British Literature I (3)
- ENG 226 Survey of British Literature II (3)
- ENG 227 Introduction to Shakespeare (3)
- ENG 228+ World Literature (3)
- ENG 229 20th Century American Literature (3)
- ENG 241 Introduction to Poetry (3)
- ENG 243 Introduction to Fiction (3)
- ENG 244+ Mythology and Fairy Tales (3)
- ENG 246+ Latin American Writers (3)
- ENG 247+ International Women Writers (3)
- ENG 249 Children’s Literature (3)
- FRN 222+ Intermediate French II (4)
- FRN 223 French Civilization I (3)
- FRN 224 French Civilization II (3)
- GER 222+ Intermediate German II (4)
- GER 224 German Civilization II (3)
- HUM 121+ Humanities: Ancient Times to the Middle Ages (3)
- HUM 122+ Humanities: Renaissance to the Present (3)
- HUM 127+ Introduction to Middle-Eastern Civilizations (3)
- HUM 128+ Introduction to East Asian Civilization (3)
- HUM 129+ World Humanities 20/21st Century (3)
- HUM 141+ American Decades (3)
- HUM 211+ Women and the Arts (3)
- HUM 226+ Women and the Arts (3)

FINE ARTS
- ART 121 Introduction to Art (3)
- ART 240+ History of Art I (3)
- ART 241+ History of Art II (3)
- ART 260 History of Photography (3)
- ART 261+ History of Western Art History (3)
- DNC 240+ The Art of Dance (3)
- HUM 121+ Introduction to Theatre I (3)
- HUM 122+ Introduction to Theatre II (3)
- HUM 123+ Introduction to Film (3)
- HUM 126+ Introduction to Performing Arts (3)
- HUM 129+ Introduction to East Asian Civilization (3)
- HUM 140+ World Humanities 20/21st Century (3)
- HUM 141+ American Decades (3)
- HUM 222+ Film and Society (3)
- HUM 226+ Women and the Arts (3)
- MUS 124 Music Appreciation (3)
- MUS 224 Music Literature (3)
- THE 121 Introduction to Theatre I (3)
- THE 123+ Diversity in American Theatre (3)

INTERATIONAL/MULTICULTURAL REQUIREMENTS

Choose one course with a + following the course number OR one of the following: ASI 121, CMM 127, ECO 225, EDU 224, ENG 263, 264, GKS 221, 299, HST 128, LAT 121, PDS 123, PHI 128, 129, PSY 229, SSI 121.

This course can fulfill both the I/M requirement and a Social Science, Humanities, Fine Arts, or Elective requirement. A B.A. degree at many four year colleges may require college level foreign language.

AREA OF CONCENTRATION/ELECTIVE REQUIREMENTS - 23 CREDIT HOURS

• Choose elective courses with a 1.1 (transfer course) PCS code that relate to your intended major. Students should choose electives only after consulting with an Advising Professional. The PCS code for each course is listed in the course descriptions starting on page 224 of this catalog. Up to six hours of courses with a 1.2 (career course) PCS code may be used as general electives in the degree. All 199 courses are exempt from this rule. Students should select these courses only after they have verified their transferability with their Advising Professional or the transfer institution. EDU 999 does not count toward this six-hour limit.

• Students may not receive credit towards degree for both CHM 140 and CHM 142, or both BIO 120 and BIO 140, or both ESC 123 and ESC 127.

• Students with credit for both MTH 122 and MTH 123 will not be given credit for MTH 144. Students may not receive credit towards degree for both (MTH 122 and MTH 144) or (MTH 123 and MTH 144).

• Please review lists of recommended courses for individual programs of study listed on pages 58-262 in this catalog.

OTHER GRADUATION REQUIREMENTS

• Cumulative CLC GPA of 2.00 or higher
• Completion of at least 15 credit hours at CLC
• Petition to Graduate: The Petition to Graduate form must be submitted to the Welcome and One-Stop Center to have your degree processed. It can be found online at www.clcillinois.edu/petition. Contact Admissions for more information at (847) 543-2061. Deadlines to Petition: Spring – February 15; Summer – July 1; Fall – October 1
ASSOCIATE IN SCIENCE
(11AB)

The Associate in Science degree is designed to parallel the first two years of a science-related baccalaureate degree program. Students complete freshman and sophomore level courses for majors in such areas as biology, chemistry, physics and related professional fields. Since differences in course requirements exist at different universities and in different science disciplines within the same university, it is important that students work closely with a CLC student development counselor and their transfer school to choose appropriate courses. Completion of the A.S. degree does not fulfill the requirements of the Illinois Articulation Initiative General Education Core Curriculum (IAI GECC).

Many science majors are highly structured and require extensive sequential lower-division mathematics and science courses. In order to take courses required for the major in a similar pattern to those of the freshman and sophomore students at a university, some general education courses are postponed until after transfer. Students then either complete the general education requirements of the transfer institution or are given the opportunity to complete the IAI.

COMMUNICATION - 9 CREDIT HOURS
A grade of C or better is required for both ENG courses.

☐ CMM 121 Fundamentals of Speech (3) C2 900
☐ ENG 121 English Composition I (3) C1 900
☐ ENG 122 English Composition II (3) C1 901 R OR
☐ ENG 126 Advanced Composition: Scientific and Technical Communications (3) C1 901 R

SOCIAL AND BEHAVIORAL SCIENCE - 6 CREDIT HOURS
Select courses from at least two different disciplines i.e. different prefixes.

☐ ANT 121+ Introduction to Anthropology (3) S1 900N
☐ ANT 221+ Cultural Anthropology (3) S1 901N
☐ ANT 222 Introduction to Physical Anthropology (3) S1 902
☐ ANT 224 Introduction to Archaeology (3) S1 903
☐ ANT 228+ Cross-Cultural Relationships (3) S1 904D
☐ ECO 221 Principles of Macroeconomics (3) S3 901
☐ ECO 222 Principles of Microeconomics (3) S3 902

☐ GEG 122 Cultural Geography (3) S4 900N
☐ GEG 123 World Regional Geography (3) S4 900N
☐ GXS 121+ Introduction to Gender Studies (3) S9 900
☐ GXS 229+ Sex, Gender, and Power (3) S7 904D
☐ HST 121+ History of Western Civilization to 1500 (3) S2 902
☐ HST 122+ History of Western Civilization 1500 to Present (3) S2 903
☐ HST 126+ History of Contemporary Non-Western Civilization (3) S2 905N
☐ HST 127+ History of Chinese Culture and Society (3) S2 920N
☐ HST 221 United States History to 1876 (3) S2 900
☐ HST 222 United States History 1876 to Present (3) S2 901
☐ HST 245+ History of Latin America to 1825 (3) S2 920N
☐ HST 246+ History of Latin America from 1825 (3) S2 920N
☐ PSC 121 American National Politics (3) S5 900
☐ PSC 122 State and Local Politics (3) S5 902
☐ PSC 221+ Comparative Political Systems (3) S5 905
☐ PSC 222+ International Relations (3) S5 904N
☐ PSY 121 Introduction to Psychology (3) S6 900
☐ PSY 220 Lifespan Development (3) S6 902
☐ PSY 222 Child Growth and Development (3) S6 903
☐ PSY 225 Social Psychology (3) S8 900
☐ PSY 226 Adolescent Psychology (3) S6 904
☐ SOC 121 Introduction to Sociology (3) S7 900
☐ SOC 222 Social Problems (3) S7 901
☐ SOC 224 Sociology of the Family (3) S7 902
☐ SOC 225+ Class, Race, and Gender (3) S7 903D
☐ SOC 229+ Sex, Gender, and Power (3) S7 904D

PHYSICAL AND LIFE SCIENCES - 11 CREDIT HOURS
One course must be selected from Physical Science and one course from Life Science. Both courses must be IAI and laboratory science courses (L). A third course should be selected from the Physical Science course list or the Life Science course list or the Additional Science course list.

☐ CHM 120L (LAB) Chemical Concepts (4) P1 902L
☐ CHM 121L (LAB) General Chemistry I (5) P1 902L
☐ CHM 142L (LAB) Chemistry for a Changing World (4) P1 903L
☐ ESC 120L (LAB) Earth Science (4) P1 905L
☐ ESC 121L (LAB) Physical Geology (4) P1 907L
☐ ESC 127L (LAB) Introduction to Meteorology (4) P1 905L
☐ ESC 140L (LAB) Introduction to Astronomy (4) P1 906L
☐ GEG 120L (LAB) Physical Geography (4) P1 909L
☐ PHY 120L (LAB) Practical Aspects of Physics (4) P1 901L
☐ PHY 121L (LAB) General Physics I (5) P1 900L
☐ PHY 123L (LAB) Physics for Science and Engineering I (5) P2 900L

LIFE SCIENCE
☐ BIO 120L (LAB) Environmental Biology (4) L1 905L
☐ BIO 123L (LAB) Principles of Biology (4) L1 900L
☐ BIO 141L (LAB) Concepts of Biology (4) L1 900L
☐ BIO 161L (LAB) General Biology I (4) L1 910L

ADDITIONAL SCIENCE COURSE LIST
Any BIO, CHM, ESC, GEG, HRT or PHY course with a 1.1 PCS code, excluding GEG 122 and GEG 123. The PCS code for each course is listed in the course descriptions starting on page 263 of this catalog.

MATHEMATICS – 7 CREDIT HOURS
One course MUST be selected from the courses with an IAI number (shown in bold) in order to meet CLC graduation requirements.

☐ MTH 121 Mathematics for Elementary Teaching (3)
☐ MTH 122 College Algebra (4)
☐ MTH 123 Trigonometry
☐ MTH 127 Finite Mathematics I (3) M1 906
☐ MTH 144 PreCalculus (5)
☐ MTH 145 Calculus and Analytic Geometry I (5) M1 900-1
☐ MTH 146 Calculus and Analytic Geometry II (4) M1 900-2
☐ MTH 221 Mathematics for Elementary Teaching II (3) M1 903
☐ MTH 222 Business Statistics (4) M1 902
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>MTH 224</td>
<td>Calculus for Business and Social Science (4)</td>
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<tr>
<td>MTH 227</td>
<td>Ordinary Differential Equations (4)</td>
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<tr>
<td>MTH 244</td>
<td>Discrete Mathematics</td>
</tr>
<tr>
<td>MTH 246</td>
<td>Calculus and Analytic Geometry III (5)</td>
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<td>German Civilization I (3)</td>
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<tr>
<td>H1 900</td>
<td>German Civilization II (4)</td>
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<tr>
<td>H1 900</td>
<td>German Civilization II (3)</td>
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<tr>
<td>F1 902</td>
<td>Humanities: Ancient Times to the Middle Ages (3)</td>
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<tr>
<td>F1 902</td>
<td>Humanities: Renaissance to the Present (3)</td>
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<tr>
<td>F1 900</td>
<td>Critical Thinking (3)</td>
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<td>F1 900</td>
<td>Logic (3)</td>
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<tr>
<td>F1 900</td>
<td>Philosophy of Religion (3)</td>
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<tr>
<td>F1 900</td>
<td>Introduction to Ethics (3)</td>
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<td>F1 900</td>
<td>World Religions (3)</td>
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<td>F1 900</td>
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<td>Intermediate Russian II (4)</td>
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<td>F1 900</td>
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<td>F1 900</td>
<td>Music Appreciation (3)</td>
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<td>F1 900</td>
<td>Women and the Arts (3)</td>
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<tr>
<td>F1 900</td>
<td>Diversity in American Theatre (3)</td>
</tr>
</tbody>
</table>

**INTERNATIONAL/MULTICULTURAL REQUIREMENTS**

Include one course in International/Multicultural Education—Choose one course with a + following the course number.

**AREA OF CONCENTRATION/ELECTIVE REQUIREMENTS - 21 CREDIT HOURS**

- Choose elective courses with a 1.1 (transfer course) PCS code that relate to your intended major. Students should choose electives only after consulting with an Advising Professional. The PCS code for each course is listed in the course descriptions starting on page 263 of this catalog.

  - **Exception:** Up to six hours of courses with a 1.2 (career course) PCS code may be used as general electives in the degree. All 199 courses are exempt from this rule. Students should select these courses only after they have verified their transferability with their Advising Professional or the transfer institution. EDU 999 does not count toward this six-hour limit.

  - Students may not receive credit towards degree for both CHM 140 and CHM 142, or both BIO 120 and BIO 140, or both ESC 123 and ESC 127.

  - Students with credit for both MTH 122 and MTH 123 will not be given credit for MTH 144. Students may not receive credit towards degree for both (MTH 122 and MTH 144) or (MTH 123 and MTH 144).

  - Please review lists of recommended courses for individual programs of study listed on pages 58-262 in this catalog.

**Total A.S. Degree Requirements**

60 credit hours

**OTHER GRADUATION REQUIREMENTS**

- Cumulative CLC GPA of 2.00 or higher
- Completion of at least 15 credit hours at CLC

**Petition to Graduate:** The Petition to Graduate form must be submitted to the Welcome and One-Stop Center to have your degree processed. It can be found online at [www.clcillinois.edu/petition](http://www.clcillinois.edu/petition). Contact Admissions for more information at (847) 543-2061. Deadlines to Petition: Spring – February 15; Summer – July 1; Fall – October 1
BUSINESS PATHWAY
Business and Social Sciences Division
Room T302, (847) 543-2047

Degree: Associate in Arts
Plan 13AB

This pathway is for students who intend to transfer and major in the business area but have not selected a specific field such as Accounting, Business Administration, or Economics. Students who have decided on a specific intended major in these areas should refer to the recommended course of study on pages 37.

FIRST SEMESTER 15-19
BUS 121 Introduction to Business 3
* Math Requirement 1 3-5
ENG 121 English Composition I 3
PSY 121 Introduction to Psychology 3

SECOND SEMESTER 15-18
ENG 122 English Composition II 3
ECO 221 Principles of Macroeconomics 3
HUM 121 Humanities: Ancient Times to the Middle Ages or 3
HUM 122 Humanities: Renaissance to the Present 3

Prior to selecting your third semester courses, please schedule an appointment with your academic advisor/Student Development Counselor to finalize your academic field of study and desired transfer institution. These decisions will impact which elective courses you should select during your second year.

SUMMER—if needed 3-5
Math Elective 1 3-5

THIRD SEMESTER 13-15
ACC 121 Financial Accounting 4
Business Elective 1 3
ECO 222 Principles of Microeconomics 3
* Math Elective 1 3-5

FOURTH SEMESTER 16
ACC 122 Managerial Accounting 4
CMM 121 Fundamentals of Speech 3
Business Elective 1 3
Humanities or Fine Arts Electives 6

Total Hours for A.A. Degree 60 - 68

1 A student should consult an academic advisor/Student Development Counselor to determine the correct progression of math courses. The math course progression for this degree will vary depending on the student’s choice of 4-year institution in which to transfer and math competency prior to enrolling at CLC. This schedule assumes a student will enroll in four semesters of math. Depending on a student’s transfer goals or math competency, a student may need to enroll in additional math courses or may be able to substitute one of the math slots for an elective course in the second or third semester of these schedules. Transfer Institution: While each transfer institution differs in its math requirements, most require a combination of MTH 224 (Business Calculus), MTH 127 (Finite Mathematics) and/or MTH 222 (Business Statistics). In order to qualify for these courses, students must generally also take MTH 122 (College Algebra). Math Competency: If a student does not meet the prerequisite to enroll in MTH 122, enrollment in developmental courses of MTH 102 and/or MTH 108 may be required. These courses do not apply toward the requirements of the associate degree.
The Associate in Arts degree requires a student to complete a physical science course and a life science course for at least 7 credits altogether. At least one of these science courses must be a laboratory course.

A student should consult an academic advisor/Student Development Counselor to determine the most appropriate elective course. Four-year transfer institutions generally differ in their desired elective course. Please select your desired transfer institution and work with an academic advisor to align your elective course with its admittance requirements. Common elective courses may include: BUS 221, BUS 227, BUS 223, BUS 132, CIT 120 or an additional math course.

Note: This plan includes recommendations for students who plan to major in this subject at a four year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses or program specific advising, contact the Business and Social Sciences Division at (847) 543-2047.
ACCOUNTING
Business and Social Sciences Division
Room T302, (847) 543-2047
www.clcillinois.edu/programs/acc

Degree: Associate in Arts
Plan 13AB

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

FIRST SEMESTER (Fall) 15-17
BUS 121 Introduction to Business 3
MTH Elective 3-5
ENG 121 English Composition I 3
CIT 120 Introduction to Computers 3
PSY 121 Introduction to Psychology 3

SECOND SEMESTER (Spring) 15-19
ENG 122 English Composition II 3
MTH Elective 3-5
ECO 221 Principles of Microeconomics 3
PHI 122 Logic 3

SUMMER 3-5
MTH Elective 3-5

THIRD SEMESTER (Fall) 16-18
ACC 121 Financial Accounting 4
BUS 221 Business Law I 3
ECO 222 Principles of Macroeconomics 3
MTH Elective 3-5
Elective1 3

FOURTH SEMESTER (Spring) 16-17
ACC 122 Managerial Accounting 4
CMM 121 Fundamentals of Speech 3
HUM 121 Humanities: Ancient Times to the Middle Ages 3
Humanities or Fine Arts Elective (I/M) 3

Notes: Students who qualify for MTH 224, MTH 127 and MTH 222 can complete this degree in 60 credits.

1 A student should consult an academic advisor to determine the correct progression of math courses. The math course progression for this degree will vary depending on the student’s 1) choice of 4-year institution to which to transfer and 2) math competency prior to enrolling at CLC. This schedule assumes a student will enroll in four semesters of math. Depending on a student’s transfer goals or math competency, a student may need to enroll in additional math courses or may be able to substitute one of the math slots for an elective course in the second or third semester of these schedules.

Transfer Institution: While each local 4-year transfer institution differs in its math requirements, most require a combination of MTH 224 (Business Calculus), MTH 127 (Finite Mathematics) and/or MTH 222 (Business Statistics). In order to qualify for these courses, students must generally also take MTH 122 (College Algebra). Math Competency: If a student does not meet the prerequisite to enroll in MTH 122, enrollment in developmental courses of MTH 102 and/or MTH 108 may be required. These courses do not apply toward the requirements of the associate degree.

2 A student should consult an academic advisor to determine the most appropriate elective course. Four-year transfer institutions generally differ in their desired elective course. Please select your desired transfer institution and work with an academic advisor to align your elective course with its admittance requirements. Common elective courses may include: BUS 227, BUS 223, BUS 132, BUS 237 or an additional math course.

Note: This plan includes recommendations for students who plan to major in this subject at a four-year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.
ACCOUNTING

Degree: Associate in Applied Science, Accounting
Plan 22AA

Accounting programs prepare students to compile and analyze business records and prepare financial reports such as income statements, balance sheets, costs studies, tax returns, and other internal reports.

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

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<tr>
<th>FIRST SEMESTER (FALL)</th>
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<tr>
<td>ACC 110</td>
<td>Accounting in Business (Track 2) or</td>
</tr>
<tr>
<td>ACC 121*</td>
<td>Financial Accounting (Track 1) 2-4</td>
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<tr>
<td>BUS 121</td>
<td>Introduction to Business 3</td>
</tr>
<tr>
<td>CIT 120*</td>
<td>Introduction to Computers or</td>
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<td>CIT 119</td>
<td>Introduction to Office Software 3</td>
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<tr>
<td>ENG 121</td>
<td>English Composition I 3</td>
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<tr>
<td>MTH 122</td>
<td>College Algebra or</td>
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<td>MTH 127</td>
<td>Finite Mathematics I or</td>
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<tr>
<td>MTH 222</td>
<td>Business Statistics or</td>
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<td>Business Mathematics 3-5</td>
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<td>BUS 221</td>
<td>Business Law I 3</td>
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<td>CIT 111</td>
<td>Comprehensive Spreadsheets 3</td>
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<td>ENG 126</td>
<td>Advanced Composition: Scientific and Technical Communications or Business Communication 3</td>
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<td>AOS 111</td>
<td>Humanities or Fine Arts Elective* 3 (HUM 127 or PHI 122 recommended)</td>
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<tr>
<td>ACC 221</td>
<td>Intermediate Accounting I 4</td>
</tr>
<tr>
<td>ACC 212</td>
<td>Federal Taxation of Individuals 3</td>
</tr>
<tr>
<td>ECO 221</td>
<td>Principles of Macroeconomics and</td>
</tr>
<tr>
<td>ECO 222</td>
<td>Principles of Microeconomics+ or</td>
</tr>
<tr>
<td>ECO 110</td>
<td>Economics for Business and Industry+ Elective (select from list)+</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FOURTH SEMESTER (SPRING)</th>
<th>14</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 222</td>
<td>Intermediate Accounting II 4</td>
</tr>
<tr>
<td>ACC 214</td>
<td>Cost Accounting 3</td>
</tr>
<tr>
<td>CMM 121</td>
<td>Elective (select from list)+</td>
</tr>
<tr>
<td>CMM 128</td>
<td>Fundamentals of Speech or</td>
</tr>
<tr>
<td>CMM 111</td>
<td>Interviewing Practices or</td>
</tr>
<tr>
<td>BUS Electives</td>
<td>Communication Skills 3</td>
</tr>
</tbody>
</table>

Total Hours for AAS Degree 60-67

+ Students taking ECO 221 and ECO 222 are required to complete only five hours of business electives.

ELECTIVES
Select eight hours from the list below:

- ACC 114 Payroll Accounting 2
- ACC 171 Introduction to QuickBooks 2
- ACC 172 Accounting Capstone Experience 1
- ACC 213 Federal Taxation of Entities 3
- ACC 270 Advanced Accounting 4
- ACC 271 Auditing 3
- AOS Electives 1-4
- BUS Electives 1-6
- CIT Electives 1-7
- EWE 120 Job Readiness Skills 1
- EWE 220 Cooperative Work Experience 1-2
- MTH 122 College Algebra or
- MTH 127 Finite Mathematics I or
- MTH 222 Business Statistics or
- MTH 224 Calculus for Business and Social Science 3-4
- PSY 121 Introduction to Psychology or
- PSY 122 Industrial/Organizational Psychology 3

*Preferred courses for students planning to transfer to a 4-year institution.

There are prerequisites for MTH 122. If you do not meet those prerequisites, begin taking those classes this semester – use summer for the additional math class if needed. Certain courses are only offered certain semesters. Please check the course scheduling guide listed on the web.

If needed, students should consider taking ACC 110 in the Summer Session before taking ACC 121.

ACCOUNTING TECHNICIAN
(Certificate) Plan 22AI

This program prepares individuals for positions as accounting or financial services support personnel. Accounting positions require excellent mathematical aptitude, computer skills, good communication skills, and basic accounting knowledge. Most positions require software application skills.

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>14</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 110</td>
<td>Accounting in Business 2</td>
</tr>
<tr>
<td>AOS 111</td>
<td>Business Communication 3</td>
</tr>
<tr>
<td>AOS 122</td>
<td>Business Mathematics 3</td>
</tr>
<tr>
<td>BUS 121</td>
<td>Introduction to Business 3</td>
</tr>
<tr>
<td>CIT 119</td>
<td>Introduction to Office Software 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND SEMESTER</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 121</td>
<td>Financial Accounting 4</td>
</tr>
<tr>
<td>CIT 111</td>
<td>Comprehensive Spreadsheets 3</td>
</tr>
<tr>
<td>ACC 171</td>
<td>Introduction to Quickbooks 2</td>
</tr>
<tr>
<td>ACC 172</td>
<td>Accounting Capstone Experience 1</td>
</tr>
</tbody>
</table>

Total Hours for Certificate 24

Gainful Employment Information: www.clcillinois.edu/geacc
DEGREES/CERTIFICATES

PROFESSIONAL ACCOUNTING CERTIFICATE
TRACK 1
(Certificate) Plan 22AB

This track assumes the student has already completed ACC 121 and ACC 122.

This certificate is designed for individuals who have earned a bachelor’s degree, in any field, and would like to continue their education to qualify to sit for the Certified Public Accountant (CPA) exam.

FIRST SEMESTER
13
ACC 212  Federal Taxation of Individuals  3
ACC 221  Intermediate Accounting I  4
BUS 221  Business Law I  3
BUS 237  Managerial Communication  3

SECOND SEMESTER
14
ACC 213  Federal Taxation of Entities  3
ACC 214  Cost Accounting  3
ACC 222  Intermediate Accounting II  4
ACC 252  Research Topics in Taxation  1
BUS 132  Business Ethics  3

THIRD SEMESTER
4
ACC 251  Financial Accounting Research  1
ACC 271  Auditing  3
(plus 8 credit hours for ACC 121 and ACC 122)

Total Hours for Certificate 39

Gainful Employment Information: www.clcillinois.edu/geacc

PROFESSIONAL ACCOUNTING CERTIFICATE
TRACK 2
(Certificate) Plan 22AB

This is for students who have not taken ACC 121 and ACC 122.

This certificate is designed for individuals who have earned a bachelor’s degree, in any field, and would like to continue their education to qualify to sit for the Certified Public Accountant (CPA) exam.

FIRST SEMESTER (Summer)
4
ACC 121  Financial Accounting  4

SECOND SEMESTER
14
ACC 122  Managerial Accounting  4
ACC 212  Federal Taxation of Individuals  3
ACC 221  Intermediate Accounting I  4
BUS 221  Business Law I  3

THIRD SEMESTER
14
ACC 213  Federal Taxation of Entities  3
ACC 214  Cost Accounting  3
ACC 222  Intermediate Accounting II  4
ACC 252  Research Topics in Taxation  1
BUS 132  Business Ethics  3

FOURTH SEMESTER
7
ACC 251  Financial Accounting Research  1
ACC 271  Auditing  3
BUS 237  Managerial Communication  3

Total Hours for Certificate 39

Gainful Employment Information: www.clcillinois.edu/geacc

The accounting electives, Cost Accounting and Advanced Accounting, are strongly recommended for students preparing to sit for the CPA exam.

Students transferring in the equivalent of ACC 121 and/or ACC 122, for less than eight hours, will need to take additional Accounting electives to meet the required 30 hours in accounting courses.

For students preparing to sit for the CPA exam, the following additional courses are recommended to meet the 24 hour requirement in Business- BUS 111, BUS 121, BUS 222, BUS 223, ECO 221, ECO 222.

Complete CPA Requirements at CLC

To qualify to take the CPA exam in Illinois, a candidate must have:
1. A bachelor’s degree, in any field;
2. 150 semester hours of college credit;
3. 30 semester hours of Accounting credit (included in 150 above), to include courses in Financial, Managerial, Taxation, Auditing and 2 semester hours of Research and Analysis in Accounting; and
4. 24 semester hours in Business, to include Business Ethics (BUS 132) and Managerial Communication (BUS 237). Please note that although BUS 237 is a 3 credit course, only 2 hours of BUS 237 will count toward the 24 semester Business credit requirement.

Additional information and requirements for the CPA exam for those with graduate degrees in business or accounting is available on the Illinois CPA Society web page, www.icpas.org. Exam information may also be found at the Illinois Board of Examiner’s site, www.ilboa.org. All students are encouraged to meet with an accounting faculty member to discuss their plan of study for the CPA exam. Call the Business and Social Sciences Division at (847) 543-2047 for faculty contact information.

Jay Chittal | Patrick Stegman | Jeffrey Varblow
ADMINISTRATIVE PROFESSIONAL

Degree: Associate in Applied Science, Administrative Professional
Plan 22SM

The Administrative Professional degree provides a blend of office automation skills including word processing and related computer applications leading to administrative professional positions in an office environment. In addition, students establish skills in business communication and general business skills and practices.

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

FIRST SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOS 112</td>
<td>Computer Basics/Software Applications</td>
<td>3</td>
</tr>
<tr>
<td>AOS 122</td>
<td>Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>AOS 172</td>
<td>Business English</td>
<td>3</td>
</tr>
<tr>
<td>AOS 178</td>
<td>Intermediate Keyboarding</td>
<td>3</td>
</tr>
<tr>
<td>BUS 121</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
</tbody>
</table>

SECOND SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOS 111</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>AOS 113</td>
<td>Comprehensive Word Processing</td>
<td>3</td>
</tr>
<tr>
<td>*ACC 110</td>
<td>Accounting in Business or</td>
<td>3</td>
</tr>
<tr>
<td>ACC 121</td>
<td>Financial Accounting</td>
<td>2</td>
</tr>
<tr>
<td>CIT 111</td>
<td>Comprehensive Spreadsheets</td>
<td>3</td>
</tr>
<tr>
<td>ENG 121</td>
<td>English Composition I</td>
<td>3</td>
</tr>
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</table>

THIRD SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOS 118</td>
<td>Advanced Word Processing/ Desktop Publishing</td>
<td>3</td>
</tr>
<tr>
<td>AOS 214</td>
<td>Administrative Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>AOS 215</td>
<td>Presentation Software Fundamentals of Speech or Interviewing Practices</td>
<td>3</td>
</tr>
<tr>
<td>CMM 121</td>
<td>Degree Elective</td>
<td>3</td>
</tr>
<tr>
<td>CMM 128</td>
<td>(see AOS Electives List)</td>
<td></td>
</tr>
</tbody>
</table>

FOURTH SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOS 237</td>
<td>Managerial Communication</td>
<td>3</td>
</tr>
<tr>
<td>AOS 216</td>
<td>Integrated Office Projects</td>
<td>3</td>
</tr>
<tr>
<td>PSY 121</td>
<td>Introduction to Psychology or</td>
<td>3</td>
</tr>
<tr>
<td>PSY 122</td>
<td>Industrial/Organizational Psychology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities or Fine Arts Elective*</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Degree Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours for AAS Degree 60-61

*Students will need 7 hours of electives if taking ACC 110.

ADMINISTRATIVE PROFESSIONAL DEGREE ELECTIVES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>AOS Electives</td>
<td></td>
<td>1-6</td>
</tr>
<tr>
<td>(except AOS 170 or AOS 171)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS Electives</td>
<td></td>
<td>1-3</td>
</tr>
<tr>
<td>CIT Electives</td>
<td></td>
<td>1-3</td>
</tr>
<tr>
<td>(except CIT 119 or CIT 120)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EWE 120</td>
<td>Job Readiness Skills</td>
<td>1</td>
</tr>
<tr>
<td>EWE 220</td>
<td>Cooperative Work Experience I</td>
<td>1</td>
</tr>
<tr>
<td>HIT 111</td>
<td>Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>PLS Electives</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>
| Other electives may be chosen with consent of an AOS faculty advisor.

GENERAL OFFICE (Certificate) Plan 22SP

The General Office certificate prepares individuals for office positions such as general office clerk, general office assistant, and clerk-typist. This certificate emphasizes skills needed for entry-level positions and career advancement.

FIRST SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOS 111</td>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>AOS 172</td>
<td>Business English</td>
<td>3</td>
</tr>
<tr>
<td>AOS 170</td>
<td>Computer Keyboarding I</td>
<td>2</td>
</tr>
<tr>
<td>AOS 171</td>
<td>Computer Keyboarding II</td>
<td>2</td>
</tr>
</tbody>
</table>

SECOND SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOS 112</td>
<td>Computer Basics/Software Applications</td>
<td>3</td>
</tr>
<tr>
<td>AOS 113</td>
<td>Comprehensive Word Processing</td>
<td>3</td>
</tr>
<tr>
<td>AOS 178</td>
<td>Intermediate Keyboarding</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours for Certificate 16

Gainful Employment Information:
www.clcillinois.edu/geaos
## OFFICE PROFESSIONAL (Certificate) Plan 22SN

The Office Professional certificate prepares individuals for positions using current industry software. Students complete word processing, presentation software, spreadsheet and information management courses.

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOS 113: Comprehensive Word Processing</td>
<td>3</td>
</tr>
<tr>
<td>AOS 114: Outlook</td>
<td>1</td>
</tr>
<tr>
<td>CIT 111: Comprehensive Spreadsheets</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND SEMESTER</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOS 118: Advanced Word Processing/ Desktop Publishing</td>
<td>3</td>
</tr>
<tr>
<td>AOS 215: Presentation Software</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours for Certificate**: 13

## ADMINISTRATIVE ASSISTANT (Certificate) Plan 22SO

The Administrative Assistant certificate prepares individuals to perform a variety of advanced tasks and assume responsibility in the general office environment in positions with titles such as general office assistant and word processor. This certificate emphasizes word processing and related office skills for both entry-level positions and career advancement.

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOS 112: Computer Basics/Software Applications</td>
<td>3</td>
</tr>
<tr>
<td>AOS 113: Comprehensive Word Processing</td>
<td>3</td>
</tr>
<tr>
<td>AOS 172: Business English</td>
<td>3</td>
</tr>
<tr>
<td>AOS 178: Intermediate Keyboarding</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND SEMESTER</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOS 111: Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>AOS 118: Advanced Word Processing/ Desktop Publishing</td>
<td>3</td>
</tr>
<tr>
<td>AOS 215: Presentation Software</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>THIRD SEMESTER</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOS 214: Administrative Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>CIT 111: Comprehensive Spreadsheets Certificate Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours for Certificate**: 30

Administrative Assistant Certificate Electives

Select 3 hours of electives. Other electives may be chosen with consent of an AOS faculty advisor.

AOS Elective 1-3
(except AOS 170 or AOS 171)
EWE 120: Job Readiness Skills 1
EWE 220: Cooperative Work 1-2
Experience I

Gainful Employment Information:
www.clcillinois.edu/geoaos

## ADMINISTRATIVE LEADERSHIP (Certificate) Plan 22SQ

The Administrative Leadership certificate provides individuals an opportunity to improve skills needed in their present positions and gain competencies necessary for advancement and growth. This certificate concentrates on communication, managerial, and leadership skills for self-development and improved career opportunities.

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOS 214: Administrative Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>AOS 233: Management Skills</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND SEMESTER</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOS 237: Managerial Communication</td>
<td>3</td>
</tr>
<tr>
<td>AOS 253: Leadership</td>
<td>3</td>
</tr>
</tbody>
</table>

**Note**: AOS 233 and AOS 253 are not offered the same semester.

**Total Hours for Certificate**: 12

For more information on recommended courses or program specific advising, contact Joe Gehrke at (847) 543-2528 or the Business and Social Sciences Division at (847) 543-2047.
**BUSINESS ADMINISTRATION**  
Business and Social Sciences Division  
Room T302, (847) 543-2047  
www.clcillinois.edu/programs/bus

**Degree:** Associate in Arts  
**Plan 13AB**

The following courses are **recommended** for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are **strongly encouraged** to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37. All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

### FIRST SEMESTER  
**15-17**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 121</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>MTH* Elective</td>
<td></td>
<td>3-5</td>
</tr>
<tr>
<td>ENG 121</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>CIT 120</td>
<td>Introduction to Computers</td>
<td>3</td>
</tr>
<tr>
<td>PSY 121</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

### SECOND SEMESTER  
**15-19**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 122</td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>MTH* Elective</td>
<td></td>
<td>3-5</td>
</tr>
<tr>
<td>ECO 221</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>PHI 122</td>
<td>Logic</td>
<td>3</td>
</tr>
<tr>
<td>SUMMER</td>
<td>MTH* Elective</td>
<td>3-5</td>
</tr>
</tbody>
</table>

### THIRD SEMESTER  
**16-18**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 121</td>
<td>Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BUS 221</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>ECO 222</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>MTH* Elective</td>
<td></td>
<td>3-5</td>
</tr>
<tr>
<td>Elective*</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

### FOURTH SEMESTER  
**16-17**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 122</td>
<td>Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>CMM 121</td>
<td>Fundamentals of Speech</td>
<td>3</td>
</tr>
<tr>
<td>HUM 121</td>
<td>Humanities: Ancient Times to the Middle Ages</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities or Fine Arts</td>
<td>3</td>
</tr>
</tbody>
</table>

Notes: Students who qualify for MTH 224, MTH 127 and MTH 222 can complete this degree in 60 credits.

A student should consult an academic advisor to determine the correct progression of math courses. The math course progression for this degree will vary depending on the student’s 1) choice of 4-year institution to which to transfer and 2) math competency prior to enrolling at CLC. This schedule assumes a student will enroll in four semesters of math. Depending on a student’s transfer goals or math competency, a student may need to enroll in additional math courses or may be able to substitute one of the math slots for an elective course in the second or third semester of these schedules.

Transfer Institution: While each local 4-year transfer institution differs in its math requirements, most require a combination of MTH 224 (Business Calculus), MTH 127 (Finite Mathematics) and/or MTH 222 (Business Statistics). In order to qualify for these courses, students must generally also take MTH 122 (College Algebra). Math Competency: If a student does not meet the prerequisite to enroll in MTH 122, enrollment in developmental courses of MTH 102 and/or MTH 108 may be required. These courses do not apply toward the requirements of the associate degree.

A student should consult an academic advisor to determine the most appropriate elective course. Four-year transfer institutions generally differ in their desired elective course. Please select your desired transfer institution and work with an academic advisor to align your elective course with its admittance requirements. Common elective courses may include: BUS 227, BUS 223, BUS 132, BUS 237 or an additional math course.

Note: This plan includes recommendations for students who plan to major in this subject at a four year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses or program specific advising, contact the following faculty or the Business and Social Sciences Division at (847) 543-2047.

Patty Clark | Robert Dodd | Kent Donewald  
Pam Janson | Venkat Krishnamurthy | Lori Oriatti
BUSINESS ADMINISTRATION

**Degree: Associate in Applied Science, Business Administration**
Plan 22BN

The Business Administration Associates in Applied Science degree is designed to prepare students for entry level positions in various fields of business. Students have the option of taking specific courses (“tracks”) to concentrate in Management, Marketing or Entrepreneurship/Small Business. Additionally, four certificates are offered in Marketing, Retail Management, Supervision and Entrepreneurship/Small Business Management. These certificates provide students with concentrated course-work to develop skills needed for career advancement.

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

**FIRST SEMESTER** 15-17
BUS 121  Introduction to Business 3
CIT 120*  Introduction to Computers or CIT 119  Introduction to Office Software 3
CMM 121  Fundamentals of Speech 3
ENG 121  English Composition I 3
MTH 122*  College Algebra or MTH* Elective (higher number than MTH 122) or
AOS 122  Business Mathematics 3-5

**SECOND SEMESTER** 15-16
ACC 121*  Financial Accounting or ACC 110  Accounting in Business 2-4
BUS 227  Principles of Marketing 3
BUS 221  Business Law I 3
ECO 222  Principles of Microeconomics 3
HUM 127  Critical Thinking or PHI 125  Introduction to Ethics 3
General Elective (ONLY if taking ACC 110) 1-3

**THIRD SEMESTER** 15-16
ACC 122*  Managerial Accounting or BUS 111  Fundamentals of Finance 3-4
BUS 223  Principles of Management or BUS, ACC or SCM Electives (select from any BUS, ACC or SCM course not already applied toward this degree) 9

**FOURTH SEMESTER** 15
BUS 237  Managerial Communication 3
ECO 221  Principles of Macroeconomics 3
BUS, ACC or SCM Electives (select from any BUS, ACC or SCM course not already applied toward this degree) 9

Total Hours for AAS Degree 60-64

**GENERAL BUSINESS ELECTIVES (18 CREDITS REQUIRED):**
Any BUS, up to 2 SCM courses, up to 2 additional ACC courses

Recommended course options to include in Elective requirement, based on area of interest:

**Management Track**
BUS 113 / BUS 233 / BUS 253 / BUS 215

**Marketing Track**
BUS 212 / BUS 213 / BUS 214

**Entrepreneurship/Small Business Track**
BUS 131 / BUS 219

Preferred courses for students planning to transfer to a 4 year institution.

1 There are prerequisites for MTH 122. If you do not meet those prerequisites, begin taking those classes this semester – use summer for the additional math class if needed.

Certain courses are only offered certain semesters. Please check the course scheduling guide listed on the web.

Gainful Employment Information: www.clcillinois.edu/gebus

**MARKETING (Certificate) Plan 228G**

**FIRST SEMESTER** 9
BUS 121  Introduction to Business 3
BUS 237  Managerial Communication 3
ENG 121  English Composition I 3

**SECOND SEMESTER** 9
BUS 212  Business to Business Marketing or
BUS 239  Social Media/Networking in Business 3
BUS 214  Advertising 3
BUS 227  Principles of Marketing 3

**THIRD SEMESTER** 9
BUS 213  Principles of Professional Selling 3
BUS 223  Principles of Management 3
BUS 238  Project Management 3

Total Hours for Certificate 27

**RETAIL MANAGEMENT (Certificate) Plan 228F**

This certificate prepares individuals to manage a variety of retail sales operations or lines of merchandise. Students who complete the eight course Retail Management Certificate program will develop a clear sense of the scope of retail management. The certificate is designed to prepare students for career opportunities and upward mobility in the retail industry. It is endorsed by the Western Association of Food Chains and Food Marketing Institute and is relevant in any retail sector as its course content and learning outcomes mirror those advocated by the National Retail Federation.

**FIRST SEMESTER** 12
RMC 111  Human Relations in Business 3
RMC 112  Computer Basics/Software Applications 3
RMC 113  Human Resource Management 3
RMC 115  Elements of Supervision 3

**SECOND SEMESTER** 12
RMC 117  Introduction to Marketing Concepts 3
RMC 119  Introduction to Financial Concepts 3
RMC 234  Principles of Retailing 3
RMC 237  Managerial Communication 3

Total Hours for Certificate 24
## SUPERVISION (Certificate) Plan 22BK

### FIRST SEMESTER
- ENG 121 English Composition I 3
- BUS 113 Human Resource Management 3
- BUS 115 Elements of Supervision 3
- BUS 121 Introduction to Business 3

### SECOND SEMESTER
- BUS 223 Principles of Management 3
- BUS 237 Managerial Communication 3
- BUS 238 Project Management 3
- Electives (see list below) 6

**Total Hours for Certificate:** 27

**ELECTIVES**
- BUS 215 Operations Management 3
- BUS 233 Management Skills 3
- BUS 253 Leadership 3

Gainful Employment Information: [www.clcillinois.edu/gebus](http://www.clcillinois.edu/gebus)

## ENTREPRENEURSHIP/ SMALL BUSINESS MANAGEMENT (Certificate) Plan 22BE

### FIRST SEMESTER
- ACC 110 Accounting in Business or 2-4
- ACC 121 Financial Accounting 3
- BUS 121 Introduction to Business 3
- BUS 131 Entrepreneurship 3
- Electives (see list below) 6

### SECOND SEMESTER
- BUS 215 Operations Management 3
- BUS 219 Small Business Management 3
- Electives (see list below) 3-4
- BUS 227 Principles of Marketing 3

**Total Hours for Certificate:** 26-29

**ELECTIVES**
Select a minimum of nine hours from the list below:
- BUS 113 Human Resource Management 3
- BUS 115 Elements of Supervision 3
- BUS 119 Personal Finance 3
- BUS 213 Principles of Professional Selling 3
- BUS 214 Advertising 3
- BUS 221 Business Law I 3
- BUS 222 Business Law II/Corporate and Securities Law 3
- BUS 223 Principles of Management 3
- BUS 233 Management Skills 3
- BUS 237 Managerial Communication 3
- BUS 238 Project Management 3
- BUS 253 Leadership 3
- Any ACC Course 3-4

Gainful Employment Information: [www.clcillinois.edu/gebus](http://www.clcillinois.edu/gebus)

For more information on recommended courses or program specific advising, contact the following faculty or the Business and Social Sciences Division at (847) 543-2047.

Patty Clark | Robert Dodd | Kent Donewald
Pam Janson | Venkat Krishnamurthy | Lori Oriatti
# COMPUTER INFORMATION TECHNOLOGY

**Business and Social Sciences Division**  
Room T302, (847) 543-2047  
[www.clcillinois.edu/programs/cit](http://www.clcillinois.edu/programs/cit)

**Degree:** Associate in Science  
**Plan 11AB**

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37. All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>15-16</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CIT 120</strong></td>
<td>Introduction to Computers</td>
</tr>
<tr>
<td><strong>CIT 134</strong></td>
<td>Introduction to Programming Concepts</td>
</tr>
<tr>
<td><strong>ENG 121</strong></td>
<td>English Composition I</td>
</tr>
<tr>
<td><strong>Mathematics Elective</strong></td>
<td>3-4</td>
</tr>
<tr>
<td><strong>Humanities Elective</strong></td>
<td>(HUM 127, PHI 122 or PHI 125 are recommended)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND SEMESTER</th>
<th>14</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CIT 141</strong></td>
<td>Programming in C++</td>
</tr>
<tr>
<td><strong>CMM 121</strong></td>
<td>Fundamentals of Speech</td>
</tr>
<tr>
<td><strong>ENG 122</strong></td>
<td>English Composition II or Advanced Composition: Scientific and Technical Communication</td>
</tr>
<tr>
<td><strong>ENG 126</strong></td>
<td>Life Science with Lab Elective</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>THIRD SEMESTER</th>
<th>17-18</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ACC 121</strong></td>
<td>Financial Accounting</td>
</tr>
<tr>
<td><strong>CIT 241</strong></td>
<td>Advanced C++ *</td>
</tr>
<tr>
<td><strong>ECO 221</strong></td>
<td>Principles of Macroeconomics or Principles of Microeconomics</td>
</tr>
<tr>
<td><strong>ECO 222</strong></td>
<td>Mathematics Elective</td>
</tr>
<tr>
<td><strong>Physical Science with Lab Elective</strong></td>
<td>4</td>
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</table>

<table>
<thead>
<tr>
<th>FOURTH SEMESTER</th>
<th>13</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ACC 122</strong></td>
<td>Managerial Accounting</td>
</tr>
<tr>
<td><strong>Fine Arts Elective</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Physical or Life Science</strong></td>
<td>(non-lab)</td>
</tr>
<tr>
<td><strong>Social Science Elective</strong></td>
<td>(not Economics)</td>
</tr>
</tbody>
</table>

* Certain classes are only offered specific semesters. Check the course scheduling guide.

1 A student should consult an academic advisor to determine the correct selection of math courses (7 credit hour minimum). The math course selection for this degree will vary depending on the student’s 1) choice of 4-year institution to which to transfer and 2) math competency prior to enrolling at CLC. Depending on a student’s transfer goals or math competency, a student may need to enroll in additional math courses. Math Competency: If a student does not meet the prerequisite to enroll in MTH 145, lower level math courses may be required. Students should begin taking math courses in the first semester. MTH 102 and MTH 108 do not apply toward the requirements of the associate degree. Students who qualify for MTH 145 can complete this degree in 61 credit hours.

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**Note:** This plan includes recommendations for students who plan to major in this subject at a four year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses or program specific advising, contact the following faculty members or the Business and Social Sciences Division at (847) 543-2047:

Changyi Chen | Sanjay Kumar  
Robert Scherbaum
COMPUTER INFORMATION TECHNOLOGY

Degree: Associate in Applied Science, Computer Information Technology
Plan 22DC

The Computer Information Technology degree is designed to provide knowledge and skills needed for employment in the field of computer technology. The degree provides three specialty options: Computer Forensics, Network Administration and Security, and Web Programming. All three specialty options share a common core of general education and introductory computer courses. Each specialty option has its own unique core of courses and electives.

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

COMPUTER FORENSICS SPECIALTY OPTION

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIT 111</td>
<td>Comprehensive Spreadsheets or CIT 112</td>
</tr>
<tr>
<td>CIT 120</td>
<td>Introduction to Computers 3</td>
</tr>
<tr>
<td>CIT 134</td>
<td>Introduction to Programming 3</td>
</tr>
<tr>
<td>CIT 130</td>
<td>Operating Systems for A+ Certification 3</td>
</tr>
<tr>
<td>CIT 139</td>
<td>Cisco: Introduction to Networks 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND SEMESTER</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 121</td>
<td>English Composition I 3</td>
</tr>
<tr>
<td>CIT 152</td>
<td>Network Security Fundamentals 3</td>
</tr>
<tr>
<td>CIT 155</td>
<td>Introduction to Computer Forensics 3</td>
</tr>
<tr>
<td>CIT 256</td>
<td>Windows Forensics Analysis 3</td>
</tr>
<tr>
<td></td>
<td>Computer Forensics Elective* 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>THIRD SEMESTER</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIT 132</td>
<td>Linux Operating System 3</td>
</tr>
<tr>
<td>CIT 170</td>
<td>Web Page Development Humanities or Fine Arts Elective (HUM 127, PHI 122 or PHI 125 recommended) 3</td>
</tr>
<tr>
<td>ELT 151</td>
<td>PC Hardware Fundamentals 3</td>
</tr>
<tr>
<td></td>
<td>Computer Forensics Elective* 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FOURTH SEMESTER</th>
<th>15-17</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOS 122</td>
<td>Business Mathematics or MTH 122</td>
</tr>
<tr>
<td>MTH 122</td>
<td>Social Sciences Elective (ECO 221 or ECO 222 recommended) 3</td>
</tr>
<tr>
<td>CMM 111</td>
<td>Communication Skills or CMM 121</td>
</tr>
<tr>
<td>CMM 128</td>
<td>CIT 258</td>
</tr>
<tr>
<td>CMM 129</td>
<td>CIT 259</td>
</tr>
</tbody>
</table>

COMPUTER FORENSICS ELECTIVE (CHOOSE TWO)

| CRJ 121        | Introduction to Criminal Justice 3 |
| CRJ 123        | Introduction to Criminology 3 |
| CRJ 219        | Principles of Criminal Investigation 3 |
| CRJ 222        | Criminal Procedural Law 3 |
| CRJ 223        | Ethics in Criminal Justice 3 |

Total Hours for A.A.S. Degree (Specialty Option: Computer Forensics) 60-62
# Network Administration and Security Specialty Option

**First Semester**
- **CIT 111**: Comprehensive Spreadsheets or Comprehensive Database 3
- **CIT 120**: Introduction to Computers 3
- **CIT 134**: Introduction to Programming 3
- **CIT 131**: Windows Operating System 3
- **CIT 139**: Cisco: Introduction to Networks 3

**Second Semester**
- **ENG 121**: English Composition I 3
- **CIT 113**: Networking Automation 3
- **CIT 151**: Windows Server Administration 3
- **CIT 152**: Network Security Fundamentals 3
- **CIT 159**: Cisco: Routing and Switching 3

**Third Semester**
- **CIT 132**: Linux Operating System 3
- **CIT 170**: Web Page Development Humanities or Fine Arts Elective (HUM 127, PHI 122 or PHI 125 recommended) 3
- **CIT 252**: Hardening the Infrastructure Elective* Recommended: CIT 255 Server Virtualization Technologies 3

**Fourth Semester**
- **AOS 122**: Business Mathematics or College Algebra or MTH Elective higher than MTH 122 3-5
- **CIT 111**: Comprehensive Spreadsheets or Comprehensive Database 3
- **CIT 120**: Introduction to Computers 3
- **CIT 134**: Introduction to Programming 3
- **CIT 157**: Configuring and Supporting Windows Devices (Recommended) 3
- **CIT 158**: Computer Science 1 4
- **CIT 174**: Adobe Dreamweaver 3

**Total Hours for A.A.S. Degree (Specialty Option: Network Administration and Security) 60-62**

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# Web Programming Specialty Option

**First Semester**
- **CIT 111**: Comprehensive Spreadsheets or Comprehensive Database 3
- **CIT 112**: Introduction to Computers 3
- **CIT 134**: Introduction to Programming 3
- **CIT 139**: Cisco: Introduction to Networks 3

**Second Semester**
- **ENG 121**: English Composition I 3
- **CIT 113**: Introduction to SQL 3
- **CIT 138**: Programming 3
- **CIT 141**: Programming in C++ or Web Programming Elective* 3
- **CIT 174**: Adobe Dreamweaver 3

**Third Semester**
- **CIT 132**: Linux Operating System 3
- **CIT 170**: Web Page Development Humanities or Fine Arts Elective (HUM 127, PHI 122 or PHI 125 recommended) 3
- **CIT 178**: Web Page Scripting 3
- **CIT 173**: PHP Programming 3

**Fourth Semester**
- **AOS 122**: Business Mathematics or College Algebra or MTH Elective higher than MTH 122 3-5
- **CIT 111**: Communication Skills or Fundamentals of Speech or Interviewing Practices 3
- **CIT 120**: Interviewing Practices 3
- **CIT 134**: Web Programming Elective* 3
- **CIT 157**: Configuring and Supporting Windows Devices (Recommended) 3

**Total Hours for A.A.S. Degree (Specialty Option: Web Programming) 60-62**
### CISCO NETWORKING (Certificate) Plan 22CE

This program provides students with a strong background in computer networking, including network fundamentals, routing, switching, network design, troubleshooting, and network security. The program prepares students for the Cisco Certified Entry Networking Technician (CCENT) and Cisco Certified Network Associate (CCNA) exams. The courses use instructional materials provided by Cisco and aligned with the exams. Students receive extensive hands-on laboratory practice in Cisco systems.

**FIRST SEMESTER**
- **CIT 139** Cisco: Introduction to Networks, 3 credits

**SECOND SEMESTER**
- **CIT 159** Cisco: Routing and Switching, 3 credits

**THIRD SEMESTER**
- **CIT 218** Cisco: Scaling Networks, 3 credits
- **CIT 219** Cisco: Connecting WAN Networks, 3 credits

*Total Hours for Certificate: 12*

### DESKTOP SUPPORT TECHNICIAN (Certificate) Plan 22CI

This certificate prepares students for desktop support and customer support jobs. It prepares the student for the A+ Certification (PC-Technician) test and the Microsoft Desktop Support Technician Certification test. These two certifications are useful in obtaining an entry-level job in the Information Technology field.

**FIRST SEMESTER**
- **CIT 130** Operating Systems for A+ Certification, 3 credits
- **CIT 157** Configuring and Supporting Windows Devices, 3 credits
- **ELT 151** PC Hardware Fundamentals, 3 credits

*Total Hours for Certificate: 9*

### NETWORK ADMINISTRATION AND SECURITY (Certificate) Plan 22CK

The Network Administration and Security certificate prepares students for careers in designing and administering computer networks. In addition, coursework for this curriculum addresses how to keep networks secure from outside intrusion and procedures on securing evidence if network security has been breached.

**FIRST SEMESTER**
- **CIT 131** Windows Operating System, 3 credits
- **CIT 132** Linux Operating System, 3 credits
- **CIT 139** Cisco: Introduction to Networks, 3 credits

**SECOND SEMESTER**
- **CIT 133** Networking Automation, 3 credits
- **CIT 151** Windows Server Administration, 3 credits
- **CIT 152** Network Security Fundamentals, 3 credits
- **CIT 159** Cisco: Routing and Switching, 3 credits

**THIRD SEMESTER**
- **CIT 252** Hardening the Infrastructure, 3 credits

**FOURTH SEMESTER**
- **CIT 253** Network Defense and Countermeasures, 3 credits
- **CIT 254** Advanced Windows Server, 3 credits

*Total Hours for Certificate: 30*
### WEB PROGRAMMING (Certificate) Plan 22CN

The Web Programming certificate provides students with the necessary skills to begin a career in web development. The student will learn to create web pages and interfaces using client- and server-side programming for the development of web applications. The student will also develop web pages incorporating database applications and components, which will include database administration, security and maintenance.

**FIRST SEMESTER**
- CIT 120 Introduction to Computers: 3 hours
- CIT 112 Comprehensive Database: 3 hours
- CIT 134 Introduction to Programming: 3 hours
- CIT 170 Web Page Development: 3 hours
- CIT 174 Adobe Dreamweaver: 3 hours

**SECOND SEMESTER**
- CIT 171 Web Page Scripting: 3 hours
- CIT 173 PHP Programming: 3 hours

Total Hours for Certificate: 27

### C++ PROGRAMMING (Certificate) Plan 22CO

The C++ Programming certificate is centered in object oriented technologies. The certificate is intended to enhance programming skills by providing knowledge and experience in the C++ language in a minimal amount of time. It includes interaction with databases and the utilization of a systems approach to problem solving.

**FIRST SEMESTER**
- CIT 112 Comprehensive Database: 3 hours

**SECOND SEMESTER**
- CIT 113 Introduction to SQL: 3 hours
- CIT 141 Programming in C++: 4 hours

**THIRD SEMESTER**
- CIT 241 Advanced C++: 3 hours
- CIT 239 Systems Analysis: 3 hours

Total Hours for Certificate: 16

### COMPUTER FORENSICS ANALYST (Certificate) Plan 22CT

This program is designed for individuals in both law enforcement and the private sector who wish to learn the skills needed to become a Computer Forensics Analyst. The primary responsibilities of a Computer Forensics Analyst are to collect, secure, and analyze data with evidential value found on digital media and data networks. Students completing this certificate will have a solid foundation in operating systems, networking, digital forensic methodologies and IT Security. Students will learn crime scene notetaking, report writing, and presentation of findings.

**FIRST SEMESTER**
- CIT 130 Operating Systems for A+ Certification: 3 hours
- CIT 132 Linux Operating System: 3 hours
- CIT 139 Cisco: Introduction to Networks: 3 hours
- ELT 151 PC Hardware Fundamentals: 3 hours
- CIT 155 Introduction to Computer Forensics: 3 hours

**SECOND SEMESTER**
- CIT 256 Windows Forensics Analysis: 3 hours
- CIT 152 Network Security Fundamentals: 3 hours

**THIRD SEMESTER**
- CIT 258 Network Forensics: 4 hours
- CIT 259 Topics in Computer Forensics: 1-3 hours

Total Hours for Certificate: 26-28

Gainful Employment Information: [www.clcillinois.edu/gecit](http://www.clcillinois.edu/gecit)

For more information on recommended courses or program specific advising, contact the following faculty members or the Business and Social Sciences Division at (847) 543-2047:

Changyi Chen | Sanjay Kumar
Robert Scherbaum

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**BUSINESS AND INFORMATION TECHNOLOGY PROGRAMS**
ECONOMICS
Business and Social Sciences Division
Room T302, (847) 543-2047
www.clcillinois.edu/programs/eco

Degree: Associate in Arts
Plan 13AB

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

FIRST SEMESTER 16-17
ENG 121  English Composition I  3
MTH 145  Calculus and Analytic Geometry I or
MTH 224  Calculus for Business and Social Science  4-5
HST 122  History of Western Civilization 1500 to Present  3
PHI 121  Introduction to Philosophy  3
Concentration/Elective  3

SECOND SEMESTER 16
ENG 122  English Composition II  3
GEG 120  Principles of Physical Geography  4
PSC 121  American National Politics  3
Concentration/Elective  3

THIRD SEMESTER 15
CMM 121  Fundamentals of Speech  3
Humanities or Fine Arts Elective  3
Concentration/Elective  3
Concentration/Elective  3

FOURTH SEMESTER 15-16
Fine Arts Elective  3
SOC 121  Introduction to Sociology  3
Life Science Elective  3-4
Concentration/Elective  3
Concentration/Elective  3

CONCENTRATION/ELECTIVES
ECO 221  Principles of Macroeconomics  3
ECO 222  Principles of Microeconomics  3
ECO 223  Money and Banking  3
ECO 224  Public Finance  3
MTH 222  Business Statistics  4
PSC 222  International Relations  3
Additional Electives as Needed  7

Math requirements vary at four-year institutions

Note: This plan includes recommendations for students who plan to major in this subject at a four year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses or program specific advising, contact the following faculty or the Business and Social Sciences Division at (847) 543-2047.

Stefan Mullinax | Tonitta White

Business and Information Technology Programs
**SUPPLY CHAIN MANAGEMENT**

Business and Social Sciences Division, Room T302, (847) 543-2047  
www.clcillinois.edu/programs/scm

**Degree:** Associate in Applied Science, Supply Chain Management  
Plan 22BO

This degree will provide students with the knowledge and skills for employment within the supply chain area. Supply Chain Management focuses on the flow of materials end-to-end beginning at customer service and procurement and ending with delivery to the customer. The coursework is designed for careers focused on procurement, inventory management, warehousing, distribution, logistics and transportation. This degree will provide a better understanding of how each of the areas affects the other and how to best achieve efficiency and profitability for the organization. Courses for this degree are offered online, hybrid or in the classroom. Graduates of the degree program will hone their skills for front-line supervisory/team lead positions in warehouses, distribution centers, and operation centers. The AAS degree can be accomplished in a two year time frame. Grainger has generously supported the development of this program.

To complete an A.A.S., students are **strongly encouraged** to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>16-21</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 121</td>
<td>Introduction to Business</td>
</tr>
<tr>
<td>CIT 111</td>
<td>Comprehensive Spreadsheets or Introduction to Office Software</td>
</tr>
<tr>
<td>CIT 119</td>
<td>Introduction to Computers</td>
</tr>
<tr>
<td>CIT 120</td>
<td>Introduction to Computers</td>
</tr>
<tr>
<td>SCM 110</td>
<td>Introduction to Supply Chain Management</td>
</tr>
<tr>
<td>MTH 122</td>
<td>College Algebra or Business Mathematics</td>
</tr>
<tr>
<td>AOS 122</td>
<td>English Composition I or General Elective</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND SEMESTER</th>
<th>14-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 121</td>
<td>Financial Accounting or Accounting in Business</td>
</tr>
<tr>
<td>ACC 110</td>
<td>Business Law I</td>
</tr>
<tr>
<td>BUS 221</td>
<td>Administrative Communication or Business Communication</td>
</tr>
<tr>
<td>SCM 115</td>
<td>Sourcing and Procurement</td>
</tr>
<tr>
<td>SCM 120</td>
<td>Inventory Management and Planning</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>THIRD SEMESTER</th>
<th>15-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCM 125</td>
<td>Warehousing and Distribution</td>
</tr>
<tr>
<td>SCM 130</td>
<td>Logistics and Transportation</td>
</tr>
<tr>
<td>ACC 122</td>
<td>Managerial Accounting or Accounting in Business</td>
</tr>
<tr>
<td>BUS 111</td>
<td>Fundamentals of Finance</td>
</tr>
<tr>
<td>ECO 222</td>
<td>Principles of Microeconomics</td>
</tr>
<tr>
<td>SCM 215</td>
<td>Operations Management or SCM 115</td>
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<tr>
<td>BUS 215</td>
<td>Operations Management</td>
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<table>
<thead>
<tr>
<th>FOURTH SEMESTER</th>
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</tr>
</thead>
<tbody>
<tr>
<td>HUM 127</td>
<td>Critical Thinking or Introduction to Ethics</td>
</tr>
<tr>
<td>PHI 125</td>
<td>Fundamentals of Speech</td>
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<tr>
<td>CMM 121</td>
<td>Supply Chain Management Internship</td>
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<tr>
<td>SCM 150*</td>
<td>Elements of Supervision or SCM 215</td>
</tr>
<tr>
<td>BUS 223**</td>
<td>Principles of Management</td>
</tr>
<tr>
<td>ECO 221</td>
<td>Principles of Macroeconomics</td>
</tr>
</tbody>
</table>

**Total Hours for AAS Degree** 60-68

Currently, SCM 115 & SCM 120 offered spring and SCM 125 & SCM 130 offered fall

* SCM 150: Prerequisite is 18 hours of SCM coursework  
** BUS 223 requires BUS 121 as a prerequisite
INTRODUCTION TO SUPPLY CHAIN MANAGEMENT (Certificate) Plan 22BP

This certificate will provide students with the knowledge and skills for employment within the supply chain area. Supply Chain Management focuses on the flow of materials end-to-end beginning at customer service and procurement and ending with delivery to the customer. The coursework is designed for careers focused on procurement, inventory management, warehousing, distribution, logistics and transportation. This certificate will provide a better understanding of how each of the areas affects the other and how to best achieve efficiency and profitability for the organization. Courses for this certificate are offered online, hybrid or in the classroom. The Introduction to Supply Chain Management certificate can be completed in two semesters and combined with general education requirements and additional program specific courses to earn an A.A.S. degree in Supply Chain Management. Grainger has generously supported the development of this program.

FIRST SEMESTER
- BUS 121  Introduction to Business  3
- CIT 120  Introduction to Computers or Comprehensive Spreadsheets or
- CIT 119  Introduction to Office Software or
- CIT 120  Introduction to Computers  3
- SCM 110  Introduction to Supply Chain Management  3
- BUS 115  Elements of Supervision or Principles of Management  3
- BUS 223**  3

SECOND SEMESTER
- SCM 215  Operations Management or
- BUS 215  Operations Management  3

Total Hours for Certificate  15

ADVANCED SUPPLY CHAIN MANAGEMENT (Certificate) Plan 22BQ

This certificate will provide students with the knowledge and skills for employment within the supply chain area. Supply Chain Management focuses on the flow of materials end-to-end beginning at customer service and procurement and ending with delivery to the customer. The coursework is designed for careers focused on procurement, inventory management, warehousing, distribution, logistics and transportation. This certificate will provide a better understanding of how each of the areas affects the other and how to best achieve efficiency and profitability for the organization. Courses for this certificate are offered online, hybrid or in the classroom. The Advanced Supply Chain Management certificate can be combined with general education requirements and additional program specific courses to earn an A.A.S. degree in Supply Chain Management. Grainger has generously supported the development of this program.

FIRST SEMESTER
- BUS 121  Introduction to Business  3
- CIT 111  Comprehensive Spreadsheets or
- CIT 119  Introduction to Office Software or
- CIT 120  Introduction to Computers  3
- SCM 110  Introduction to Supply Chain Management  3
- BUS 115  Elements of Supervision or
- BUS 223**  Principles of Management  3

SECOND SEMESTER
- SCM 215  Operations Management or
- BUS 215  Operations Management  3
- SCM 115  Sourcing and Procurement  3
- SCM 120  Inventory Management and Planning  3

THIRD SEMESTER
- SCM 125  Warehousing and Distribution  3
- SCM 130  Logistics and Transportation  3

FOURTH SEMESTER
- SCM 150*  Supply Chain Management Internship  3

Total Hours for Certificate  30

Currently, SCM 115 & SCM 120 offered spring and SCM 125 & SCM 130 offered fall

* SCM 150: Prerequisite is 18 hours of SCM coursework
** BUS 223 requires BUS 121 as a prerequisite

For more information on recommended courses or program specific advising, contact Pam Janson at (847) 543-2534 or the Business and Social Sciences Division at (847) 543-2047.
COMMUNICATION AND HUMANITIES

COMMUNICATION
ENGLISH
HUMANITIES
INTERNATIONAL STUDIES
LATIN-AMERICAN STUDIES
PHILOSOPHY
TECHNICAL COMMUNICATION
WORLD LANGUAGES
WHAT IS YOUR PLAN AFTER CLC?

I WANT TO TRANSFER TO A FOUR-YEAR COLLEGE OR UNIVERSITY.

The Associate in Arts (A.A.), Associate in Science (A.S.) or other specially focused transfer degrees will probably be your best bet.

- **Associate in Arts (A.A.) degree** - typically ranges from 60-64 credit hours and should parallel the first two years of a liberal arts-related baccalaureate degree program.
- **Associate in Science (A.S.) degree** - typically ranges from 60-64 credit hours and should parallel the first two years of a science-related baccalaureate degree program.
- There are other specialized Associate’s transfer degrees in Engineering and Fine Arts (Art and Music).

Some colleges will accept credits earned through an Associate in Applied Science (A.A.S) but it would be best to confirm with the school you plan to attend next.

Whatever your plan, it is best to think about what college and major you would like to transfer to and design your coursework around the requirements of that institution. Student development counselors are experts on transfer planning and are happy to help!

I WANT TO START WORKING IN MY CHOSEN FIELD.

The Associate in Applied Science (A.A.S) is a degree designed to help students get into their chosen careers with the knowledge and skills needed by specific industries. These programs were created to provide tangible abilities in a field so that you can either find a job or upgrade your current job when you leave CLC.

Many programs also offer short-term certificates that can help get you into the workforce quickly. These certificates may cover a specific proficiency or technical ability to give you a jumpstart in the field. Many can be stacked together to work toward a degree.

- **Associate in Applied Science (A.A.S.) degree** – typically ranges from 60-72 credit hours and focuses on real-world career skills.
- **Career Certificates** – typically range from 9-30 credit hours and focus on a specialized skill.

I AM NOT REALLY SURE WHAT I WANT TO DO NEXT.

*That is okay!* At CLC, there are many people such as student development counselors, career counselors, academic advisors, and faculty who can help you discover your path. Page 21 has contact information for the people that can help. If you would like to discuss career interests or talk to someone about taking classes that could work for many degree or certificate options, stop by the Counseling, Advising, and Transfer Center.

This catalog is organized by fields of interest. Reading through this information may help spur an idea for you to explore further. For example, you may be interested in the Healthcare field; the Wellness and Health Sciences field of interest offers many options for you to consider.
ASSOCIATE IN ARTS (13AB)

Students may obtain an Associate in Arts degree from the College of Lake County by successfully meeting college requirements and course requirements outlined below.

The College of Lake County is a participant in the Illinois Articulation Initiative (IAI), a major statewide cooperative agreement that eases the transfer process of the completed Illinois General Education Core Curriculum among participating institutions.

COMMUNICATION - 9 CREDIT HOURS
A grade of C or better is required for both ENG courses.

- CMM 121 Fundamentals of Speech (3)
- ENG 121 English Composition I (3)
- ENG 122 English Composition II (3)
- ENG 126 Advanced Composition: Scientific and Technical Communications (3)

SOCIAL AND BEHAVIORAL SCIENCE - 9 CREDIT HOURS
Select courses from at least two different disciplines i.e. different prefixes.

- ANT 121+ Introduction to Anthropology (3)
- ANT 221+ Cultural Anthropology (3)
- ANT 222 Introduction to Physical Anthropology (3)
- ANT 224 Introduction to Archaeology (3)
- ANT 228+ Cross-Cultural Relationships (3)
- ECO 221 Principles of Macroeconomics (3)
- ECO 222 Principles of Microeconomics (3)
- GEG 122 Cultural Geography (3)
- GEG 123 World Regional Geography (3)
- GXS 121+ Introduction to Gender Studies (3)
- GXS 229+ Sex, Gender, and Power (3)
- HST 121+ History of Western Civilization to 1500 (3)
- HST 122 History of Western Civilization 1500 to Present (3)
- HST 126 History of Contemporary Non-Western Civilization (3)

PHYSICAL AND LIFE SCIENCES - 7 CREDIT HOURS
One course must be selected from Physical Science and one course from Life Science. At least one course must be a laboratory science course (L).

PHYSICAL SCIENCE
- CHM 120L (LAB) Chemical Concepts (4)
- CHM 121L (LAB) General Chemistry I (5)
- CHM 140 Introduction to Chemistry (3)
- CHM 142L (LAB) Chemistry for a Changing World (3)
- ESC 120L (LAB) Earth Science (4)
- ESC 121L (LAB) Physical Geology (4)
- ESC 123 Introduction to Meteorology (3)
- ESC 124 Oceanography (3)
- ESC 125 Geology of National Parks (3)

LIFE SCIENCE
- BIO 120L (LAB) Environmental Biology (4)
- BIO 123L (LAB) Principles of Biology (4)
- BIO 127 Introduction to Evolution (3)
- BIO 140 Environmental Biology without Lab (3)
- BIO 141L (LAB) Concepts of Biology (4)
- BIO 149 Genetics and Society (3)
- BIO 161L (LAB) General Biology I (4)

MATHEMATICS – 3 CREDIT HOURS

- MTH 127 Finite Mathematics I (3)
- MTH 140 Contemporary Mathematics (3)
- MTH 141 Quantitative Literacy (3)
- MTH 142 General Education Statistics (3)
- MTH 145 Calculus and Analytic Geometry I (5)
- MTH 146 Calculus and Analytic Geometry II (4)
- MTH 211 Mathematics for Elementary Teaching II (3)
- MTH 222 Business Statistics (4)
- MTH 224 Calculus for Business and Social Science (4)
- MTH 244 Discrete Mathematics (3)
- MTH 246 Calculus and Analytic Geometry III (5)
HUMANITIES AND FINE ARTS – 9 CREDIT HOURS

At least one course must be selected from the Humanities section and one course from the Fine Arts section.

HUMANITIES

- ARA 222+ Intermediate Modern Standard Arabic II (4) H1 900
- CHI 222+ Intermediate Chinese II (4) H1 900
- ENG 129+ Women in Literature (3) H3 911D
- ENG 223 Early American Literature (3) H3 914
- ENG 225 Survey of British Literature I (3) H3 912
- ENG 226 Survey of British Literature II (3) H3 913
- ENG 227 Introduction to Shakespeare (3) H3 905
- ENG 228+ World Literature (3) H3 906
- ENG 229 20th Century American Literature (3) H3 915
- ENG 241 Introduction to Poetry (3) H3 903
- ENG 243 Introduction to Fiction (3) H3 901
- ENG 244+ Mythology and Fairy Tales (3) H9 901
- ENG 246+ Latin American Writers (3) H3 908N
- ENG 247+ International Women Writers (3) H3 911D
- ENG 249 Children’s Literature (3) H3 918
- FRN 222+ Intermediate French II (4) H1 900
- FRN 223 French Civilization I (3) H1 900
- FRN 224 French Civilization II (3) H1 900
- GER 222+ Intermediate German II (4) H1 900
- GER 224 German Civilization II (3) H1 900
- HUM 121+ Humanities: Ancient Times to the Middle Ages (3) H9 902
- HUM 122+ Humanities: Renaissance to the Present (3) H9 903
- HUM 127 Introduction to Middle-Eastern Civilizations (3) H2 903 N
- HUM 128+ Introduction to East Asian Civilization (3) H9 904 N
- HUM 129+ World Humanities 20/21st Century (3) H9 904 N
- HUM 141+ American Decades (3) H9 906D
- HUM 221+ Women and the Arts (3) H9 907D
- ITL 222+ Intermediate Italian II (4) H1 900
- ITL 223 Italian Civilization I (3) H1 900
- JPN 222+ Intermediate Japanese II (4) H1 900
- LAT 121 Introduction to Latin-American Studies (3) H9 906D
- PHI 121 Introduction to Philosophy (3) H3 904
- PHI 122 Logic (3) H4 906
- PHI 123 Philosophy of Religion (3) H4 905
- PHI 125+ Introduction to Ethics (3) H1 900
- PHI 126+ World Religions (3) H5 904N
- PHI 128 Introduction to Social and Political Philosophy (3) H4 907
- PHI 221+ Asian Philosophy (3) H4 903N
- PHI 222+ Intermediate Russian II (4) H1 900
- RUS 222+ Intermediate Spanish II (4) H1 900
- SPA 222+ Spanish Civilization I (3) H1 900
- SPA 223+ Spanish Civilization II (3) H1 900
- SPA 224+ Spanish Civilization III (3) H1 900
- SPA 225+ Spanish Civilization IV (3) H1 900

INTERNATIONAL/MULTICULTURAL REQUIREMENTS

Choose one course with a + following the course number OR one of the following:

- ASI 121, CMM 127, ECO 225, EDU 224
- ENG 263, 264, GKS 221, 299, HST 128, LAT 121, PDS 123, PHI 128, 129, PSY 229, SSI 121.

This course can fulfill both the I/M requirement and a Social Science, Humanities, Fine Arts, or Elective requirement. A B.A. degree at many four year colleges may require college level foreign language.

AREA OF CONCENTRATION/ELECTIVE REQUIREMENTS - 23 CREDIT HOURS

- Choose elective courses with a 1.1 (transfer course) PCS code that relate to your intended major. Students should choose electives only after consulting with an Advising Professional. The PCS code for each course is listed in the course descriptions starting on page 224 of this catalog. Up to six hours of courses with a 1.2 (career course) PCS code may be used as general electives in the degree. All 199 courses are exempt from this rule. Students should select these courses only after they have verified their transferability with their Advising Professional or the transfer institution. EDU 999 does not count toward this six-hour limit.
- Students may not receive credit towards degree for both CHM 140 and CHM 142, or both BIO 120 and BIO 140, or both ESC 123 and ESC 127.
- Students with credit for both MTH 122 and MTH 123 will not be given credit for MTH 144. Students may not receive credit towards degree for both (MTH 122 and MTH 144) or (MTH 123 and MTH 144).
- Please review lists of recommended courses for individual programs of study listed on pages 58-262 in this catalog.

FINE ARTS

- ART 121 History of Art I (3) F1 900
- ART 122+ History of Art I (3) F2 901
- ART 241+ History of Photography (3) F2 902
- ART 260+ History of Art II (3) F2 904
- ART 261+ Non-Western Art History (3) F2 903N
- DNC 240+ The Art of Dance (3) F1 906
- HUM 121+ Humanities: Ancient Times to the Middle Ages (3) H9 902
- HUM 122+ Humanities: Renaissance to the Present (3) H9 903
- HUM 123+ History of Film (3) F2 908
- HUM 124+ History of Performing Arts (3) F3 900
- HUM 125+ History of East Asian Civilization (3) H9 904 N
- HUM 126+ World Humanities 20/21st Century (3) H9 904N
- HUM 140+ American Decades (3) H9 906D
- HUM 141+ Film and Society (3) F2 908
- HUM 142+ Women and the Arts (3) H9 907D
- HUM 222+ Music Appreciation (3) F1 900
- HUM 223+ Music Literature (3) F1 902
- THE 121+ Introduction to Theatre I (3) F1 907
- THE 123+ Diversity in American Theatre (3) F1 909D

OTHER GRADUATION REQUIREMENTS

- Cumulative CLC GPA of 2.00 or higher
- Completion of at least 15 credit hours at CLC
- Petition to Graduate: The Petition to Graduate form must be submitted to the Welcome and One-Stop Center to have your degree processed. It can be found online at www.clcillinois.edu/petition. Contact Admissions for more information at (847) 543-2061. Deadlines to Petition: Spring – February 15; Summer – July 1; Fall – October 1
**COMMUNICATION**

Communication Arts, Humanities and Fine Arts Division, Room B213, (847) 543-2040
www.clcillinois.edu/programs/cmm

*Degree: Associate in Arts*

Plan 13AB

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

**FIRST SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 121</td>
<td>3</td>
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<tr>
<td>Math Elective</td>
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<tr>
<td>CMM 121</td>
<td>3</td>
</tr>
<tr>
<td>Fundamentals of Speech</td>
<td>3</td>
</tr>
<tr>
<td>Social Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Elective</td>
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**SECOND SEMESTER**

<table>
<thead>
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<th>Course</th>
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<tbody>
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<td>Physical or Life Science with Lab Elective</td>
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<tr>
<td>CMM 122</td>
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<td>Business and Professional Speaking</td>
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<td>ENG 123</td>
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<td>Mass Communications</td>
<td>3</td>
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<tr>
<td>Fine Arts Elective (I/M)</td>
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**THIRD SEMESTER**

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<th>Course</th>
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<tr>
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<tr>
<td>Physical or Life Science</td>
<td>3</td>
</tr>
<tr>
<td>Linguistics and Society</td>
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</tr>
<tr>
<td>Communication and Gender</td>
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<tr>
<td>Intercultural Communication</td>
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**FOURTH SEMESTER**

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<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Social Science Elective</td>
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<tr>
<td>Dynamics/Small Group Discussion</td>
<td>3</td>
</tr>
<tr>
<td>PHI 121</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>ENG 244</td>
<td>3</td>
</tr>
<tr>
<td>Mythology and Fairy Tales</td>
<td>3</td>
</tr>
<tr>
<td>CMM 124</td>
<td>3</td>
</tr>
<tr>
<td>Oral Interpretation or Interviewing Strategies</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: This plan includes recommendations for students who plan to major in this subject at a four year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses or program specific advising, contact the following faculty or the Communication Arts, Humanities and Fine Arts Division at (847) 543-2040.

- Nedra Adams-Soller
- Joel Chmara
- Fred Gifford
- Lynne Harper
- Kari Proft
- Rick Soller

**Note:** This plan includes recommendations for students who plan to major in this subject at a four-year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses or program specific advising, contact the following faculty or the Communication Arts, Humanities and Fine Arts Division at (847) 543-2040.
ENGLISH
Communication Arts, Humanities and Fine Arts Division, Room B213, (847) 543-2040
www.clcillinois.edu/programs/eng

Degree: Associate in Arts
Plan 13AB

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

FIRST SEMESTER

ENG 121 English Composition I
Humanities Fine Arts Elective (non-English)
Social Science Elective
Math Elective
Foreign Language

SECOND SEMESTER

ENG 122 English Composition II
Any ENG Literature course
CMM 121 Fundamentals of Speech
Social and Behavioral Sciences Elective
Foreign Language

THIRD SEMESTER

ENG Any ENG Literature course
Humanities Fine Arts Elective (non-English)
Physical and Life Science Without Lab Elective
Social Science Elective
General Elective

FOURTH SEMESTER

ENG Any ENG Literature course
ENG Any ENG Writing course
Physical and Life Science With Lab Elective
Humanities Fine Arts Elective (non-English)
General Elective

ENGLISH LITERATURE COURSES
ENG 129 Women in Literature (I/M)*
ENG 199 Topics in Literature
ENG 223 Early American Literature
ENG 225 Survey of British Literature I
ENG 226 Survey of British Literature II
ENG 227 Introduction to Shakespeare
ENG 228 World Literature (I/M)*
ENG 229 American Literature: 20th Century to Present
ENG 241 Introduction to Poetry
ENG 243 Introduction to Fiction
ENG 244 Mythology and Fairy Tales (I/M)*
ENG 246 Latin American Writers (I/M)*
ENG 249 Children’s Literature

ENGLISH WRITING COURSES
ENG 124 Newswriting
ENG 220 Introduction to Scripts for the Screen
ENG 222 Creative Writing
ENG 224 Creative Writing II (fiction, creative non-fiction, poetry)

Note: This plan includes recommendations for students who plan to major in this subject at a four year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S.). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses or program specific advising, contact the following faculty or the Communication Arts, Humanities and Fine Arts Division at (847) 543-2040.

Nathan Breen | Katie Dublis
**HUMANITIES**

Communication Arts, Humanities and Fine Arts Division, Room B213, (847) 543-2040
www.clcillinois.edu/programs/hum

**Degree:** Associate in Arts
**Plan 13AB**

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37. All course prerequisites must be met.

Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

**FIRST SEMESTER**

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<thead>
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<th>Course</th>
<th>Units</th>
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<td>ENG 121</td>
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<td>Humanities Fine Arts Elective</td>
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<td>Area of Concentration/ Elective Requirements</td>
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<td>Math Elective</td>
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<td>HST 121</td>
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<td>History of Western Civilizations to 1500</td>
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<td>ENG 122</td>
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<tr>
<td>English Composition II</td>
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<tr>
<td>Fine Arts Elective</td>
<td>3</td>
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<td>Area of Concentration/ Elective Requirements</td>
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<tr>
<td>Physical Science without Lab Electives</td>
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**SECOND SEMESTER**

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<td>Physical Science with Lab Electives</td>
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**THIRD SEMESTER**

<table>
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<th>Course</th>
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<tr>
<td>ANT 221</td>
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<tr>
<td>Cultural Anthropology</td>
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<td>Social Science Elective</td>
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**FOURTH SEMESTER**

<table>
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<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>Area of Concentration/ Elective Requirements</td>
<td>8</td>
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</tbody>
</table>

**Note:** This plan includes recommendations for students who plan to major in this subject at a four year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses or program specific advising, contact the following faculty or the Communication Arts, Humanities and Fine Arts Division at (847) 543-2040.

Christopher Cooling | Patrick Gonder
Leslie Hopkins | John Kupetz | Jenny Lee
Robert Lossmann | Nick Schevera
Jackie Trimier
INTERNATIONAL STUDIES
Business and Social Sciences Division,
Room T302, (847) 543-2047
www.clcillinois.edu/programs/int

Degree: Associate in Arts
Plan 13AB

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

FIRST SEMESTER 15-16
ENG 121  English Composition I 3
MTH 140  Contemporary Mathematics or MTH 141  Quantitative Literacy or MTH 142  General Education Statistics or MTH 222  Business Statistics 3-4
SSI 121  Introduction to Global Studies or SOC 121  Introduction to Sociology 3
HUM 121  Humanities: Ancient Times to the Middle Ages or HUM 122  Humanities: Renaissance to the Present 3
HUM 123  Concentration/Elective 3

SECOND SEMESTER 16
ENG 122  English Composition II 3
BIO 120  Environmental Biology 4
ECO 221  Principles of Macroeconomics Concentration/Elective 3

THIRD SEMESTER 15-16
CMM 121  Comparative Political Systems 3
PSC 221  Introduction to International Films or Foreign Language Level 222 or higher Concentration/Elective 3-4
HUM 140  Concentration/Elective 3

FOURTH SEMESTER 15
GEG 121  Physical Geography or Physical Science Non-Lab Elective 3
HUM 141  World Humanities of 20/21 Century Concentration/Elective 3

CONCENTRATION/ELECTIVES

CHOOSE FROM RECOMMENDED COURSES:

ANT 121  Introduction to Anthropology 3
ANT 221  Cultural Anthropology 3
ANT 228  Cross-Cultural Relationships 3
ARA 222  Intermediate Modern Standard Arabic II 4
ART 240  History of Art I 3
ART 241  History of Art II 3
BUS 121  Introduction to Business 3
CHM 142  Chemistry for a Changing World-Lab 4

CHOOSE FROM RECOMMENDED COURSES:

CHOOSE FROM RECOMMENDED COURSES:

Note: This plan includes recommendations for students who plan to major in this subject at a four year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

A study abroad program for a short term (2-3 weeks) or for a long term (one semester) is highly recommended for students who are seeking an A.A. degree in International Studies. College of Lake County offers a variety of study abroad programs to several countries in the world every academic year.

For more information on recommended courses or program specific advising, contact the Business and Social Sciences Division at (847) 543-2047.
LATIN-AMERICAN STUDIES
Communication Arts, Humanities and Fine Arts Division, Room B213, (847) 543-2040
www.clcillinois.edu/programs/lat

Degree: Associate in Arts
Plan 13AB

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

FIRST SEMESTER 15
ENG 121 English Composition I 3
Humanities and Fine Arts Recommended Courses 3
Math Elective 3
Social Science Recommended Courses 3
Area of Concentration/Elective Requirements 3

SECOND SEMESTER 15
ENG 122 English Composition II or Advanced Composition: Scientific and Technical Communications 3
Humanities and Fine Arts Recommended Courses 3
Physical and Life Science without Lab 3
Area of Concentration/Elective Requirements 6

THIRD SEMESTER 16
CMM 121 Fundamentals of Speech 3
Humanities and Fine Arts Recommended Courses 3
BIO 120 Environmental Biology 4
Area of Concentration/Elective Requirements 6

FOURTH SEMESTER 14
Area of Concentration/Elective Requirements 8
Social Science Recommended Courses 6

SOCIAL SCIENCES RECOMMENDED COURSES — CHOOSE 9 CREDITS
ANT 221 Cultural Anthropology 3
ANT 228 Cross Cultural Relationships 3
GEG 122 Cultural Geography** 3
GEG 123 World Regional Geography ** 3
PSY 121 Introduction to Psychology 3
PSY 225 Social Psychology 3
SOC 121 Introduction to Sociology 3
SOC 225 Class, Race and Gender

HUMANITIES AND FINE ARTS RECOMMENDED COURSES
CHOOSE 9 CREDITS
ART 240 History of ART I 3
ART 241 History of ART II 3
HUM 121 Humanities: Ancient Times to the Middle Ages 3
HUM 122 Humanities: Renaissance to the Present 3
HUM 140 Introduction to International Film 3

AREA OF CONCENTRATION/ELECTIVE REQUIREMENTS — CHOOSE 23 CREDITS
LAT 121 Introduction to Latin Studies (Strongly Recommended) 3
ANT 121 Introduction to Anthropology 3
ANT 226 Field Methods-Latin America 3
ENG 246 Latin American Writers 3
GEG 223 Geography of Latin America 3
HST 245 History of Latin America to 1825 3
HST 246 History of Latin America from 1825 3
SPA 121 Beginning Spanish I 4
SPA 122 Beginning Spanish II 4
SPA 221 Intermediate Spanish I 4
SPA 222 Intermediate Spanish II 4
SPA 223 Spanish Civilization I 3
SPA 224 Spanish Civilization II 3
Special Topics *** 3

**GEG 122 and GEG 123 share an IAI number. Only one of these courses will count toward meeting the general education core curriculum requirement. If both are taken, one will count as an elective.

***Courses offered in different areas centered in Latin America if available

Note: This plan includes recommendations for students who plan to major in this subject at a four year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses or program specific advising, contact the Communication Arts, Humanities and Fine Arts Division at (847) 543-2040.
**PHILOSOPHY**
Communication Arts, Humanities and Fine Arts Division, Room B213, (847) 543-2040  
www.clcillinois.edu/programs/phi

**Degree:** Associate in Arts  
**Plan 13AB**

The following courses are **recommended** for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are **strongly encouraged** to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

**FIRST SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>ENG 121</td>
<td>3</td>
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<tr>
<td>Area of Concentration/Elective Requirements</td>
<td>6</td>
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<td>Fine Arts Elective</td>
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<tr>
<td>Math Elective</td>
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**SECOND SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 122</td>
<td>3</td>
</tr>
<tr>
<td>Area of Concentration/Elective Requirements</td>
<td>3</td>
</tr>
<tr>
<td>Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>ANT 121</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Anthropology (Recommended Social Science Course)</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science without Lab Electives</td>
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**THIRD SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>CMM 121</td>
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<tr>
<td>Fundamentals of Speech Area of Concentration/Elective Requirements</td>
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</tr>
<tr>
<td>ANT 221</td>
<td>3</td>
</tr>
<tr>
<td>Cultural Anthropology (Recommended Social Science Course)</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science with Lab Electives</td>
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**FOURTH SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
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<td>PSY 121</td>
<td>3</td>
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<tr>
<td>Area of Concentration/Elective Requirements</td>
<td>8</td>
</tr>
<tr>
<td>Humanities and Fine Arts Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**AREA OF CONCENTRATION/ELECTIVE REQUIREMENTS**

See page 379 for PHI course selections.

**Note:** This plan includes **recommendations** for students who plan to major in this subject at a four year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses or program specific advising, contact the following faculty or the Communication Arts, Humanities and Fine Arts Division at (847) 543-2040.

- Edwin George
- Leslie Hopkins
- Rebecca Thall
- Jackie Trimier
TECHNICAL COMMUNICATION
Communication Arts, Humanities and Fine Arts Division, Room B213, (847) 543-2040
www.clicillinois.edu/programs/tec

Degree: Associate in Applied Science, Technical Communication
Plan 23TA

Technical communicators are employed in a wide variety of occupational areas to produce the written documentation required at each step of the manufacturing process. They provide the communication links between divergent technical specialties as well as between different levels of technical expertise. This program offers training in both communication skills and technical skills. These skills may be gained two ways: by specializing in communications and electing a technical area or areas, or by specializing in a technical area and electing communications courses.

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

FIRST SEMESTER  15-17
CMM 121  Fundamentals of Speech or
CMM 128  Interviewing Practices  3
ENG 121  English Composition I  3
HUM 127  Critical Thinking or
PHI 122  Logic or
MTH 117  Technical Mathematics I or
MTH 122  College Algebra or
MTH 141  Quantitative Literacy  3-5
PSY 122  Psychology of Business and Industry  3

SECOND SEMESTER  15
ENG 120  Technical Composition I  3
AOS 113  Comprehensive Word Processing or
ART 271  Introduction to Electronic Graphic Publishing or
DMD 121  Introduction to Graphic Design  3
CIT Elective or
DMD 116  Web Design and Development  3
ART 111  Printing Production or
DMD 125  Printing Production  3
English Elective (see following list)  3

THIRD SEMESTER  17-19
ART 129  Introduction to Photography I or
ART 222  Computer Art I or
EGR 121  Engineering Graphics or
ELT 111  Electronic Drafting  2-3
MTH 118  Technical Mathematics II or
MTH 123  Trigonometry or
MTH Elective (higher than MTH 123)*  3-4

ENG 126  Advanced Composition: Scientific and Technical Communications  3
Required Technical Specialty Courses  9

FOURTH SEMESTER  13-14
Social Science Elective  3
Required Technical Specialty Courses  7

ENG 113  Technical Communication Practicum or
EWE 120  Job Readiness Skills and
ENG 266  Professional Communication  3-4

Total Hours A.A.S. Degree  60-65

REQUIRED TECHNICAL SPECIALTY COURSEWORK
Choose technical specialty electives from fields such as advertising, data processing, electronics, engineering, publicity, or public relations, sales management, sales promotion, or software development.

Select a minimum of 16 hours from the following courses:
BUS 121, 122, 212, 213, 214, 216, 221, 270*
CIT 111, 112, 119, 170, 211, 239
DMD 111, 115, 116, 117, 218, 219, 273, 279
EIT 111, 210, 211
EGR 121
ELT 111
HIT 111, 113, 114, 116, 172, 174, 217
MTH 114, 115, 117, 118
PLS 110, 112, 212

* Students interested in careers in advertising, sales management, sales promotion, publicity or public relations should select these courses
## English Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 122</td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>ENG 124</td>
<td>Newswriting I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 137</td>
<td>Document Design in Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENG 220</td>
<td>Introduction to Scriptwriting for Video, TV and Film</td>
<td>3</td>
</tr>
<tr>
<td>ENG 222</td>
<td>Creative Writing I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 224</td>
<td>Creative Writing II</td>
<td>3</td>
</tr>
</tbody>
</table>

## Choosing a Dual Degree

A student may elect to receive two Associate Degrees, one in Technical Communication and one in a technical field (such as electronics, engineering, etc.). This option is possible because many of the same general education courses are required in both programs and because 15-20 credit hours of technically specialized courses count towards the A.A.S. in Technical Communication. Thus, a student may earn this degree in connection with another degree program by adding the necessary written communications and graphics courses. See a Student Development Counselor or advisor for more information.

## Technical Communication (Certificate) Plan 23TG

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>ENG 120</td>
<td>Technical Composition I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENG 121</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ART 111</td>
<td>Printing Production or</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>DMD 125</td>
<td>Printing Production</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CMM 128</td>
<td>Interviewing Practices</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>DMD 116</td>
<td>Web Design &amp; Development</td>
<td>3</td>
</tr>
<tr>
<td>Second</td>
<td>ENG 126</td>
<td>Advanced Composition: Scientific and Technical Communication</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENG 266</td>
<td>Professional Communication</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENG 113</td>
<td>Technical Communication Practicum</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ART 222</td>
<td>Introduction to Computer Art</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total hours for Certificate**: 30

Gainful Employment Information: www.clcillinois.edu/getec

For more information on recommended courses or program specific advising, contact faculty member Lori Allen at (847) 543-2732 or the Communication Arts, Humanities and Fine Arts division at (847) 543-2040.

## Professional Technical Communication (Certificate) Plan 23TI

This certificate is appropriate for students who have already completed a degree in another field, and wish to retrain and re-enter the job force.

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>ENG 120</td>
<td>Technical Composition I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ART 111</td>
<td>Printing Production or</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>DMD 125</td>
<td>Printing Production</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>DMD 116</td>
<td>Web Design &amp; Development</td>
<td>3</td>
</tr>
<tr>
<td>Second</td>
<td>ENG 126</td>
<td>Advanced Composition: Scientific and Technical Communication</td>
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<tr>
<td></td>
<td>ENG 266</td>
<td>Professional Communication</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENG 113</td>
<td>Technical Communication Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total hours for Certificate**: 18

Gainful Employment Information: www.clcillinois.edu/getec

For more information on recommended courses or program specific advising, contact faculty member Lori Allen at (847) 543-2732 or the Communication Arts, Humanities and Fine Arts division at (847) 543-2040.
WORLD LANGUAGES: FRENCH

Communication Arts, Humanities and Fine Arts Division, Room B213, (847) 543-2040
www.clcillinois.edu/programs/french

Degree: Associate in Arts
Plan 13AB

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

FIRST SEMESTER 16
FRN 121 Beginning Conversational French I 4
ENG 121 English Composition I 3
Social Science Elective (see recommended courses list) 3
Math Elective 3
Humanities/Fine Arts Elective (see recommended course list) 3

SECOND SEMESTER 14
FRN 122 Beginning Conversational French II 4
ENG 122 English Composition II 3
ENG 126 Advanced Composition: Scientific and Technical Communications 3
Social Science Elective (see recommended courses list) 3
BIO 120 Environmental Biology 4

THIRD SEMESTER 16
FRN 221 Intermediate French I 4
CMM 121 Fundamentals of Speech 3
Social Science Elective (see recommended courses list) 3
Physical Science without Lab Electives 3
Humanities/Fine Arts Elective (see recommended course list) 3

FOURTH SEMESTER 12
FRN 222 Intermediate French II 4
Humanities/Fine Arts Elective (see recommended course list) 3
Additional Electives as Needed 5

ADDITIONAL LANGUAGE COURSES NEEDED
FRN 223 French Civilizations I 3
FRN 224 French Civilizations II 3

Please note that depending on your level of French Placement you may need to take French Coursework in Summer Session to complete course work in two years.

SOCIAL SCIENCE RECOMMENDED COURSES
CHOOSE 9 CREDITS
ANT 221 Cultural Anthropology 3
ANT 228 Cross Cultural Relationships 3
GEG 122 Cultural Geography or
GEG 123 World Regional Geography 3
PSY 121 Introduction to Psychology 3
PSY 225 Social Psychology 3
SOC 121 Introduction to Sociology 3
SOC 225 Class, Race and Gender 3

HUMANITIES AND FINE ARTS RECOMMENDED COURSES
CHOOSE 9 CREDITS
ART 240 History of Art I 3
ART 241 Humanities: Ancient Times to the Middle Age or
HUM 121 History of Art II 3
HUM 122 Humanities: Renaissance to the Present 3
HUM 140 Introduction to International Film 3

Note: This plan includes recommendations for students who plan to major in this subject at a four year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses or program specific advising, contact the following faculty or the Communication Arts, Humanities and Fine Arts Division at (847) 543-2040.

Theresa Ruiz-Velasco | Olivia Yanez
WORLD LANGUAGES:
SPANISH
Communication Arts, Humanities and Fine Arts Division, Room B213, (847) 543-2040
www.clcillinois.edu/programs/for

Degree: Associate in Arts
Plan 13AB

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FIRST SEMESTER
ENG 121 English Composition I 3
Humanities/Fine Arts Elective (see recommended courses list) 3
Math Elective 3
Social Science Elective (see recommended courses list) 3
SPA 121 Beginning Spanish I 4

SECOND SEMESTER
BIO 120 Environmental Biology 4
ENG 122 English Composition II or Advanced Composition: Scientific and Technical Communications 3
ENG 126 Social Science Elective (see recommended courses list) 3
SPA 122 Beginning Spanish II 4

THIRD SEMESTER
CMM 121 Fundamentals of Speech Humanities/Fine Arts Elective (see recommended courses list) 3
Physical Science without lab Elective 3
Social Science Elective (see recommended courses list) 3
SPA 221 Intermediate Spanish I 4

FOURTH SEMESTER
Additional Electives 8
Humanities/Fine Arts Elective (see recommended courses list) 3
SPA 222 Intermediate Spanish II 4

FIFTH SEMESTER
SPA 223 Spanish Civilization I 3

SIXTH SEMESTER
SPA 224 Spanish Civilization II 3

Total Hours for A.A. Degree 60

SOCIAL SCIENCE RECOMMENDED COURSES
CHOOSE 9 CREDITS
ANT 221 Cultural Anthropology 3
ANT 228 Cross Cultural Relationships 3
GEG 122 Cultural Geography or GEG 123 World Regional Geography 3
PSY 121 Introduction to Psychology 3
PSY 225 Social Psychology 3
SOC 121 Introduction to Sociology 3
SOC 225 Class, Race and Gender 3

HUMANITIES AND FINE ARTS RECOMMENDED COURSES
CHOOSE 9 CREDITS
ART 240 History of Art I 3
ART 241 Humanities: Ancient Times to the Middle Age or HUM 121 History of Art II 3
HUM 122 Humanities: Renaissance to the Present 3
HUM 140 Introduction to International Film 3

Note: This plan includes recommendations for students who plan to major in this subject at a four year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses or program specific advising, contact the following faculty or the Communication Arts, Humanities and Fine Arts Division at (847) 543-2040.

Theresa Ruiz-Velasco | Olivia Yanez
DEGREES/CERTIFICATES

SOCIAL SCIENCES PATHWAY

ANTHROPOLOGY
EDUCATION
• EARLY CHILDHOOD
• ELEMENTARY
• SECONDARY
• SPECIAL EDUCATION

GENDER AND SEXuality STUDies
HISTORY
HUMAN SERVICES
POLITICAL SCIENCE
PSYCHOLOGY
SOCIAL WORK
SOCIOLOGY
TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES (TESOL)
WHAT IS YOUR PLAN AFTER CLC?

I WANT TO TRANSFER TO A FOUR-YEAR COLLEGE OR UNIVERSITY.

The Associate in Arts (A.A.), Associate in Science (A.S.) or other specially focused transfer degrees will probably be your best bet.

- **Associate in Arts (A.A.) degree** - typically ranges from 60-64 credit hours and should parallel the first two years of a liberal arts-related baccalaureate degree program.
- **Associate in Science (A.S.) degree** - typically ranges from 60-64 credit hours and should parallel the first two years of a science-related baccalaureate degree program.
- There are other specialized Associate’s transfer degrees in Engineering and Fine Arts (Art and Music).

Some colleges will accept credits earned through an Associate in Applied Science (A.A.S) but it would be best to confirm with the school you plan to attend next.

Whatever your plan, it is best to think about what college and major you would like to transfer to and design your coursework around the requirements of that institution. Student development counselors are experts on transfer planning and are happy to help!

I WANT TO START WORKING IN MY CHOSEN FIELD.

The Associate in Applied Science (A.A.S) is a degree designed to help students get into their chosen careers with the knowledge and skills needed by specific industries. These programs were created to provide tangible abilities in a field so that you can either find a job or upgrade your current job when you leave CLC.

Many programs also offer short-term certificates that can help get you into the workforce quickly. These certificates may cover a specific proficiency or technical ability to give you a jumpstart in the field. Many can be stacked together to work toward a degree.

- **Associate in Applied Science (A.A.S.) degree** – typically ranges from 60-72 credit hours and focuses on real-world career skills.
- **Career Certificates** – typically range from 9-30 credit hours and focus on a specialized skill.

I AM NOT REALLY SURE WHAT I WANT TO DO NEXT.

That is okay! At CLC, there are many people such as student development counselors, career counselors, academic advisors, and faculty who can help you discover your path. Page 21 has contact information for the people that can help. If you would like to discuss career interests or talk to someone about taking classes that could work for many degree or certificate options, stop by the Counseling, Advising, and Transfer Center.

This catalog is organized by fields of interest. Reading through this information may help spur an idea for you to explore further. For example, you may be interested in the Healthcare field; the Wellness and Health Sciences field of interest offers many options for you to consider.
ASSOCIATE IN ARTS (13AB)

Students may obtain an Associate in Arts degree from the College of Lake County by successfully meeting college requirements and course requirements outlined below.

The College of Lake County is a participant in the Illinois Articulation Initiative (IAI), a major statewide cooperative agreement that eases the transfer process of the completed Illinois General Education Core Curriculum among participating institutions.

COMMUNICATION - 9 CREDIT HOURS
A grade of C or better is required for both ENG courses.

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<tr>
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<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>CMM 121</td>
<td>Fundamentals of Speech (3)</td>
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<td>ENG 121</td>
<td>English Composition I (3)</td>
<td>C1 900</td>
</tr>
<tr>
<td>ENG 122</td>
<td>English Composition II (3)</td>
<td>C1 901 ROR</td>
</tr>
<tr>
<td>ENG 126</td>
<td>Advanced Composition: Scientific and Technical Communications (3)</td>
<td>C1 901 R</td>
</tr>
</tbody>
</table>

SOCIAL AND BEHAVIORAL SCIENCE - 9 CREDIT HOURS
Select courses from at least two different disciplines i.e. different prefixes.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ANT 121+</td>
<td>Introduction to Anthropology (3) S1 900N</td>
<td>S1 901N</td>
</tr>
<tr>
<td>ANT 221+</td>
<td>Cultural Anthropology (3)</td>
<td>S1 901N</td>
</tr>
<tr>
<td>ANT 222</td>
<td>Introduction to Physical Anthropology (3) S1 902</td>
<td>S1 903</td>
</tr>
<tr>
<td>ANT 224</td>
<td>Introduction to Archaeology (3) S1 903</td>
<td>S1 904D</td>
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<tr>
<td>ANT 228+</td>
<td>Cross-Cultural Relationships (3) S1 904D</td>
<td>S1 904D</td>
</tr>
<tr>
<td>ECO 221</td>
<td>Principles of Macroeconomics (3) S3 901</td>
<td>S3 902</td>
</tr>
<tr>
<td>ECO 222</td>
<td>Principles of Microeconomics (3) S3 902</td>
<td>S3 902</td>
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<tr>
<td>GEG 122</td>
<td>Cultural Geography (3)</td>
<td>S4 900N</td>
</tr>
<tr>
<td>GEG 123</td>
<td>World Regional Geography (3)</td>
<td>S4 900N</td>
</tr>
<tr>
<td>GXS 121+</td>
<td>Introduction to Gender Studies (3) S9 900</td>
<td>S9 900D</td>
</tr>
<tr>
<td>GXS 229+</td>
<td>Sex, Gender, and Power (3)</td>
<td>S7 904D</td>
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<tr>
<td>HST 121+</td>
<td>History of Western Civilization to 1500 (3) S2 902</td>
<td>S2 902</td>
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<tr>
<td>HST 122+</td>
<td>History of Western Civilization 1500 to Present (3)S2 903</td>
<td>S2 903</td>
</tr>
<tr>
<td>HST 126+</td>
<td>History of Contempory Non-Western Civilization (3)S2 905N</td>
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PHYSICAL AND LIFE SCIENCES - 7 CREDIT HOURS
One course must be selected from Physical Science and one course from Life Science. At least one course must be a laboratory science course (L).

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>HST 127+</td>
<td>History of Chinese Culture and Society (3) S2 920N</td>
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<tr>
<td>HST 221</td>
<td>United States History to 1876 (3)</td>
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<td>HST 222</td>
<td>United States History 1876 to Present (3) S2 901</td>
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<td>HST 245+</td>
<td>History of Latin America to 1825 (3) S2 920N</td>
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<td>HST 246+</td>
<td>History of Latin America from 1825 (3) S2 920N</td>
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<td>PSC 121</td>
<td>American National Politics (3)</td>
<td>S5 900</td>
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<tr>
<td>PSC 122</td>
<td>State and Local Politics (3)</td>
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<td>PSC 221+</td>
<td>Comparative Political Systems (3) S5 905</td>
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<tr>
<td>PSC 222+</td>
<td>International Relations (3)</td>
<td>S5 904N</td>
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<td>PSY 121</td>
<td>Introduction to Psychology (3)</td>
<td>S6 900</td>
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<tr>
<td>PSY 220</td>
<td>Lifespan Development (3)</td>
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<td>PSY 222</td>
<td>Child Growth and Development (3) S6 903</td>
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<td>PSY 225</td>
<td>Social Psychology (3)</td>
<td>S8 900</td>
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<tr>
<td>PSY 226</td>
<td>Adolescent Psychology (3)</td>
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<tr>
<td>SOC 121</td>
<td>Introduction to Sociology (3)</td>
<td>S7 900</td>
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<tr>
<td>SOC 122</td>
<td>Social Problems (3) S7 901</td>
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<td>SOC 222</td>
<td>Sociology of the Family (3)</td>
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<tr>
<td>SOC 224</td>
<td>Class, Race, and Gender (3)</td>
<td>S7 903D</td>
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<tr>
<td>SOC 225+</td>
<td>Sex, Gender, and Power (3)</td>
<td>S7 904D</td>
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<td>SOC 229+</td>
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<td>S7 904D</td>
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MATHMATICS – 3 CREDIT HOURS

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<td>Finite Mathematics I (3)</td>
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<td>MTH 140</td>
<td>Contemporary Mathematics (3)</td>
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<td>MTH 141</td>
<td>Quantitative Literacy (3)</td>
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<tr>
<td>MTH 142</td>
<td>General Education Statistics (3)</td>
<td>M1 902</td>
</tr>
<tr>
<td>MTH 145</td>
<td>Calculus and Analytic Geometry I (5) M1 900-1</td>
<td>M1 900-1</td>
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<td>MTH 146</td>
<td>Calculus and Analytic Geometry II (4) M1 900-2</td>
<td>M1 900-2</td>
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<tr>
<td>MTH 221</td>
<td>Mathematics for Elementary Teaching II (3) M1 903</td>
<td>M1 903</td>
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<td>MTH 222</td>
<td>Business Statistics (4) M1 902</td>
<td>M1 902</td>
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<tr>
<td>MTH 224</td>
<td>Calculus for Business and Social Science (4) M1 900-B</td>
<td>M1 900-B</td>
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<tr>
<td>MTH 244</td>
<td>Discrete Mathematics (3)</td>
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<td>MTH 246</td>
<td>Calculus and Analytic Geometry III (5) M1 900-3</td>
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LAB: Laboratory
HUMANITIES AND FINE ARTS – 9 CREDIT HOURS

At least one course must be selected from the Humanities section and one course from the Fine Arts section.

HUMANITIES

- ARA 222+ Intermediate Modern Standard Arabic II (4) H1 900
- CHI 222+ Intermediate Chinese II (4) H1 900
- ENG 129+ Women in Literature (3) H3 911D
- ENG 223 Early American Literature (3) H3 914
- ENG 225 Survey of British Literature I (3) H3 913
- ENG 226 Survey of British Literature II (3) H3 913
- ENG 227 Introduction to Shakespeare (3) H3 905
- ENG 228+ World Literature (3) H3 906
- ENG 229 20th Century American Literature (3) H3 915
- ENG 241 Introduction to Poetry (3) H3 903
- ENG 243 Introduction to Fiction (3) H3 901
- ENG 244+ Mythology and Fairy Tales (3) H3 901
- ENG 246+ Latin American Writers (3) H3 908N
- ENG 247+ International Women Writers (3) H3 911D
- ENG 249 Children’s Literature (3) H3 918
- FRN 222+ Intermediate French II (4) H1 900
- FRN 223 French Civilization I (3) H1 900
- FRN 224 French Civilization II (3) H1 900
- GER 222+ Intermediate German II (4) H1 900
- GER 224 German Civilization II (3) H1 900
- HUM 121+ Humanities: Ancient Times to the Middle Ages (3) HFL 902
- HUM 122+ Humanities: Renaissance to the Present (3) HFL 903
- HUM 127 Critical Thinking (3) HFL 906
- HUM 128+ Introduction to Middle-Eastern Civilizations (3) HFL 903 N
- HUM 129+ Introduction to East Asian Civilization (3) HFL 904 N
- HUM 141+ World Humanities 20/21st Century (5) HFL 904 N
- HUM 211+ American Decades (3) HFL 906 D
- HUM 226+ Women and the Arts (3) HFL 907 D
- HUM 222+ Introduction to Latin-American Studies (3) HFL 906D
- LAT 121
- PHI 121 Introduction to Philosophy (3) HFL 904
- PHI 122
- PHI 123
- PHI 125+ Introduction to Ethics (3) HFL 904
- PHI 126+ World Religions (3) HFL 904N
- PHI 128
- PHI 221+ Introduction to Social and Political Philosophy (3) HFL 907
- PHI 223+ Asian Philosophy (3) HFL 903N
- PHI 224+ Intermediate Russian II (4) HFL 901
- PHI 225+ Intermediate Spanish II (4) HFL 901
- PHI 226+ Spanish Civilization I (3) HFL 901
- PHI 228+ Spanish Civilization II (3) HFL 901

FINES ARTS

- ART 121+ Introduction to Art (3) F1 900
- ART 240+ History of Art I (3) F1 901
- ART 241+ History of Art II (3) F1 902
- ART 260+ History of Photography (3) F2 904
- ART 261+ Non-Western Art History (3) F2 903N
- DNC 240+ The Art of Dance (3) F1 906
- HUM 121+ Humanities: Ancient Times to the Middle Ages (3) HFL 902
- HUM 122+ Humanities: Renaissance to the Present (3) HFL 903
- HUM 123+ Introduction to Film (3) F2 908
- HUM 126+ Introduction to the Performing Arts (3) F3 900
- HUM 129+ Introduction to East Asian Civilization (3) HFL 904 N
- HUM 140+ World Humanities 20/21st Century (3) HFL 904N
- HUM 211+ American Decades (3) HFL 906D
- HUM 214+ Film and Society (3) F2 908
- HUM 216+ Women and the Arts (3) HFL 907D
- HUM 222+ Music Appreciation (3) F1 900
- HUM 226+ Music Literature (3) F1 902
- HUM 231+ Introduction to Theatre I (3) F1 907
- HUM 233+ Diversity in American Theatre (3) F1 909D
- INT 222+ Intermediate Italian II (4) H1 900
- JPN 222+ Japanese Civilization I (3) H1 900
- LAT 211 Introduction to Latin-American Studies (3) HFL 906D
- PHI 121 Introduction to Philosophy (3) HFL 904
- PHI 122
- PHI 123
- PHI 125+ Introduction to Ethics (3) HFL 904
- PHI 126+ World Religions (3) HFL 904N
- PHI 128
- PHI 221+ Introduction to Social and Political Philosophy (3) HFL 907
- PHI 223+ Asian Philosophy (3) HFL 903N
- PHI 224+ Intermediate Russian II (4) HFL 901
- PHI 225+ Intermediate Spanish II (4) HFL 901
- PHI 226+ Spanish Civilization I (3) HFL 901
- PHI 228+ Spanish Civilization II (3) HFL 901

INTERNATIONAL/MULTICULTURAL REQUIREMENTS

Choose one course with a + following the course number OR one of the following:
- ASI 121, CMM 127, ECO 225, EDU 224, ENG 263, 264, GS 221, 299, HST 128, LAT 121, PDS 123, PHI 128, 129, PSY 229, SSI 121.
- This course can fulfill both the I/M requirement and a Social Science, Humanities, Fine Arts, or Elective requirement. A B.A. degree at many four year colleges may require college level foreign language.

AREA OF CONCENTRATION/ELECTIVE REQUIREMENTS - 23 CREDIT HOURS

- Choose elective courses with a 1.1 (transfer course) PCS code that relate to your intended major. Students should choose electives only after consulting with an Advising Professional. The PCS code for each course is listed in the course descriptions starting on page 224 of this catalog. Up to six hours of courses with a 1.2 (career course) PCS code may be used as general electives in the degree. All 199 courses are exempt from this rule. Students should select these courses only after they have verified their transferability with their Advising Professional or the transfer institution.
- Students may not receive credit towards degree for both CHM 140 and CHM 142, or both BIO 120 and BIO 140, or both ESC 123 and ESC 127.
- Students with credit for both MTH 122 and MTH 123 will not be given credit for MTH 144. Students may not receive credit towards degree for both (MTH 122 and MTH 144) or (MTH 123 and MTH 144).
- Please review lists of recommended courses for individual programs of study listed on pages 58-262 in this catalog.

Total A.A. Degree Requirements 60 credit hours

OTHER GRADUATION REQUIREMENTS

- Cumulative CLC GPA of 2.00 or higher
- Completion of at least 15 credit hours at CLC
- Petition to Graduate: The Petition to Graduate form must be submitted to the Welcome and One-Stop Center to have your degree processed. It can be found online at www.clcillinois.edu/petition. Contact Admissions for more information at (847) 543-2061. Deadlines to Petition: Spring – February 15; Summer – July 1; Fall – October 1
**SOCIAL SCIENCES PATHWAY**

**Business and Social Sciences Division**  
Room T302, (847) 543-2047

**Degree:** Associate in Arts  
**Plan 13AB**

This pathway is for students who intend to transfer and major in the social sciences but have not selected a specific field such as Anthropology, Gender and Sexuality Studies, History, International Studies, Political Science, Psychology, and Sociology. Students who have decided on a specific intended major in these areas should refer to the recommended Course of Study on pages 37.

The following courses are **recommended** for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are **strongly encouraged** to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

### FIRST SEMESTER  
**14-15**

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<tr>
<td>ENG 121</td>
<td>English Composition I</td>
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<tr>
<td>PSY 121</td>
<td>Introduction to Psychology</td>
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<tr>
<td>SOC 121</td>
<td>Introduction to Sociology</td>
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<tr>
<td>ART 121</td>
<td>Recommended Fine Arts Course (Choose One)</td>
</tr>
<tr>
<td>CMM 121</td>
<td>Fundamentals of Speech</td>
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<tr>
<td>CHM 140</td>
<td>Chemistry for a Changing World</td>
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<td>ESC 128</td>
<td>Great Mysteries of the Earth</td>
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<tr>
<td>GEG 121</td>
<td>Physical Geography</td>
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### SECOND SEMESTER  
**16**

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<td>English Composition II</td>
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<td>MTH 141</td>
<td>Quantitative Literacy</td>
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<tr>
<td>MTH 142</td>
<td>General Education Statistics</td>
</tr>
<tr>
<td>ART 121</td>
<td>Introduction to Anthropology</td>
</tr>
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<td>Recommended Math Course (Choose One)</td>
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<tr>
<td>ENG 129</td>
<td>Women in Literature</td>
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<tr>
<td>ENG 228</td>
<td>World Literature</td>
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<tr>
<td>ENG 246</td>
<td>Latin American Writers</td>
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<td>ENG 247</td>
<td>International Women Writers</td>
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### THIRD SEMESTER  
**15**

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<tr>
<td>MTH 141</td>
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<td>BIO 120L</td>
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<td>BIO 123L</td>
<td>Principles of Biology</td>
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<td>BIOL 161L</td>
<td>General Biology</td>
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<tr>
<td>Recommended Humanities/ Fine Arts Course (Choose One)</td>
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<tr>
<td>HUM 127</td>
<td>Critical Thinking</td>
</tr>
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<td>HUM 221</td>
<td>American Decades</td>
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<td>PHI 122</td>
<td>Logic</td>
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<td>PHI 125</td>
<td>Introduction to Ethics</td>
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### FOURTH SEMESTER  
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<td>BIO 123L</td>
<td>Principles of Biology</td>
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<tr>
<td>Recommended Life Science Course (Choose One)</td>
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<td>Recommended Elective Course 1</td>
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</table>

**Total Hours for A.A. Degree:** 60-64

Prior to selecting your third semester courses, please schedule an appointment with your academic advisor/Student Development Counselor to finalize your academic field of study and desired transfer institution. These decisions will impact which elective courses you should select during your second year.

- **The Courses listed below are recommended for students considering a major in the social sciences.**
HIGHLY RECOMMENDED:
HST 122  History of Western Civilization 1500 to present
PHI 121  Introduction to Philosophy
PSC 121  American National Politics
PSY 225  Social Psychology
SOC 222  Social Problems

ALSO RECOMMENDED:
ANT 221  Cultural Anthropology
ENG 128  Linguistics and Society
GEG 122  Cultural Geography
GEG 123  World Regional Geography
GXS 229  (also SOC 229) Sex, Gender, and Power
HST 223  American Popular Culture
HST 225  American Labor History
PDS 120  Becoming a Successful College Student (2 credits)
PDS 122  Career Exploration (1 credit)
PDS 124  Transition to College (1 credit)

2 Students who intend to transfer and major in psychology should take BIO 161L.

Note: This plan includes recommendations for students who plan to major in this subject at a four year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses or program specific advising, contact the Business and Social Sciences Division at (847) 543-2047.
## ANTHROPOLOGY
Business and Social Sciences Division  
Room T302, (847) 543-2047  
www.clcillinois.edu/programs/ant

**Degree:** Associate in Arts  
Plan 13AB

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

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<tbody>
<tr>
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<td>ART 240</td>
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<td>MTH 127</td>
<td>Finite Math or MTH 142</td>
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<td>PHI 126</td>
<td>World Religions</td>
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<td>ANT 221</td>
<td>Cultural Anthropology</td>
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<tr>
<td>ANT 222</td>
<td>Introduction to Physical Anthropology</td>
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<td>ANT 224</td>
<td>Introduction to Archeology</td>
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<td>ANT 226</td>
<td>Cross-Cultural Relationships</td>
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<td>ANT 228</td>
<td>Foreign Language or Additional Electives as Needed</td>
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</table>

*Math requirements vary at four-year institutions*

*Physical Science and Life Science Electives: at least one course must be a laboratory science course (L).*

**Note:** This plan includes recommendations for students who plan to major in this subject at a four-year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses or program specific advising, contact the following faculty or the Business and Social Sciences Division at (847) 543-2047.

Wendy Brown | Scott Palumbo
**EDUCATION – EARLY CHILDHOOD**

**Business and Social Sciences Division**
Room T302, (847) 543-2047
www.clcillinois.edu/programs/ece

**Degree:** Associate in Arts
**Plan 13AB**

The following courses are **recommended** for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are **strongly encouraged** to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37. All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

### FIRST SEMESTER

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<td>MTH 121</td>
<td>Math for Elementary Teaching I (elective)</td>
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<tr>
<td>PSY 121</td>
<td>Introduction to Psychology</td>
<td>3</td>
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<tr>
<td>ART 240+</td>
<td>History of Art I or Art 121 Introduction to Art</td>
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</tr>
<tr>
<td>ART 241+</td>
<td>History of Art II or ART 260 History of Photography</td>
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</tr>
<tr>
<td>ECE 121</td>
<td>Introduction to Early Childhood Ed* (elective)</td>
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### SECOND SEMESTER

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<th>Title</th>
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<td>Math for Elementary Teaching II</td>
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<tr>
<td>BIO 120</td>
<td>Environmental Biology or BIO 141 Concepts in Biology</td>
<td>4</td>
</tr>
<tr>
<td>PHI 125+</td>
<td>Introduction to Ethics or PHI 225+ American Decades</td>
<td>3</td>
</tr>
<tr>
<td>HUM 221+</td>
<td>Child Development for Educators (elective)</td>
<td>3</td>
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### THIRD SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tr>
<td>CMM 121</td>
<td>Fundamentals of Speech</td>
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<tr>
<td>CHM 142</td>
<td>Chemistry for a Changing World or</td>
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<td>PHY 120</td>
<td>Practical Aspects of Physics</td>
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<td>PSC 121++</td>
<td>American National Politics</td>
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<tr>
<td>MUS 124</td>
<td>Music Appreciation Concentration/Elective</td>
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</table>

### FOURTH SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>HST 221</td>
<td>United States History to 1876 or</td>
<td>3</td>
</tr>
<tr>
<td>HST 222</td>
<td>United States History 1876 to present</td>
<td>Concentration/Elective</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Concentration/Elective</td>
</tr>
<tr>
<td></td>
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<td>Concentration/Elective</td>
</tr>
<tr>
<td></td>
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<td>Concentration/Elective</td>
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</tbody>
</table>

**CONCENTRATION/ELECTIVES**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 121*</td>
<td>Introduction to Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>ECE 124</td>
<td>Child Development for Educators</td>
<td>3</td>
</tr>
<tr>
<td>ECE 141</td>
<td>Health, Safety and Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>ECE 215</td>
<td>Music Activities for Young Children</td>
<td>3</td>
</tr>
<tr>
<td>ECE 220***</td>
<td>Observation and Assessment</td>
<td>3</td>
</tr>
<tr>
<td>ECE 223</td>
<td>Child, Family and Community</td>
<td>3</td>
</tr>
<tr>
<td>ECE 229</td>
<td>Language Development and Early Literacy</td>
<td>3</td>
</tr>
<tr>
<td>ECE 233</td>
<td>Young Children with Special Needs</td>
<td>3</td>
</tr>
<tr>
<td>ECE 242</td>
<td>Math Activities for Young Children</td>
<td>3</td>
</tr>
<tr>
<td>EDU 121</td>
<td>Introduction to Teaching</td>
<td>3</td>
</tr>
<tr>
<td>EDU 222</td>
<td>The Exceptional Child</td>
<td>3</td>
</tr>
<tr>
<td>EDU 223</td>
<td>Technology in the Classroom</td>
<td>3</td>
</tr>
<tr>
<td>EDU 224+</td>
<td>Diversity in Schools and Society</td>
<td>3</td>
</tr>
<tr>
<td>EDU 242**</td>
<td>Observation/Clinical Experience in Education</td>
<td>1</td>
</tr>
</tbody>
</table>

Math requirements vary at four-year institutions.

+ Choose from these courses to fulfill the I/M requirement. EDU 224 is strongly recommended for this program of study.
++ PSC 121 is required by most 4-year institutions
* Requires 10 hours of observation and fieldwork
** Requires 30 hours of observation and field experience in a school setting
*** Requires 15 hours of observation and field experience in a school setting

Continued on next page.
This plan benefits students interested in transferring to a four-year college or university to obtain an Illinois State Board of Education teaching license.

A passing score on the Illinois Test of Academic Proficiency (formerly the Illinois Test of Basic Skills) or a current ACT plus Writing test with a score of 22 or higher is required for admission to a four-year college or university school of education. One of these tests should be taken by recent high school graduates after completing 15-30 credit hours of college work. Older students should take the test after completing 40-45 college credit hours. It is recommended that you take ENG 121 and MTH 121 before taking either of these tests.

For students wishing to obtain a teaching license in the State of Illinois, a grade of C or above is compulsory for all coursework required for the teaching license. This includes courses in the major, all education courses, and required general electives. This is effective for those applying for teacher licensure as of 2012, Illinois State Board of Education.

Note: This plan includes recommendations for students who plan to major in this subject at a four-year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S.). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

### EARLY CHILDHOOD EDUCATION

**Degree: Associate in Applied Science, Early Childhood Education**

**Plan 25EA**

The Associate of Applied Science Degree program in Early Childhood Education prepares students for careers working with young children. Graduates of the program are DCFS-qualified to be lead teachers and directors in early childhood centers and school-age programs. Public school Pre-K programs may employ A.A.S. degree graduates as assistant teachers. Many of the required courses may transfer to four-year institutions with related programs. ECE 121, ECE 124, ECE 214, ECE 220, ECE 248, ECE 250, ECE 252 and EDU 242 require daytime field observation or classroom experience hours, a current Illinois State Police criminal background check and/or current medical documentation. Check individual course descriptions and catalog information or contact the Early Childhood Education Department Chair for further guidance. After completion of this A.A.S. degree program, interested students will need to complete applications for the Illinois Gateways to Opportunity Level 4 Infant/Toddler and ECE entitled credentials must choose ECE 250, ECE 251, ECE 252, and ECE 253 as electives. In this situation, the student will complete this degree with 62 credit hours.

To complete an A.A.S., students are strongly encouraged to meet with the Early Childhood Education department chair to identify coursework that will meet degree requirements.

#### FIRST SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 120</td>
<td>Technical Composition I or II</td>
<td>15</td>
</tr>
<tr>
<td>ENG 121</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ECE 117</td>
<td>Creative Activities for Infants and Toddlers</td>
<td>3</td>
</tr>
<tr>
<td>ECE 121+</td>
<td>Introduction to Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>ECE 124+</td>
<td>Child Development for Educators</td>
<td>3</td>
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#### SECOND SEMESTER

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CMM 121</td>
<td>Fundamentals of Speech</td>
<td>3</td>
</tr>
<tr>
<td>ECE 116</td>
<td>Creative Activities</td>
<td>3</td>
</tr>
<tr>
<td>ECE 141</td>
<td>Health, Safety, and Nutrition</td>
<td>3</td>
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</table>

#### THIRD SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 214+</td>
<td>Group Care of Infants and Toddlers</td>
<td>3</td>
</tr>
<tr>
<td>ECE 223</td>
<td>Child, Family, and Community</td>
<td>3</td>
</tr>
<tr>
<td>ECE 229</td>
<td>Language Development and Early Literacy</td>
<td>3</td>
</tr>
<tr>
<td>ECE 241</td>
<td>Guidance and Social Development</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ECE Elective</td>
<td>3</td>
</tr>
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</table>

#### FOURTH SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 220+</td>
<td>Observation and Assessment</td>
<td>3</td>
</tr>
<tr>
<td>ECE 233</td>
<td>Young Children with Special Needs</td>
<td>3</td>
</tr>
<tr>
<td>ECE 242</td>
<td>Math Activities for Young Children</td>
<td>3</td>
</tr>
<tr>
<td>ECE 248</td>
<td>Assessment Seminar</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ECE Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

#### ELECTIVES

Select 6-8 hours from the following. Students wishing to apply for the Illinois Gateways to Opportunity Level 4 Infant-Toddler and ECE entitled credentials must choose ECE 250, ECE 251, ECE 252, and ECE 253 as electives. In this situation, the student will complete this degree with 62 credit hours.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ECE 132</td>
<td>Professional Ethics in ECE</td>
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<tr>
<td>ECE 133</td>
<td>Family Child Care Management</td>
<td>3</td>
</tr>
<tr>
<td>ECE 215</td>
<td>Music Activities for Young Children</td>
<td>3</td>
</tr>
<tr>
<td>ECE 231</td>
<td>School-Age Programming</td>
<td>3</td>
</tr>
<tr>
<td>ECE 250*</td>
<td>ECE Practicum I- Infants and Toddlers and</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Curriculum Development I</td>
<td>4</td>
</tr>
<tr>
<td>ECE 251*</td>
<td>ECE Practicum II- Preschool and</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Curriculum Development II</td>
<td></td>
</tr>
<tr>
<td>ECE 270</td>
<td>Administration of ECE Programs</td>
<td>3</td>
</tr>
<tr>
<td>ECE 299</td>
<td>Special Topics in Early Childhood Education</td>
<td>1-3</td>
</tr>
<tr>
<td>EDU 121</td>
<td>Introduction to Teaching</td>
<td>3</td>
</tr>
<tr>
<td>EDU 222</td>
<td>The Exceptional Child</td>
<td>3</td>
</tr>
<tr>
<td>EDU 223</td>
<td>Technology in the Classroom</td>
<td>3</td>
</tr>
<tr>
<td>EDU 224</td>
<td>Diversity in Schools and Society</td>
<td>3</td>
</tr>
<tr>
<td>EDU 225</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>EDU 242</td>
<td>Observation/Clinical Experience</td>
<td>1</td>
</tr>
<tr>
<td>EDU 299</td>
<td>Special Topics in Education</td>
<td>1-3</td>
</tr>
<tr>
<td>ENG 261</td>
<td>Methods of Teaching ESL</td>
<td>3</td>
</tr>
<tr>
<td>ENG 262</td>
<td>Theories of teaching ESL and Bilingual Education</td>
<td>3</td>
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</tbody>
</table>

#### Total A.A.S. Degree

60-62
For students wishing to obtain a teaching credential in the State of Illinois, a grade of C or above is compulsory for all coursework required for the teaching credential. This includes courses in the major, all education courses, and required general electives. This is effective for those applying for teacher certification as of 2012 (Illinois State Board of Education).

*A.A.S. in ECE students who desire to earn the Illinois Gateways to Opportunity ECE Credential—Level 4 and the Illinois Gateways to Opportunity Infant/Toddler Credential—Level 4 must complete these four courses as electives or be able to document relevant work experience. Upon successful completion of this program, students may complete an application with INCCRRA/Gateways to Opportunity to receive these credentials. All courses required for a Gateways Credential must be earned with a grade of C or Better. See Department Chair for more details.

ECE 250 and ECE 252 each require 150 hours of classroom work in a NAEYC accredited early childhood center. These courses also require all course prerequisites (see course descriptions in catalog), as well as a current criminal clearance and DCFS mandated medical requirements. Completion of two practicums and relevant curriculum courses will require an additional semester to complete.

ECE 251 and ECE 253 must be taken concurrently (in an online format) with the coordinating practicum course.

Illinois Gateways to Opportunity awards entitlement status to higher education institutions that align their coursework with credential requirements. Students who complete the required courses may meet Gateways credential component requirements, and have up to two years to apply to receive their credential(s). Visit www.illgateways.com/en/gateways-to-opportunity-credentials.

+ ECE 121, ECE 124, ECE 214, ECE 220, ECE 248, ECE 250, ECE 252, EDU 124 and EDU 242 require daytime field observation and/or experience hours, current Illinois State Police criminal background check, and/or current medical documentation. Check individual catalog descriptions for more information or contact the ECE Department Chair.

### ADMINISTRATION AND LEADERSHIP IN EARLY CHILDHOOD EDUCATION

**Certificate** Plan 25EF

This certificate is intended for students who already hold degrees or who have taken extensive coursework in other academic fields and have several years experience in early childhood classroom teaching. The program provides the additional study that is often required for a career change, to meet requirements for Illinois Department of Children and Family Services (IDCFS) Director Qualifications, National Association for the Education of Young Children (NAEYC) program accreditation criteria, and/or to build skills in early childhood program administration and leadership.

**FIRST SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 121</td>
<td>3</td>
</tr>
<tr>
<td>ECE 124</td>
<td>3</td>
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<tr>
<td>ECE 141</td>
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<tr>
<td>HCM 113</td>
<td>1</td>
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<tr>
<td>BUS 115</td>
<td>3</td>
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**SECOND SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
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<td>BUS 277</td>
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<tr>
<td>EDU 223</td>
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<td>CMM 127</td>
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**SUMMER SESSION**

<table>
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<td>ECE 132</td>
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**THIRD SEMESTER**

<table>
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<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>ECE 270</td>
<td>3</td>
</tr>
<tr>
<td>CMM 128</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours for Certificate**

* See Department Chair for details and application for Illinois Gateways Level 1 Director Credential.

Gainful Employment Information: www.clcillinois.edu/geece

### INFANT/TODDLER LEVEL II - ILLINOIS GATEWAYS TO OPPORTUNITY CREDENTIAL

**Certificate** Plan 25EG

Illinois Gateways to Opportunity Infant/Toddler Credentials Levels 2–4 are for child care professionals working with children birth to age 8 who have specific levels of training, education and experience. An Entitled Institution is a college or university who has aligned their coursework with credential requirements. The College of Lake County’s Early Childhood Education Department has Entitled Institution status to award Levels II through IV credentials to students who have completed the required courses for each type and level of credential. The following courses are required to obtain and be awarded the Level II Infant/Toddler Illinois Gateways to Opportunity Credential. All courses required for a Gateways Credential must be earned with a grade of C or Better.

**NOTE:** It is not necessary to earn the Level I Gateways Credential before pursuing the Levels II and III Credentials and Certificates, BUT YOU MUST EARN THE LEVEL II ECE CERTIFICATE/CREDOENTIAL (PLAN 25EI) BEFORE YOU EARN THE LEVEL II INFANT/TODDLER CERTIFICATE (PLAN 25EG). (There is a two-course difference.)

**FIRST SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ECE 117</td>
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<tr>
<td>ECE 121</td>
<td>3</td>
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<tr>
<td>ECE 124</td>
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**SECOND SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 141</td>
<td>3</td>
</tr>
<tr>
<td>ECE 214</td>
<td>3</td>
</tr>
<tr>
<td>ECE 223</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours for Certificate**

Gainful Employment Information: www.clcillinois.edu/geece
## DEGREES/CERTIFICATES

### INFANT/TODDLER LEVEL III - ILLINOIS GATEWAYS TO OPPORTUNITY CREDENTIAL (Certificate) Plan 25EH

Illinois Gateways to Opportunity Infant/Toddler Credentials Levels 2–4 are for child care professionals working with children birth to age 8 who have specific levels of training, education and experience. An Entitled Institution is a college or university who has aligned their coursework with credential requirements. The College of Lake County’s Early Childhood Education Department has Entitled Institution status to award Levels II through IV credentials to students who have completed the required courses for each type and level of credential. The following courses are required to obtain and be awarded the Level III Infant/Toddler Illinois Gateways to Opportunity Credential. All courses required for a Gateways Credential must be earned with a grade of C or Better.

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 179</td>
<td>Creative Activities for Infants and Toddlers</td>
</tr>
<tr>
<td>ECE 121</td>
<td>Introduction to Early Childhood Education</td>
</tr>
<tr>
<td>ECE 124</td>
<td>Child Development for Educators</td>
</tr>
<tr>
<td>ENG 120</td>
<td>Technical Composition I or English Composition I</td>
</tr>
<tr>
<td>ECE 141</td>
<td>Health, Safety and Nutrition</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND SEMESTER</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 214</td>
<td>Group Care of Infants and Toddlers</td>
</tr>
<tr>
<td>ECE 220</td>
<td>Observation and Assessment</td>
</tr>
<tr>
<td>ECE 223</td>
<td>Child, Family, and Community Math Activities for Young Children</td>
</tr>
<tr>
<td>CMM 121</td>
<td>Fundamentals of Speech or English Composition I</td>
</tr>
<tr>
<td>PSY 121</td>
<td>Introduction to Psychology</td>
</tr>
</tbody>
</table>

Total Hours for Certificate: 30

Gainful Employment Information: www.clcillinois.edu/geece

### EARLY CHILDHOOD - LEVEL II - GATEWAYS TO OPPORTUNITY CREDENTIAL (Certificate) Plan 25EI

Illinois Gateways to Opportunity Early Childhood Credentials Levels 2–4 are for child care professionals working with children birth to age 8 who have specific levels of training, education and experience. An Entitled Institution is a college or university who has aligned their coursework with credential requirements. The College of Lake County’s Early Childhood Education Department has Entitled Institution status to award Levels II through IV credentials to students who have completed the required courses for each type and level of credential. The following courses are required to obtain and be awarded the Level II Early Childhood Illinois Gateways to Opportunity Credential. All courses required for a Gateways Credential must be earned with a grade of C or Better. **Note:** It is not necessary to earn the Level I Gateways Credential before pursuing the Levels II and III Certificates and Certificates, BUT YOU MUST EARN THE LEVEL II ECE CERTIFICATE/ CREDENTIAL (PLAN 25EI) BEFORE YOU EARN THE LEVEL II INFANT/TODDLER CERTIFICATE (PLAN 25EG). (There is a two-course difference.)

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 121</td>
<td>Introduction to Early Childhood Education</td>
</tr>
<tr>
<td>ECE 124</td>
<td>Child Development for Educators</td>
</tr>
<tr>
<td>ECE 141</td>
<td>Health, Safety and Nutrition</td>
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<table>
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<th>SECOND SEMESTER</th>
<th>9</th>
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</thead>
<tbody>
<tr>
<td>ECE 210</td>
<td>Observation and Assessment</td>
</tr>
<tr>
<td>ECE 223</td>
<td>Child, Family, and Community Math Activities for Young Children</td>
</tr>
<tr>
<td>ECE 229</td>
<td>Language and Development and Early Literacy</td>
</tr>
</tbody>
</table>

Total Hours for Certificate: 18

Gainful Employment Information: www.clcillinois.edu/geece

For more information on recommended courses or program specific advising, contact Diane Wolter at (847) 543-2570 or the Business and Social Sciences Division at (847) 543-2047.

### EARLY CHILDHOOD - LEVEL III - GATEWAYS TO OPPORTUNITY CREDENTIAL (Certificate) Plan 25EJ

Illinois Gateways to Opportunity Early Childhood Credentials Levels 2–4 are for child care professionals working with children birth to age 8 who have specific levels of training, education and experience. An Entitled Institution is a college or university who has aligned their coursework with credential requirements. The College of Lake County’s Early Childhood Education Department has Entitled Institution status to award Levels II through IV credentials to students who have completed the required courses for each type and level of credential. The following courses are required to obtain and be awarded the Level III Early Childhood Illinois Gateways to Opportunity Credential. All courses required for a Gateways Credential must be earned with a grade of C or Better.

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 121</td>
<td>Introduction to Early Childhood Education</td>
</tr>
<tr>
<td>ECE 124</td>
<td>Child Development for Educators</td>
</tr>
<tr>
<td>ECE 141</td>
<td>Health, Safety and Nutrition</td>
</tr>
<tr>
<td>CMM 121</td>
<td>Fundamentals of Speech or English Composition I</td>
</tr>
<tr>
<td>PSY 121</td>
<td>Introduction to Psychology</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND SEMESTER</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 210</td>
<td>Observation and Assessment</td>
</tr>
<tr>
<td>ECE 223</td>
<td>Child, Family, and Community Math Activities for Young Children</td>
</tr>
<tr>
<td>ECE 242</td>
<td>Language and Development and Early Literacy</td>
</tr>
</tbody>
</table>

Total Hours for Certificate: 30

Gainful Employment Information: www.clcillinois.edu/geece

For more information on recommended courses or program specific advising, contact Diane Wolter at (847) 543-2570 or the Business and Social Sciences Division at (847) 543-2047.
EDUCATION - ELEMENTARY
Business and Social Sciences Division
Room T302, (847) 543-2047
www.clcillinois.edu/programs/edu

Degree: Associate in Arts
Plan 13AB

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. It is also important to build this plan along with the transfer guide from the four-year institution. To complete any transfer degree, students should select from the general education requirements outlined on page 37.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements.

FIRST SEMESTER

ENG 121  English Composition I  3
MTH 121  Math for Elementary Teaching I (elective)  3
PSY 121  Introduction to Psychology  3
MUS 124  Music Appreciation or  3
MUS 224  Music Literature  3
EDU 121  Introduction to Teaching (elective)  3

SECOND SEMESTER

ENG 122  English Composition II  3
BIO 120  Environmental Biology or  4
BIO 141  Concepts in Biology  4
MTH 221  Math for Elementary Teaching II  3
HST 221  United States History to 1876 or  3
HST 222  United States History 1876 to present  3
EDU 124  Child Development for Educators (elective)  3

THIRD SEMESTER

CMM 121  Fundamentals of Speech  3
PHY 120  Practical Aspects of Physics  4
ENG 228  World Literature or  3
ENG 229  American Literature: 20th Century to Present or  3
ENG 241  Introduction to Poetry or  3
ENG 243  Introduction to Fiction or  3
ENG 246  Latin American Writers or  3
ENG 247  International Women Writers or  3
ENG 249  Children’s Literature  3
EDU 224  Diversity in Schools (Elective)  3

FOURTH SEMESTER

PSC 121  American National Politics  3
ART 240+  History of Art I or  3
ART 241+  History of Art II or  3
ART 260  History of Photography  3
EDU 222  The Exceptional Child (Elective)  3
EDU 224  Diversity in Schools and Society  3
EDU 225  Educational Psychology  3
EDU 242**  Observation/Clinical Experience in Education  3
EDU 299  Special Topics in Education  1-3

CONCENTRATION/ELECTIVES

EDU 121  Introduction to Teaching  3
EDU 124  Child Development for Educators  3
EDU 222  The Exceptional Child  3
EDU 223  Technology in the Classroom  3
EDU 224+  Diversity in Schools and Society  3
EDU 225  Educational Psychology  3
GXS 121+  Introduction to Gender Studies  3
EDU 242**  Observation/Clinical Experience in Education  3
MTH 122  College Algebra  4
MTH 142  General Education Statistics  3
EDU 299  Special Topics in Education  1-3

A B.A. degree at many four-year colleges may also require the following courses or coursework from the following areas of concentration:

ESC 120  Earth Science  4
ENG 246  Latin American Writers  3
HST 221  United States History to 1876 or  3
HST 222  United States History 1876 to present  3
HWP 240  Contemporary Health Issues  3
PED 220  Physical Education in the Elementary School  3

Continued on next page.
Areas of Concentration: Art, English, Foreign Language, Language Arts, Social Studies, Math, Music, or Science. Additional coursework from these areas should be selected in consultation with an EDU advisor.

* Choose from these courses to fulfill the I/M requirement. EDU 224 is strongly recommended for this program of study.

** Requires 30 hours of observation and field study in a school setting.

In addition to MTH 121 and 221, some transfer school requirements generally include MTH 122 and MTH 142 or MTH 222, and may require completion of these courses prior to transfer. Therefore it is highly recommended that students consult an advisor at their prospective transfer school in addition to meeting with a CLC advisor or Student Development Counselor as early as possible.

This plan benefits students interested in transferring to a four-year college or university to obtain an Illinois State Board of Education license. This plan may also benefit individuals who are interested in education and schooling but not in the context of the classroom. Regardless, due to recent legislative changes, each four-year institution has made changes in its program regarding transfer classes. This recommended plan is meant to be a guide and is contingent on the education program teacher candidates wish to obtain their bachelor’s/ license through after transfer.

Teacher candidates who wish to teach in middle or high school should meet with both the CLC advisors and faculty in the education department to better formulate a specific academic plan. In the meantime, those teacher candidates should select electives from a content area in which they want to teach. Concentration areas include Art, English, Foreign Language, Language Arts, Social Studies, Math, Music, Science and Theatre. Again, it is imperative that teacher candidates work concurrently with CLC advisors and education faculty early in their program of study to ensure successful transfer to a four-year institution.

For teacher candidates in all grade levels and content areas wishing to earn a teaching license in the State of Illinois, a grade of a C or above is compulsory for all coursework required for teaching credential. This includes courses in the major, all education courses, and required general electives (2012, Illinois State Board of Education).

Note: This plan includes recommendations for students who plan to major in this subject at a four year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses, education policy changes or program specific advising, contact Michelle Proctor at (847) 543-2942.
EDUCATION - SECONDARY
Business and Social Sciences Division
Room T302, (847) 543-2047
www.clcillinois.edu/programs/sed

Degree: Associate in Arts
Plan 13AB

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. It is also important to build this plan along with the transfer guide from the four-year institution. To complete any transfer degree, students should select from the general education requirements outlined on page 37.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements.

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>15-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 121</td>
<td>English Composition I</td>
</tr>
<tr>
<td>MTH 142</td>
<td>General Education Statistics or MTH 222</td>
</tr>
<tr>
<td>PSY 121</td>
<td>Introduction to Psychology</td>
</tr>
<tr>
<td>ART 121</td>
<td>Introduction to Art or MUS 124</td>
</tr>
<tr>
<td>EDU 121</td>
<td>Music Appreciation</td>
</tr>
<tr>
<td></td>
<td>Introduction to Teaching (elective)</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>SECOND SEMESTER</th>
<th>16</th>
</tr>
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<tbody>
<tr>
<td>ENG 122</td>
<td>English Composition II</td>
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<tr>
<td>EDU 124</td>
<td>Child Development for Educators (elective)</td>
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<tr>
<td>BIO 123</td>
<td>Principles of Biology</td>
</tr>
<tr>
<td></td>
<td>Humanities Elective</td>
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<td>Concentration/Elective</td>
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<table>
<thead>
<tr>
<th>THIRD SEMESTER</th>
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<tbody>
<tr>
<td>CMM 121</td>
<td>Fundamentals of Speech</td>
</tr>
<tr>
<td>ESC 123</td>
<td>Introduction to Meteorology or GEG 121</td>
</tr>
<tr>
<td>HST 221</td>
<td>United States History to 1876 or HST 222</td>
</tr>
<tr>
<td></td>
<td>United States History 1876 to Present (Note: Some transfer schools require both HST 221 and HST 222. Check with your transfer school)</td>
</tr>
<tr>
<td></td>
<td>Concentration/ Elective</td>
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<tr>
<th>FOURTH SEMESTER</th>
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<tbody>
<tr>
<td>PSC 121</td>
<td>American National Politics</td>
</tr>
<tr>
<td></td>
<td>Humanities or Fine Arts (with I/M designation*, if needed)</td>
</tr>
<tr>
<td>EDU 224</td>
<td>Diversity in Schools (Elective)</td>
</tr>
<tr>
<td></td>
<td>Concentration/Elective</td>
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</table>

CONCENTRATION/ELECTIVES
A secondary teaching credential requires a major at a 4 year college or university. Examples include but are not limited to: English, Math, Biology, Chemistry, Physics, History, a Foreign Language, and Business.) Students planning to transfer should verify 4 year college requirements as they differ from college to college. Students interested in Music Education should consult the respective department at CLC.

<table>
<thead>
<tr>
<th>RECOMMENDED EDUCATION COURSES</th>
<th>12</th>
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<tbody>
<tr>
<td>EDU 121</td>
<td>Introduction to Teaching</td>
</tr>
<tr>
<td>EDU 124</td>
<td>Child Development for Educators</td>
</tr>
<tr>
<td>EDU 222</td>
<td>Exceptional Children</td>
</tr>
<tr>
<td>EDU 223</td>
<td>Technology In The Classroom</td>
</tr>
<tr>
<td>EDU 224*</td>
<td>Diversity in the Schools I/M</td>
</tr>
<tr>
<td>EDU 225</td>
<td>Educational Psychology</td>
</tr>
<tr>
<td>EDU 242</td>
<td>Observation/Clinical Experience</td>
</tr>
<tr>
<td>EDU 299</td>
<td>Special Topics in Education</td>
</tr>
</tbody>
</table>

* EDU 224 is recommended for the Secondary Education Concentration/Elective to satisfy the I/M requirement.
** Many four year colleges require a foreign language. To fulfill the humanities requirement, a student must take a foreign language with a course number of 222. (This is an intermediate level foreign language class requiring several semesters of beginning level foreign language courses before the intermediate course can be taken.)

Any additional electives should be taken in a particular subject area that meets requirements for a secondary teaching credential and will transfer to a four year college of your choice. Consult the four year institution requirements for different majors that lead to a credential in secondary education.

For all those students wishing to obtain a teaching credential in the state of Illinois, a grade of C or above is compulsory for all coursework that is required for the teaching credential. This would include courses in your major, all education courses, and required general electives. (Effective 2012, Illinois State Board of Education)

**Note:** This plan includes recommendations for students who plan to major in this subject at a four year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses or program specific advising, contact Michelle Proctor at (847) 543-2942 or the Business and Social Sciences Division at (847) 543-2047.
EDUCATION - SPECIAL EDUCATION
Business and Social Sciences Division
Room T302, (847) 543-2047
www.clcillinois.edu/programs/spe

Degree: Associate in Arts
Plan 13AB

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. It is also important to build this plan along with the transfer guide from the four-year institution. To complete any transfer degree, students should select from the general education requirements outlined on page 37.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements.

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>15</th>
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<tbody>
<tr>
<td>ENG 121</td>
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<tr>
<td>MTH 121</td>
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<td></td>
</tr>
<tr>
<td>PSY 121</td>
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<td>MUS 124</td>
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<td>MUS 224</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EDU 221</td>
<td>3</td>
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<tr>
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<td>ENG 122</td>
<td>3</td>
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</tr>
<tr>
<td>BIO 120</td>
<td>3</td>
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</tr>
<tr>
<td>BIO 141</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MTH 221</td>
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<td>EDU 124</td>
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<tbody>
<tr>
<td>CMM 121</td>
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</tr>
<tr>
<td>PHY 120</td>
<td>4</td>
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<tr>
<td>HUM 128+</td>
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<tr>
<td>PHI 123+</td>
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<td>PHI 125+</td>
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</tr>
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<td>EDU 222</td>
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<th>FOURTH SEMESTER</th>
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<tbody>
<tr>
<td>PSC 121</td>
<td>3</td>
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<tr>
<td>ART 240+</td>
<td>3</td>
</tr>
<tr>
<td>ART 241+</td>
<td>3</td>
</tr>
<tr>
<td>ART 260</td>
<td>3</td>
</tr>
<tr>
<td>EDU 224</td>
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<thead>
<tr>
<th>CONCENTRATION/ELECTIVES</th>
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<tbody>
<tr>
<td>EDU 121</td>
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<td>EDU 124</td>
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<td>EDU 222</td>
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<td>EDU 223</td>
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<td>EDU 224</td>
<td>3</td>
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<td>EDU 225</td>
<td>3</td>
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<tr>
<td>EDU 226</td>
<td>3</td>
</tr>
<tr>
<td>EDU 242*</td>
<td>3</td>
</tr>
</tbody>
</table>

+ Choose from these courses to fulfill the I/M requirement. EDU 224 is strongly recommended for this program of study.
++ MTH 121 is a prerequisite for MTH 221 and may be used as an elective requirement.
* Requires 30 hours of observation and field study in a school setting.

Check with your four-year institution for specific transfer requirement.

For students wishing to obtain a teaching credential in the State of Illinois, a grade of C or above is compulsory for all coursework required for the teaching credential. This includes courses in the major, all education courses, and required general electives. This is effective for those applying for teacher certification as of 2012, Illinois State Board of Education.

Note: This plan includes recommendations for students who plan to major in this subject at a four-year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses or program specific advising, contact Michelle Proctor at (847) 543-2942 or the Business and Social Sciences Division at (847) 543-2047.
**GENDER AND SEXUALITY STUDIES**  
Business and Social Sciences Division  
Room T302, (847) 543-2047  
www.clcillinois.edu/programs/gxs

**Degree:** Associate in Arts  
Plan 13AB

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

### FIRST SEMESTER  
**15**
- ENG 121 English Composition I  
- MTH 141 Quantitative Literacy or MTH 142 General Education Statistics  
- GXS 121 Introduction to Gender Studies  
- PHI 125 Introduction to Ethics  
- SOC 121 Introduction to Sociology

### SECOND SEMESTER  
**15-16**
- ENG 122 English Composition II  
- BIO 120 Environmental Biology or BIO 141 Concepts in Biology  
- PSY 121 Introduction to Psychology  
- Concentration/Elective  
- Concentration/Elective

### THIRD SEMESTER  
**15**
- CMM 121 Fundamentals of Speech  
- GXS 229 Women and the Arts  
- Concentration/Elective  
- Concentration/Elective

### FOURTH SEMESTER  
**15**
- ENG 129 Women in Literature  
- Physical Science Elective  
- Concentration/Elective  
- Concentration/Elective  
- Concentration/Elective

### CONCENTRATION/ELECTIVES  
- ANT 221 Cultural Anthropology  
- ANT 228 Cross Cultural Relationships  
- CMM 125 Communication and Gender  
- CMM 127 Intercultural Communication  
- ENG 247 International Women Writers  
- EWE 121# Introduction to Volunteerism  
- GXS 221 Theories of Feminism  
- GXS 299 Special Topics in Gender and Sex  
- HST 129 History of Women  
- PHI 128 Introduction to Social and Political Philosophy  
- PHI 229 Philosophy of Gender  
- PSY 229 Psychology of Gender  
- SOC 121 Introduction to Sociology  
- SOC 222 Social Problems  
- SOC 224 Sociology of the Family  
- SOC 225 Class, Race, and Gender  
- SWK 121 Introduction to Social Work  
- SWK 228 Human Sexuality  
  (cross-listed as PSY 228)

# Students will volunteer in the CLC Women’s Center.

**Math requirements vary at four-year institutions.**

Note: This plan includes recommendations for students who plan to major in this subject at a four-year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses or program specific advising, contact the following faculty member or the Business and Social Sciences Division at (847) 543-2047.

Suzanne Pryga | Fred Hutchinson  
Sonia Olivia | John Tenuto
HISTORY
Business and Social Sciences Division
Room T302, (847) 543-2047
www.cclillinois.edu/programs/hst

Degree: Associate in Arts
Plan 13AB

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37. All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

FIRST SEMESTER
15
ENG 121 English Composition I 3
MTH 140 Contemporary Mathematics or
MTH 141 Quantitative Literacy or
MTH 142 General Education Statistics 3
ANT 221 Cultural Anthropology
Humanities or Fine Arts Elective 3
Concentration/Elective 3

SECOND SEMESTER
16
ENG 122 English Composition II 3
BIO 120 Environmental Biology or
BIO 141 Concepts in Biology 4
PHI 121 Introduction to Philosophy
Concentration/Elective 3
Concentration/Elective 3

THIRD SEMESTER
15
CMM 121 Fundamentals of Speech 3
PSC 121 American National Politics
Humanities or Fine Arts Elective 3
Concentration/Elective 3
Concentration/Elective 3

FOURTH SEMESTER
15
GEG 121 Physical Geography 3
ECO 221 Principles of
Macroeconomics 3
Concentration/Elective 3
Concentration/Elective 3
Concentration/Elective 3

CONCENTRATION/ELECTIVES
HST 121 History of Western Civilization to 1500 3
HST 122 History of Western Civilization 1500 to Present 3
HST 126 History/Non-Western World Since 1500 3
HST 127 History of Chinese Culture and Society 3
HST 128 Modern History of the Middle East 3
HST 141 World History to 1500 3
HST 142 World History from 1500 3
HST 221 United States History to 1876 or
HST 222 United States History 1876 to present 3
HST 245 History of Latin America to 1825 3
HST 246 History of Latin America from 1825 3
Additional Electives as Needed

Note: This plan includes recommendations for students who plan to major in this subject at a four year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses or program specific advising, contact the following faculty members or the Business and Social Sciences Division at (847) 543-2047.

Josephine Faulk | Gregory Gordon
David Groeninger | Phyllis Soybel
HUMAN SERVICES PROGRAM  
Business and Social Sciences Division  
Room T302, (847) 543-2047  
www.clcillinois.edu/programs/hus

This program prepares students for entry and middle-level positions in agencies and programs specialized in helping people. This includes organizations with programs for children, adolescents, and adults provided through hospitals, nursing homes, institutions for people with developmental disabilities, community human services programs, as well as treatment programs for addiction and substance use disorders. The degree-seeking student completes general education and Human Services core courses, plus one of the five options. All students are encouraged to consult with department faculty. Human Services courses may transfer to four-year institutions with related programs.

HUMAN SERVICES: CHILDREN AND ADOLESCENTS

Degree: Associate in Applied Science, Human Services: Children and Adolescents Plan 25HB

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

FIRST SEMESTER 

15  
ENG 121 English Composition I 3  
MTH 140 Contemporary Mathematics or Higher Math Elective or Science Elective 3  
PSY 121 Introduction to Psychology 3  
SWK 121 Introduction to Social Work 3  
HUS 140 Drugs and Society 3

SECOND SEMESTER 

14  
CMM 111 Communication Skills or Fundamentals of Speech or Interviewing Practices 3  
CMM 121 Child Growth and Development 3  
HUS 123 Introduction to Group Dynamics 3  
HUS 128 Introduction to Counseling Skills 3  
HUS 154 Ethics in Human Services Practicum 1  
HUS 274 Human Services Practicum Orientation 1

THIRD SEMESTER 

16  
HUS 121 Health and Nutrition 3  
PSY 226 Adolescent Development 3  
HUS 170 Human Services Practicum I 4  
HUS 234 Child Maltreatment Concentration/Elective # 3

FOURTH SEMESTER 

16  
HUS 171 Human Services Practicum II 4  
ECE 223* Child, Family, and Community or EDU 222* The Exceptional Child 3  
SOC 224 Sociology of the Family 3  
HUS 128 Humanities or Fine Arts Elective Concentration/Elective # 3

Total Hours for A.A.S. Degree 61

* PSY 222 may be used as a prerequisite. See ECE department chair for consent.

# From the list of concentration/electives courses below, select 6 hours of courses to take:

CRJ 121 Introduction to Criminal Justice 3  
CRJ 224 Institutional Corrections 3  
CRJ 227 Community-Based Corrections 3  
CRJ 229 Juvenile Delinquency 3  
CRJ 230 Principles of Courtroom Testimony 3  
ECE 141 Health, Safety and Nutrition 3  
ECE 214 Group Care of Infants and Toddlers 3  
EDU 299 Special Topics in Education 1-3  
HUS 114 Human Services Supervision 3  
HUS 116 Principles of Foster Care 1  
HUS 132 Trauma, Violence, and Prevention 3  
HUS 134 Gender-Based Violence 4  
HUS 152 Process Addictions/Impulse Disorders 2  
HUS 153 Diverse and Multicultural Populations 2  
HUS 155 Pharmacology for Human Services 2  
HUS 210 Principles of Residential Care 3  
HUS 253 Advanced Addictions Counseling Skills 3  
HUS 299 Special Topics in Human Services 1-3  
PSY 223 Abnormal Psychology or Being Different: The Sociology of Deviant Behavior 3  
SOC 223 Human Sexuality 3
HUMAN SERVICES: ADULT SERVICES

Degree: Associate in Applied Science, Human Services: Adult Services Plan 25HC

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

FIRST SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ENG 121</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MTH 141</td>
<td>Quantitative Literacy or Math Elective (MTH 140 or higher) or Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>PSY 121</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SWK 121+</td>
<td>Introduction to Social Work</td>
<td>3</td>
</tr>
<tr>
<td>HUS 140</td>
<td>Drugs and Society</td>
<td>3</td>
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SECOND SEMESTER

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tr>
<td>CMM 111+</td>
<td>Communication Skills or Traditions</td>
<td>3</td>
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<tr>
<td>CMM 121+</td>
<td>Fundamentals of Speech orFoto in Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>HUS 123</td>
<td>Introduction to Group Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>HUS 128</td>
<td>Introduction to Counseling Skills</td>
<td>3</td>
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<tr>
<td>HUS 274</td>
<td>Human Services Practicum Orientation</td>
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<td>SOC 121</td>
<td>Introduction to Sociology</td>
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<tr>
<td>HUS 154</td>
<td>Ethics in Human Services</td>
<td>1</td>
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<tr>
<td>HUS 231</td>
<td>Humanities or Fine Arts Elective</td>
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THIRD SEMESTER

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<th>Course Title</th>
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<tr>
<td>HUS 121</td>
<td>Health and Nutrition</td>
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<td>Select 2 of the following 3 classes:</td>
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<td>6</td>
</tr>
<tr>
<td>HUS 231</td>
<td>Adult Development and Aging</td>
<td>3</td>
</tr>
<tr>
<td>PSY 220</td>
<td>Lifespan Development</td>
<td>3</td>
</tr>
<tr>
<td>PSY 226</td>
<td>Adolescent Development</td>
<td>3</td>
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FOURTH SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>HUS 171</td>
<td>Human Services Practicum II</td>
<td>4</td>
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<tr>
<td>PSY 223</td>
<td>Abnormal Psychology or Child Maltreatment</td>
<td>3</td>
</tr>
<tr>
<td>SOC 223</td>
<td>Being Different: The Sociology of Deviant Behavior</td>
<td>3</td>
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<tr>
<td>SOC 224</td>
<td>Sociology of the Family</td>
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<tr>
<td></td>
<td>Concentration/Elective #</td>
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</tbody>
</table>

Total Hours for A.A.S. Degree 64

+ Completing coursework during the summer session(s) may enable students to complete the program earlier or reduce the course load during fall and spring semesters.

# From the list of concentration/electives courses below, select 10 hours of courses to take:

- CRJ 121: Introduction to Criminal Justice
- CRJ 124: Introduction to Corrections
- CRJ 224: Institution Corrections
- CRJ 227: Community-Based Corrections
- CRJ 230: Principles of Courtroom Testimony
- HUS 114: Human Services Supervision
- HUS 116: Principles of Foster Care
- HUS 132: Trauma, Violence, and Prevention
- HUS 134: Gender-based Violence
- HUS 152: Process Addictions
- HUS 153: Impulse Disorders
- HUS 154: Diverse and Multicultural Populations
- HUS 155: Ethics in Human Services
- HUS 157: Pharmacology for Human Services
- HUS 210: Communicable Diseases and Substance Abuse
- HUS 234: Principles of Residential Care
- HUS 299: Child Maltreatment
- PRS 111: Special Topics in Human Services
- PRS 112: Survey of Rehabilitation Skills
- SWK 228: Psychiatric Rehabilitation Skills
- HUS 234: Human Sexuality

HUMAN SERVICES: ADDICTION COUNSELING AND TREATMENT

Degree: Associate in Applied Science, Human Services: Addiction Counseling and Treatment Plan 25HD

CLC has achieved national accreditation by the National Addiction Studies Accreditation Commission (NASAC) and is commended for excellence in the preparation of the 21st Century Addictions Professional Workforce. The Human Services Addiction Counseling and Treatment Program (ACT) is accredited by the Illinois Certification Board (ICB, INC.) as both an Advanced and Preparatory Training Program.

Plan 25HD is an ICB(AODAPCA) accredited Advanced Addiction Training Program. Upon completion, students are qualified to take the CADC exam to become an Illinois Certified Alcohol/Drug Counselor. No additional work experience is required.

In order to take upper-level courses, students must apply for admittance in the program, which may include background checks, drug screens, and/or interviews. Upon application to the Addiction Counseling and Treatment (ACT) option, students should have no history of alcohol or other drug abuse, any addiction or other addictive disorders, or should be in recovery without recurrence and out of treatment or correctional supervision for at least 18 months.

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

FIRST SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
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<td>English Composition I</td>
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<td>PSY 121+</td>
<td>Introduction to Psychology</td>
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<tr>
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<td>Introduction to Group Dynamics</td>
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<td>HUS 128</td>
<td>Introduction to Counseling Skills</td>
<td>3</td>
</tr>
<tr>
<td>HUS 274</td>
<td>Human Services Practicum Orientation</td>
<td>1</td>
</tr>
<tr>
<td>SOC 121</td>
<td>Introduction to Sociology</td>
<td>3</td>
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<tr>
<td>HUS 154</td>
<td>Ethics in Human Services</td>
<td>1</td>
</tr>
<tr>
<td>HUS 170</td>
<td>Human Services Practicum I</td>
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</tr>
<tr>
<td>HUS 121</td>
<td>Health and Nutrition</td>
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<tr>
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<td>6</td>
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<tr>
<td>HUS 231</td>
<td>Adult Development and Aging</td>
<td>3</td>
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<td>Lifespan Development</td>
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</tr>
<tr>
<td>PSY 226</td>
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Total Hours for A.A.S. Degree 64
SECOND SEMESTER

<table>
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<tr>
<th>Course Code</th>
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<tr>
<td>CMM 111+</td>
<td>Communication Skills or Interviewing Practices</td>
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<td>CMM 121+</td>
<td>Fundamentals of Speech or Contemporary Mathematics</td>
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<td>CMM 128+</td>
<td>Higher Level Mathematics or Science Elective</td>
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<td>MTH 140</td>
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<tr>
<td>HUS 151</td>
<td>Addiction Counseling and Treatment I</td>
</tr>
<tr>
<td>HUS 154</td>
<td>Ethics in Human Services</td>
</tr>
<tr>
<td>HUS 155</td>
<td>Advanced Addiction Counseling Skills</td>
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<tr>
<td>SWK 121+</td>
<td>Introduction to Social Work</td>
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THIRD SEMESTER

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<th>Course Title</th>
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<tbody>
<tr>
<td>SOC 121+</td>
<td>Introduction to Sociology</td>
</tr>
<tr>
<td>HUS 152</td>
<td>Process Addictions and Impulse Disorders</td>
</tr>
<tr>
<td>HUS 153</td>
<td>Diverse and Multicultural Populations</td>
</tr>
<tr>
<td>HUS 251</td>
<td>Addiction Counseling and Treatment II</td>
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<tr>
<td>HUS 253</td>
<td>Practicum I</td>
</tr>
<tr>
<td>HUS 274</td>
<td>Practicum Orientation</td>
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FOURTH SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>HUS 121</td>
<td>Health and Nutrition or Fine Arts Elective</td>
</tr>
<tr>
<td>HUS 157</td>
<td>Communicable Diseases and Substance Abuse</td>
</tr>
<tr>
<td>HUS 275</td>
<td>Practicum II</td>
</tr>
<tr>
<td>HUS 231+</td>
<td>Adult Development and Aging</td>
</tr>
<tr>
<td>PSY 220+</td>
<td>Lifespan Development or Adolescence</td>
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<tr>
<td>PSY 226+</td>
<td>Adolescence</td>
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FIFTH SEMESTER

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<th>Course Title</th>
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<tbody>
<tr>
<td>HUS 276</td>
<td>Addiction Counseling Practicum II</td>
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<tr>
<td>SWK 228</td>
<td>Human Sexuality or \textit{or}</td>
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<tr>
<td>HUS 132</td>
<td>Trauma, Violence, and Prevention</td>
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<tr>
<td>HUS 299</td>
<td>Special Topics in Human Services</td>
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</table>

Total Hours for A.A.S. Degree: 68

+ Completing coursework during the summer session(s) may enable students to complete the program earlier or reduce the course load during fall and spring semesters.

This academic plan is designed for a full-time student. Students opting to attend part time should consult with the HUS Faculty directly for a revised academic plan.

ADDICTION COUNSELING AND TREATMENT (Certificate) Plan 25HG

CLC has achieved national accreditation by the National Addiction Studies Accreditation Commission (NASAC) and is commended for excellence in the preparation of the 21st Century Addictions Professional Workforce. The Human Services Addiction Counseling and Treatment Program (ACT) is accredited by the Illinois Certification Board (ICB/IAODAPCA) as both an Advanced and Preparatory Training Program.

Plan 25HG is both an Advanced and Preparatory Training Program.

Advanced Program: Upon completion of the program, students are qualified to take the CADC exam to become an Illinois Certified Alcohol/Drug Counselor. No additional work experience is required.

ICB Preparatory Program: Students will be waived from the 2nd practicum (HUS 276), however upon completion of the program, there is a work experience requirement in order to earn the CADC.

According to ICB/IAODAPCA regulations, students who wish to earn their CADC through the Advanced Program must possess a minimum of an Associate’s degree in Human Services or a Behavioral Science from an accredited institution of higher education. Students who do not meet this requirement should complete the A.A.S. in Addiction Counseling and Treatment, Plan 25HD, or complete this certificate as a Preparatory Program.

In order to be admitted to this option, students must first meet with department faculty. Up to 15 credit hours of prerequisite courses may be transferred from another institution with the permission of the Human Services department chair, upon submission and review of transcripts indicating successful completion. Students needing to meet these prerequisites may take them concurrently with the courses required for the certificate.

In order to take upper-level courses, students must apply for admittance in the program, which may include background checks, drug screens, and/or interviews. Upon application to the Addiction Counseling and Treatment (ACT) option, students should have no history of alcohol or other drug abuse, any addiction or other addictive disorders, or should be in recovery without recurrence and out of treatment or correctional supervision for at least 18 months.

REQUISITE COURSEWORK: 12

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>HUS 121</td>
<td>Health and Nutrition</td>
</tr>
<tr>
<td>HUS 123</td>
<td>Introduction to Group Dynamics</td>
</tr>
<tr>
<td>HUS 128</td>
<td>Introduction to Counseling Skills</td>
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<tr>
<td>HUS 140</td>
<td>Drugs and Society</td>
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FIRST SEMESTER: 10

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<td>Addiction Counseling and Treatment I</td>
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<tr>
<td>HUS 152</td>
<td>Process Addictions/Impulse Disorders</td>
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<tr>
<td>HUS 153</td>
<td>Diverse/Multicultural Populations</td>
</tr>
<tr>
<td>HUS 154</td>
<td>Ethics in Human Services</td>
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<td>HUS 155</td>
<td>Pharmacology for Human Services</td>
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SECOND SEMESTER: 8

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<td>Addiction Counseling and Treatment II</td>
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<td>HUS 253</td>
<td>Advanced Addiction Counseling Skills</td>
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<tr>
<td>HUS 274</td>
<td>Practicum Orientation</td>
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THIRD SEMESTER: 7

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<td>HUS 275</td>
<td>Addiction Counseling Practicum I</td>
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<tr>
<td>HUS/SWK</td>
<td>Course Electives</td>
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FOURTH SEMESTER: 6

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<tr>
<th>Course Code</th>
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<td>HUS 157</td>
<td>Communicable Disease/Substance Abuse</td>
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<tr>
<td>HUS 276</td>
<td>Practicum II</td>
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Total Hours for Certificate: 31

HUS/SWK COURSE ELECTIVE: 3

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<tr>
<th>Course Code</th>
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<tr>
<td>HUS 231</td>
<td>Adult Development and Aging</td>
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<tr>
<td>PSY 220</td>
<td>Lifespan Development</td>
</tr>
<tr>
<td>PSY 226</td>
<td>Adolescence Development</td>
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</table>

Gainful Employment Information: www.clcillinois.edu/gehus
HUMAN SERVICES: CORRECTIONAL COUNSELING

Degree: Associate in Applied Science, Human Services: Correctional Counseling Plan 25HK

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

FIRST SEMESTER

ENG 121 English Composition I 15
MTH 141 Quantitative Literacy or Math Elective (MTH 140 or higher) or Science Elective 3
PSY 121 Introduction to Psychology 3
HUS 121 Health and Nutrition 3
SWK 121 Introduction to Social Work 3

SECOND SEMESTER

CMM 111+ Communication Skills or Fundamentals of Speech or Interviewing Practices 16
CMM 121+ Introduction to Criminal Justice 3
CRJ 121 Introduction to Group Dynamics 3
HUS 123 Introduction to Counseling Skills 3
HUS 128 Drugs and Society 3
HUS 154 Ethics in Human Services (elective) 3

THIRD SEMESTER

SOC 121 Introduction to Sociology 16
CRJ 227 Community-Based Corrections 3
HUS 274 Human Services Practicum Orientation 3
HUS 231 Adult Development and Aging 1
PSY 226 Advanced Addiction Counseling Skills 3
HUS 253 Human Services Practicum Orientation 3

FOURTH SEMESTER

HUS 219 Human Services Internship 13
CRJ 214 Substance Abuse and Criminal Justice Concentration/Elective # 4

Total Hours for A.A.S. Degree 60

# From the list of concentration/electives courses below, select 7 hours of courses to take:

CRJ 119 Principles of Direct Supervision 3
CRJ 123 Introduction to Criminology 3
CRJ 124 Introduction to Corrections 3
CRJ 221 Criminal Law 3
CRJ 224 Institutional Corrections 3
CRJ 229 Juvenile Delinquency 3
CRJ 230 Principles of Courtroom Testimony 3
HUS 114 Human Services Internship 4
HUS 116 Human Services Practicum Orientation 3
HUS 152 Human Services Internship 1
HUS 154 Human Services Practicum Orientation 2
HUS 157 Communicable Diseases and Substance Abuse 3
HUS 210 Principles of Residential Care 2
HUS 234 Child Maltreatment 3
HUS 299 Special Topics in Human Services 1
PSY 223 Principles of Foster Care 1
SOC 223 Being Different: The Sociology of Deviant Behavior 3

Total Hours for Certificate 33-34

# From the list of concentration/electives courses below, select 9 hours of courses to take:

CRJ 119 Principles of Direct Supervision 3
CRJ 123 Introduction to Criminology 3
CRJ 124 Introduction to Corrections 3
CRJ 221 Criminal Law 3
CRJ 224 Institutional Corrections 3
CRJ 229 Juvenile Delinquency 3
CRJ 230 Principles of Courtroom Testimony 3
CRJ 270 Criminal Justice Assessment 3
HUS 114 Human Services Practicum Orientation 3
HUS 116 Principles of Foster Care 3
HUS 152 Process Addictions/Impulse Disorders 1
HUS 154 Ethics in Human Services 3
HUS 157 Communicable Disease/Substance Abuse 2
HUS 210 Principles of Residential Care 2
HUS 234 Child Maltreatment 3
HUS 251 Addiction Counseling and Treatment II 4
HUS 274 Human Services Practicum Orientation 1
HUS 299 Special Topics and Human Services 1
PSY 223 Abnormal Psychology or College of Lake County Catalog

134 2019-2020 College of Lake County Catalog
GENERAL HUMAN SERVICES (Certificate) Plan 25HF

The certificate program is intended for students who already hold professional degrees or have taken extensive course work in other academic fields. Students are strongly encouraged to consult with a department advisor prior to beginning this certificate. The certificate provides the additional study that is often required when there has been a career change.

**FIRST SEMESTER** 15
- HUS 123 Introduction to Group Dynamics 3
- HUS 128 Introduction to Counseling Skills 3
- HUS 140 Drugs and Society 3
- PSY 121 Introduction to Psychology 3
- HUS 231 Adult Development and Aging or 3
- PSY 222 Child Growth and Development or 3
- PSY 226 Adolescent Development 3

**SECOND SEMESTER** 16
- HUS 170* Human Services Practicum I 4
- SOC 224 Sociology of the Family 3
- SWK 121 Introduction to Social Work or 3
- SWK 228 Human Sexuality 3
- Electives ** 6

* HUS 274 is a prerequisite for HUS 170

** A minimum of 6 additional hours must be selected from one of two Human Services Program Options: Children and Adolescents or Adult Services. Substitutions may be made with department chair or division approval.

Total Hours for Certificate 31

Gainful Employment Information: www.clcillinois.edu/gehus

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**HUMAN SERVICES:**
**TRAUMA INTERVENTIONS AND PREVENTION**

*Degree: Associate in Applied Science, Human Services: Trauma Interventions and Prevention Plan 25HL*

This program is designed for students who are interested in gaining general knowledge and skills to work with people who have been victims of trauma or violence. Content areas include: Crisis intervention, emergency management, culture of violence, assessment, counseling, etc. The students will gain skills and knowledge to work in entry-level positions in the human services fields including Substance Use/Addictions, Child Care Resource and Referral, Domestic Violence, Homeless Programs, Sexual Violence programs, Corrections, etc.

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

**THIRD SEMESTER** 17
- HUS 134 Gender-based Violence 4
- HUS 140 Drugs and Society 3
- HUS 234 Child Maltreatment 3
- HUS 236 Crisis Intervention 3
- HUS 274 Human Services Practicum Orientation 1
  - Humanities or Fine Arts Elective 3

**FOURTH SEMESTER** 14
- HUS 121 Health and Nutrition 3
- HUS 219 Human Services Internship 4
  - Concentration/Elective # 7

Total Hours for A.A.S. Degree 62

# From the list of concentration/electives courses below, select 7 hours of courses to take:

- CRJ 119 Principles of Direct Supervision 3
- CRJ 123 Introduction to Criminology 3
- CRJ 124 Introduction to Corrections 3
- CRJ 224 Institutional Corrections 3
- CRJ 227 Community-Based Corrections 3
- CRJ 229 Juvenile Delinquency 3
- CRJ 230 Principles of Courtroom Testimony 3
- HUS 114 Human Services Supervision 3
- HUS 116 Principles of Foster Care 3
- HUS 152 Process Addictions/Impulse Disorders 2
- HUS 157 Communicable Diseases and Substance Abuse 2
- HUS 210 Principles of Residential Care 3
- HUS 251 Addiction Counseling and Treatment II 4
- HUS 253 Advanced Addiction Counseling Skills 3
- HUS 299 Special Topics in Human Services 1-3
- PSC 122 State and Local Politics 3
- PSY 223 Abnormal Psychology or 3
- SOC 223 Being Different: The Sociology of Deviant Behavior 3
This program is designed for students who have a Bachelors or Masters degree in Human Services, Social Work, Counseling, or an approved related field and are interested in gaining specialized knowledge and skills to work with survivors of various traumas including war, violence, natural and man-made disasters, interpersonal violence, abuse, accidents, and personal/family crises. The students will gain skills and knowledge to enhance their previous education and enable employment in the human services fields such as Substance Use/Addictions, Child Care Resources and Referral, Domestic Violence, Homeless Programs, Sexual Violence programs, Corrections, etc.

Students with less than a Bachelors Degree are encouraged to complete the A.A.S Degree in Trauma Interventions and Prevention, Plan 25HL. The Prerequisite Coursework may be waived by the Department Chair for students with a Masters Degree in an approved program.

**REQUIRED PREREQUISITE COURSEWORK**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tr>
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<td>Health and Nutrition</td>
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<td>HUS 123</td>
<td>Introduction to Group Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>HUS 128</td>
<td>Introduction to Counseling Skills</td>
<td>3</td>
</tr>
<tr>
<td>HUS 140</td>
<td>Drugs and Society</td>
<td>3</td>
</tr>
<tr>
<td>HUS 231</td>
<td>Adult Development and Aging or Lifespan Development or Child Growth and Development or Adolescent Development</td>
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<td>PSY 220</td>
<td>Lifespan Development or Child Growth and Development</td>
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<td>PSY 222</td>
<td>Adolescents</td>
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**FIRST SEMESTER**

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<tr>
<th>Course</th>
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<td>Trauma Violence and Prevention</td>
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<td>HUS 234</td>
<td>Child Maltreatment</td>
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<td>HUS 154</td>
<td>Ethics in Human Services</td>
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**SECOND SEMESTER**

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<td>Trauma Interventions</td>
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<td>HUS 236</td>
<td>Crisis Intervention</td>
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**SELECT 5 HOURS FROM THE LIST BELOW (MUST BE TAKEN AT CLC)**

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<tr>
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<td>Human Services Supervision</td>
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<td>HUS 116</td>
<td>Principles of Foster Care</td>
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<td>HUS 151</td>
<td>Addiction Counseling and Treatment I</td>
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<td>HUS 152</td>
<td>Addiction Counseling and Treatment II</td>
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<td>HUS 157</td>
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<td>HUS 235</td>
<td>Addiction Counseling and Treatment I</td>
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<tr>
<td>HUS 299</td>
<td>Special Topics and Human Services</td>
<td>1-3</td>
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<tr>
<td>SWK 228</td>
<td>Human Sexuality</td>
<td>3</td>
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<td>CRJ 123</td>
<td>Introduction to Criminology</td>
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<td>CRJ 230</td>
<td>Principles of Courtroom Testimony</td>
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<td>FST 120</td>
<td>Introduction to Emergency Management</td>
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<td>PSC 122</td>
<td>State and Local Politics</td>
<td>3</td>
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<td>PSY 223</td>
<td>Abnormal Psychology or Being Different: The Sociology of Deviant Behavior</td>
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<tr>
<td>SOC 223</td>
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<td>HUS 274</td>
<td>Human Services Practicum Orientation</td>
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**Total Hours for certificate**

26

Gainful Employment Information: www.clcillinois.edu/gehus

**ACCELERATED ADDICTIONS COUNSELING AND TREATMENT**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>HUS 114</td>
<td>Human Services Supervision</td>
<td>3</td>
</tr>
<tr>
<td>HUS 116</td>
<td>Principles of Foster Care</td>
<td>1</td>
</tr>
<tr>
<td>HUS 151</td>
<td>Addiction Counseling and Treatment I</td>
<td>3</td>
</tr>
<tr>
<td>HUS 152</td>
<td>Addiction Counseling and Treatment II</td>
<td>4</td>
</tr>
<tr>
<td>HUS 157</td>
<td>Communicable Disease/Impulse Disorders</td>
<td>2</td>
</tr>
<tr>
<td>HUS 234</td>
<td>Child Maltreatment</td>
<td>3</td>
</tr>
<tr>
<td>HUS 235</td>
<td>Addiction Counseling and Treatment I</td>
<td>3</td>
</tr>
<tr>
<td>HUS 299</td>
<td>Special Topics and Human Services</td>
<td>1-3</td>
</tr>
<tr>
<td>SWK 228</td>
<td>Human Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 123</td>
<td>Introduction to Criminology</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 124</td>
<td>Introduction to Corrections</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 224</td>
<td>Institutional Corrections</td>
<td>3</td>
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<tr>
<td>CRJ 227</td>
<td>Community Based Corrections</td>
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<tr>
<td>CRJ 229</td>
<td>Juvenile Delinquency</td>
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<td>CRJ 230</td>
<td>Principles of Courtroom Testimony</td>
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<tr>
<td>FST 120</td>
<td>Introduction to Emergency Management</td>
<td>3</td>
</tr>
<tr>
<td>PSC 122</td>
<td>State and Local Politics</td>
<td>3</td>
</tr>
<tr>
<td>PSY 223</td>
<td>Abnormal Psychology or Being Different: The Sociology of Deviant Behavior</td>
<td>3</td>
</tr>
<tr>
<td>SOC 223</td>
<td></td>
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<tr>
<td>HUS 274</td>
<td>Human Services Practicum Orientation</td>
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</table>

**Total Hours for certificate**

26

CLC has achieved national accreditation by the National Addiction Studies Accreditation Commission (NASAC) and is commended for excellence in the preparation of the 21st Century Addictions Professional Workforce. The Human Services Addiction Counseling and Treatment Program (ACT) is accredited by the Illinois Certification Board (ICB, IAO DAPCA INC.) as both an Advanced and Preparatory Training Program.

Plan 25HN is an accelerated track of the Addiction Counseling and Treatment program for individuals who have completed or are currently enrolled in a Master’s Degree from an accredited clinical graduate program in Social Work, Counseling, Clinical Psychology, Human Services, or other clinical counseling-related field of study. Upon completion of this ICB, Inc. Advanced Addiction Training Program and successfully passing the Certified Alcohol/Drug Counselor (CADC) Exam, the student will earn certification as a CADC from the ICB, Inc. To be accepted into this program, students must have completed or be in the second-year of a clinical master’s program, submit a transcript from an accredited clinical graduate program, complete a screening form and meet other requirements such as background checks, drug screens, and interviews with full-time faculty members in Human Services who will also verify course equivalencies. Upon application to this program option, students should have no history of alcohol or other substance use or addictive disorders, or should be in recovery without recurrence and out of treatment or correctional supervision for at least 18 months.
<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>FIRST SEMESTER</strong></td>
<td>HUS 140</td>
<td>Drugs and Society</td>
<td>3</td>
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<tr>
<td></td>
<td>HUS 151*</td>
<td>Addiction Counseling and Treatment I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HUS 155*</td>
<td>Pharmacology for Human Services</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>* department consent needed to take concurrently with HUS 140</td>
<td></td>
</tr>
<tr>
<td><strong>SECOND SEMESTER</strong></td>
<td>HUS 251</td>
<td>Addiction Counseling and Treatment II</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>HUS 253</td>
<td>Advanced Addiction Counseling Skills</td>
<td>3</td>
</tr>
<tr>
<td><strong>THIRD SEMESTER</strong></td>
<td>HUS 275</td>
<td>Addiction Counseling Practicum I</td>
<td>3</td>
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<td><strong>FOURTH SEMESTER</strong></td>
<td>HUS 276</td>
<td>Addiction Counseling Practicum II</td>
<td>1-4</td>
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</tbody>
</table>

**Total Hours for Certificate** 19-22+

* A minimum of 19 credit hours must be completed at CLC

Gainful Employment Information:
www.ccllinois.edu/gehus

For more information on recommended courses or program specific advising, contact the following faculty members or the Business and Social Sciences Division at (847) 543-2047:

Mick Cullen | Janet Mason
### Political Science

**Business and Social Sciences Division**  
Room T302, (847) 543-2047  
www.clcillinois.edu/programs/psc

**Degree:** Associate in Arts  
**Plan 13AB**

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37. All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

#### First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENG 121</td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>MTH 141</td>
<td>Quantitative Literacy <strong>or</strong></td>
<td>3</td>
</tr>
<tr>
<td>MTH 142</td>
<td>General Education Statistics <strong>or</strong></td>
<td>3-4</td>
</tr>
<tr>
<td>MTH 222</td>
<td>Business Statistics</td>
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<td>SOC 121</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>Humanities or Fine Arts Elective</td>
<td>3</td>
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</table>

#### Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENG 122</td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>GEG 120</td>
<td>Principles of Physical Geography</td>
<td>4</td>
</tr>
<tr>
<td>ECO 221</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
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<td>Concentration/Elective</td>
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#### Third Semester

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CMM 121</td>
<td>Fundamentals of Speech</td>
<td>3</td>
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<tr>
<td>PHI 121</td>
<td>Introduction to Philosophy</td>
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</tr>
<tr>
<td>Concentration/Elective</td>
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<tr>
<td>Concentration/Elective</td>
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#### Fourth Semester

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<thead>
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<tr>
<td>HST 121</td>
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<td>PHI 122</td>
<td>History of Western Civilization 1500 to Present</td>
<td>3</td>
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<tr>
<td>HST 141</td>
<td>World History to 1500</td>
<td>3</td>
</tr>
<tr>
<td>HST 142</td>
<td>World History from 1500</td>
<td>3</td>
</tr>
<tr>
<td>PSC 121</td>
<td>American National Politics</td>
<td>3</td>
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<tr>
<td>PSC 122</td>
<td>State and Local Politics</td>
<td>3</td>
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<tr>
<td>PSC 221</td>
<td>Comparative Political Systems</td>
<td>3</td>
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<tr>
<td>PSC 222</td>
<td>International Relations</td>
<td>3</td>
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<tr>
<td>Additional Electives as Needed</td>
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</table>

**Math requirements vary at four-year institutions.**

**Note:** This plan includes recommendations for students who plan to major in this subject at a four year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses or program specific advising, contact Tim Murphy at (847) 543-2940 or the Business and Social Sciences Division at (847) 543-2047.
PSYCHOLOGY
Business and Social Sciences Division
Room T302, (847) 543-2047
www.clcillinois.edu/programs/psy

Degree: Associate in Arts
Plan 13AB

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

FIRST SEMESTER 16
ENG 121 English Composition I 3
MTH 141 Quantitative Literacy or MTH 142 Business Statistics or MTH 222 General Education Statistics or 3-4
PSY 121* Introduction to Psychology (elective) 3
ANT 221 Cultural Anthropology 3
Fine Arts Elective 3

SECOND SEMESTER 16
ENG 122 English Composition II 3
BIO 161 General Biology I 4
Humanities Elective 3
Concentration/Elective 3

THIRD SEMESTER 15-16
CMM 121 Fundamentals of Speech 3
Physical Science Elective 3-4
MCS 121 Computer Science Concepts (elective) 3
PSC 121 American National Politics 3
Concentration/Elective 3

FOURTH SEMESTER 15
Humanities or Fine Arts Elective (with I/M designation, if needed) 3
HST 222 United States History 1876 to Present or 3
SOC 121 Introduction to Sociology or SOC 222 Social Problems 3
Concentration/Elective 3

CONCENTRATION/ELECTIVES
RECOMMENDED COURSES:
PSY 121 Introduction to Psychology 3
PSY 122 Industrial Organizational Psychology 3
PSY 220 Lifespan Development 3
PSY 222 Child Growth and Development 3
PSY 223 Abnormal Psychology 3
PSY 224 Theories of Personality 3
PSY 225 Social Psychology 3
PSY 226 Adolescent Psychology 3
PSY 228 Human Sexuality 3
PSY 229 Psychology of Gender 3
PSY 240 Brain and Behavior 3
PSY 248 Psychology of the Criminal Mind 3

* PSY 121 is a prerequisite for all 200-level Psychology courses.

The Bachelor of Arts/Science degree at many four-year institutions may require foreign language at the college level. Students who are planning to transfer should meet with a Student Development Counselor or speak with the admissions office of the transfer school to identify the foreign language requirement for the intended major.

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For more information on recommended courses or program specific advising, contact the following faculty members or the Business and Social Sciences Division at (847) 543-2047.

Nora Benjamin | Shari Brueske | Evan Finer
Kenneth Kikuchi | Martha Lally
Matthew Rasmussen | Eric Rogers
Suzanne Valentine-French
### SOCIAL WORK

**Business and Social Sciences Division**  
Room T302, (847) 543-2047  
www.clcillinois.edu/programs/swk

**Degree:** Associate in Arts  
**Plan 13AB**

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37.

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#### FIRST SEMESTER  
15-16

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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ENG 121</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MTH 142</td>
<td>General Education Statistics or</td>
<td>3-4</td>
</tr>
<tr>
<td>MTH 222</td>
<td>Business Statistics</td>
<td>3</td>
</tr>
<tr>
<td>PSY 121</td>
<td>Introduction to Psychology</td>
<td>3</td>
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<tr>
<td>PHI 125</td>
<td>Introduction to Ethics (I/M)</td>
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</tr>
<tr>
<td>PSC 121</td>
<td>American National Politics</td>
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#### SECOND SEMESTER  
15

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<thead>
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<tr>
<td>ENG 122</td>
<td>English Composition II</td>
<td>3</td>
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<tr>
<td>GEG 121</td>
<td>Physical Geography or World</td>
<td>3</td>
</tr>
<tr>
<td>CHM 140</td>
<td>Chemistry for a Changing World</td>
<td>3</td>
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<tr>
<td>SWK 121</td>
<td>Introduction to Social Work (Elective)</td>
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<tr>
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<td>Concentration Elective</td>
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#### THIRD SEMESTER  
16

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<tr>
<td>CMM 121</td>
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<tr>
<td>BIO 141</td>
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<tr>
<td>BIO 123</td>
<td>Principles of Biology</td>
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</tr>
<tr>
<td>SWK 228</td>
<td>Human Sexuality (elective)</td>
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<td>Fine Arts Elective</td>
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#### FOURTH SEMESTER  
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<tr>
<td>ANT 221</td>
<td>Cultural Anthropology</td>
<td>3</td>
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<tr>
<td>PHI 121</td>
<td>Introduction to Philosophy</td>
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#### CONCENTRATION/ELECTIVES

**RECOMMENDED COURSES:**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ECO 221</td>
<td>Principles of Macroeconomics</td>
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</tr>
<tr>
<td>ECO 222</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>GXS 229</td>
<td>Sex, Gender and Power</td>
<td>3</td>
</tr>
<tr>
<td>HUS 123</td>
<td>Introduction to Group Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>HUS 128</td>
<td>Introduction to Counseling Skills</td>
<td>3</td>
</tr>
<tr>
<td>HUS 140</td>
<td>Drugs and Society</td>
<td>3</td>
</tr>
<tr>
<td>HUS 234</td>
<td>Child Maltreatment</td>
<td>3</td>
</tr>
<tr>
<td>PSY 223</td>
<td>Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 229</td>
<td>Psychology of Gender</td>
<td>3</td>
</tr>
<tr>
<td>SOC 121</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 224</td>
<td>Sociology of the Family</td>
<td>3</td>
</tr>
<tr>
<td>SOC 225</td>
<td>Race, Class, &amp; Gender</td>
<td>3</td>
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<tr>
<td>SWK 121</td>
<td>Introduction to Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SWK 228</td>
<td>Human Sexuality</td>
<td>3</td>
</tr>
</tbody>
</table>

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Mick Cullen | Janet Mason
SOCIOMETRY
Business and Social Sciences Division
Room T302, (847) 543-2047
www.clcillinois.edu/programs/soc

Degree: Associate in Arts
Plan 13AB

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FIRST SEMESTER 15-16
ENG 121 English Composition I 3
MTH 141 Quantitative Literacy or 3
MTH 142 General Education Statistics or 3
MTH 222 Business Statistics 3-4
PHI 125 Introduction to Ethics (I/M) 3
SOC 121 Introduction to Sociology (elective) 3
Concentration/Elective 3

SECOND SEMESTER 16
ENG 122 English Composition II 3
BIO 120 Environmental Biology or 4
BIO 141 Concepts in Biology 3
ANT 221 Cultural Anthropology 3
Concentration/Elective 3

THIRD SEMESTER 15
CMM 121 Fundamentals of Speech 3
PSC 121 American National Politics 3
Concentration/Elective 3
Concentration/Elective 3

FOURTH SEMESTER 15
HST 222 United States History 1876 to Present 3
SOC 221 Social Problems 3
SOC 222 Social Problems 3
SOC 223 Being Different: The Sociology of Deviant Behavior 3
SOC 224 Sociology of the Family 3
SOC 225 Class, Race, and Gender 3
SOC 226 Sex, Gender, and Power 3
SOC 299 Special Topics in Sociology 3

CONCENTRATION/ELECTIVES
GEG 122 Cultural Geography 3
GXS 121 Introduction to Gender Studies 3
PHI 128 Social and Political Philosophy 3
PSY 121 Introduction to Psychology 3
PSY 225 Social Psychology 3
SOC 121 Introduction to Sociology 3
SOC 222 Social Problems 3
SOC 223 Being Different: The Sociology of Deviant Behavior 3
SOC 224 Sociology of the Family 3
SOC 225 Class, Race, and Gender 3
SOC 226 Sex, Gender, and Power 3
SOC 299 Special Topics in Sociology 3

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Frederic Hutchinson | Sonia Oliva
Suzanne Pryga | John Tenuto
TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES (TESOL) (Certificate) Plan 23TK

This certificate is intended for current teachers, native or non-native speakers, who wish to expand their professional opportunities and to enhance their teaching skills by adding a TESOL certificate to their portfolio and for college graduates and/or first time teachers interested in teaching English in a non-English speaking country, as well as for professionals interested in applying their skills in the field of English language teaching.

**FIRST SEMESTER**
- EDU 121 Introduction to Teaching or PSY 121 Introduction to Psychology (3)
- CMM 127 Intercultural Communication (3)
- ENG 128 Linguistics and Society (3)
- ENG 265 Grammar for English Language Teachers (3)

**SECOND SEMESTER**
- ENG 127 Introduction to General Linguistics (3)
- ENG 261 Methods of Teaching ESL (3)

**THIRD SEMESTER**
- ENG 262 Introduction to General Linguistics and Bilingual Education (3)
- ENG 267 Phonetics and Phonology for English Language Teachers (3)
- ENG 268 Assessment of the English Language Learner (3)

**FOURTH SEMESTER**
- ENG 271 Teaching English to Speakers of Other Languages Practicum (3)

Total Hours for Certificate: 30

TEACHING ENGLISH LEARNERS (TEL) (Certificate) Plan 23TN

This 18-hour Core Certificate in Teaching English Learners is intended for certified teachers who wish to expand their professional opportunities and to enhance their teaching skills by adding a TEL Core certificate to their portfolio. The coursework for this certificate satisfies the requirements of the ISBE ESL endorsement, including the 100 hours of clinical experience. This endorsement allows certified teachers to teach ESL in grades they are certified to teach. Applicants must complete an application to the State to have this endorsement put on their teaching certificates.

**FIRST SEMESTER**
- CMM 127 Intercultural Communication (3)
- ENG 128 Linguistics and Society (3)
- ENG 262 ELL/Bilingual Education Theory (3)

**SECOND SEMESTER**
- ENG 261 Methods of Teaching ESL (3)

**THIRD SEMESTER**
- ENG 127 Introduction to General Linguistics or ENG 265 Teaching Grammar to ELLs or ENG 267 Teaching Pronunciation to ELLs (3)
- ENG 268 Assessment of ELLs (3)

Total Hours for Certificate: 18
TEACHING ENGLISH AS A FOREIGN LANGUAGE
(Certificate) Plan 23TO

This 12-hour certificate is intended for those who wish to expand their professional opportunities and to enhance their teaching skills by adding a Teaching English as a Foreign Language (TEFL) certificate to their portfolio. TEFL Certificates are often required to teach English in non-English speaking countries around the world.

**FIRST SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ENG 272</td>
<td>Principles and Practices in Foreign Language Teaching</td>
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</tr>
<tr>
<td>ENG 273</td>
<td>English Language: Structure and Use</td>
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**SECOND SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ENG 274</td>
<td>Teaching English as a Foreign Language Pedagogy</td>
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<tr>
<td>ENG 275</td>
<td>Language Teaching Fieldwork</td>
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</table>

**Total Hours for Certificate** 12

For more information on recommended courses or program specific advising, contact the following faculty members or the Communication Art, Humanities and Fine Arts division at (847) 543-2040:

Joyce Gatto | Jacinta Thomas
LEGAL STUDIES AND PUBLIC SAFETY

CRIMINAL JUSTICE
EMERGENCY MEDICAL TECHNOLOGY
FIRE SCIENCE TECHNOLOGY
LEGAL STUDIES
WHAT IS YOUR PLAN AFTER CLC?

I WANT TO TRANSFER TO A FOUR-YEAR COLLEGE OR UNIVERSITY.

The Associate in Arts (A.A.), Associate in Science (A.S.) or other specially focused transfer degrees will probably be your best bet.

- **Associate in Arts (A.A.) degree** - typically ranges from 60-64 credit hours and should parallel the first two years of a liberal arts-related baccalaureate degree program.
- **Associate in Science (A.S.) degree** - typically ranges from 60-64 credit hours and should parallel the first two years of a science-related baccalaureate degree program.
- There are other specialized Associate’s transfer degrees in Engineering and Fine Arts (Art and Music).

Some colleges will accept credits earned through an Associate in Applied Science (A.A.S) but it would be best to confirm with the school you plan to attend next.

Whatever your plan, it is best to think about what college and major you would like to transfer to and design your coursework around the requirements of that institution. Student development counselors are experts on transfer planning and are happy to help!

I WANT TO START WORKING IN MY CHOSEN FIELD.

The Associate in Applied Science (A.A.S) is a degree designed to help students get into their chosen careers with the knowledge and skills needed by specific industries. These programs were created to provide tangible abilities in a field so that you can either find a job or upgrade your current job when you leave CLC.

Many programs also offer **short-term certificates** that can help get you into the workforce quickly. These certificates may cover a specific proficiency or technical ability to give you a jumpstart in the field. Many can be stacked together to work toward a degree.

- **Associate in Applied Science (A.A.S.) degree** – typically ranges from 60-72 credit hours and focuses on real-world career skills.
- **Career Certificates** – typically range from 9-30 credit hours and focus on a specialized skill.

I AM NOT REALLY SURE WHAT I WANT TO DO NEXT.

*That is okay!* At CLC, there are many people such as student development counselors, career counselors, academic advisors, and faculty who can help you discover your path. Page 21 has contact information for the people that can help. If you would like to discuss career interests or talk to someone about taking classes that could work for many degree or certificate options, stop by the Counseling, Advising, and Transfer Center.

This catalog is organized by fields of interest. Reading through this information may help spur an idea for you to explore further. For example, you may be interested in the Healthcare field; the Wellness and Health Sciences field of interest offers many options for you to consider.
ASSOCIATE IN ARTS (13AB)

Students may obtain an Associate in Arts degree from the College of Lake County by successfully meeting college requirements and course requirements outlined below.

The College of Lake County is a participant in the Illinois Articulation Initiative (IAI), a major statewide cooperative agreement that eases the transfer process of the completed Illinois General Education Core Curriculum among participating institutions.

COMMUNICATION - 9 CREDIT HOURS
A grade of C or better is required for both ENG courses.

☐ CMM 121 Fundamentals of Speech (3)
  ☐ C2 900

☐ ENG 121 English Composition I (3)
  ☐ C1 900

☐ ENG 122 English Composition II (3)
  ☐ C1 901 R
  ☐ OR

☐ ENG 126 Advanced Composition: Scientific and Technical Communications (3)
  ☐ C1 901 R

SOCIAL AND BEHAVIORAL SCIENCE - 9 CREDIT HOURS
Select courses from at least two different disciplines i.e. different prefixes.

☐ ANT 121+ Introduction to Anthropology (3)
  ☐ S1 900N
  ☐ Cultural Anthropology (3)
  ☐ S1 901N

☐ ANT 221+ Introduction to Physical Anthropology (3)
  ☐ S1 902

☐ ANT 224 Introduction to Archaeology (3)
  ☐ S1 903

☐ ANT 228+ Cross-Cultural Relationships (3)
  ☐ S1 904D

☐ ECO 221 Principles of Macroeconomics (3)
  ☐ S3 901

☐ ECO 222 Principles of Microeconomics (3)
  ☐ S3 902

☐ GEG 122 Cultural Geography (3)
  ☐ S4 900N

☐ GEG 123 World Regional Geography (3)
  ☐ S4 900N

☐ GXS 121+ Introduction to Gender Studies (3)
  ☐ S9 900

☐ GXS 229+ Sex, Gender, and Power (3)
  ☐ S7 904D

☐ HST 121+ History of Western Civilization to 1500 (3)
  ☐ S2 902

☐ HST 122+ History of Western Civilization 1500 to Present (3)
  ☐ S2 903

☐ HST 126+ History of Contemporary Non-Western Civilization (3)
  ☐ S2 905N

☐ HST 127+ History of Chinese Culture and Society (3)
  ☐ S2 920N

☐ HST 221 United States History to 1876 (3)
  ☐ S2 900

☐ HST 222 United States History 1876 to Present (3)
  ☐ S2 901

☐ HST 245+ History of Latin America to 1825 (3)
  ☐ S2 920N

☐ HST 246+ History of Latin America from 1825 (3)
  ☐ S2 920N

☐ PSC 121 American National Politics (3)
  ☐ S5 900

☐ PSC 122 State and Local Politics (3)
  ☐ S5 902

☐ PSC 221+ Comparative Political Systems (3)
  ☐ S5 905

☐ PSC 222+ International Relations (3)
  ☐ S5 904N

☐ PSY 121 Introduction to Psychology (3)
  ☐ S6 900

☐ PSY 220 Lifespan Development (3)
  ☐ S6 902

☐ PSY 222 Child Growth and Development (3)
  ☐ S6 903

☐ PSY 225 Social Psychology (3)
  ☐ S8 900

☐ PSY 226 Adolescent Psychology (3)
  ☐ S6 904

☐ SOC 121 Introduction to Sociology (3)
  ☐ S7 900

☐ SOC 222 Social Problems (3)
  ☐ S7 901

☐ SOC 224 Sociology of the Family (3)
  ☐ S7 902

☐ SOC 225+ Class, Race, and Gender (3)
  ☐ S7 903D

☐ SOC 229+ Sex, Gender, and Power (3)
  ☐ S7 904D

PHYSICAL AND LIFE SCIENCES - 7 CREDIT HOURS
One course must be selected from Physical Science and one course from Life Science. At least one course must be a laboratory science course (L).

PHYSICAL SCIENCE
☐ CHM 120L (LAB) Chemical Concepts (4)
  ☐ P1 902L

☐ CHM 121L (LAB) General Chemistry I (5)
  ☐ P1 902L

☐ CHM 140 Chemistry for a Changing World (3)
  ☐ P1 903

☐ CHM 142L (LAB) Chemistry for a Changing World (4)
  ☐ P1 903L

☐ ESC 120L (LAB) Earth Science (4)
  ☐ P1 905L

☐ ESC 121L (LAB) Physical Geology (4)
  ☐ P1 907L

☐ ESC 123 Introduction to Meteorology (3)
  ☐ P1 905

☐ ESC 124 Oceanography (3)
  ☐ P1 905

☐ ESC 125 Geology of National Parks (3)
  ☐ P1 907

☐ ESC 127L (LAB) Introduction to Meteorology (4)
  ☐ P1 905L

☐ ESC 128 Great Mysteries of the Earth (3)
  ☐ P1 905

☐ ESC 129 Severe and Hazardous Weather (3)
  ☐ P1 905

☐ ESC 140L (LAB) Introduction to Astronomy (4)
  ☐ P1 906L

☐ ESC 141 Introduction to Astronomy (3)
  ☐ P1 906

☐ ESC 224 Environmental Geology (3)
  ☐ P1 908

☐ GEG 120L (LAB) Physical Geography (4)
  ☐ P1 909L

☐ GEG 121 Physical Geography (3)
  ☐ P1 909

☐ PHY 120L (LAB) Practical Aspects of Physics (4)
  ☐ P1 901L

☐ PHY 121L (LAB) General Physics I (5)
  ☐ P1 900L

☐ PHY 123L (LAB) Physics for Science and Engineering I (5)
  ☐ P2 900L

LIFE SCIENCE
☐ BIO 120L (LAB) Environmental Biology (4)
  ☐ L1 905L

☐ BIO 123L (LAB) Principles of Biology (4)
  ☐ L1 900L

☐ BIO 127 Introduction to Evolution (3)
  ☐ L1 907

☐ BIO 140 Environmental Biology without Lab (3)
  ☐ L1 905

☐ BIO 141L (LAB) Concepts of Biology (4)
  ☐ L1 900L

☐ BIO 149 Genetics and Society (3)
  ☐ L1 906

☐ BIO 161L (LAB) General Biology I (4)
  ☐ L1 910L

MATHEMATICS – 3 CREDIT HOURS

☐ MTH 127 Finite Mathematics I (3)
  ☐ M1 906

☐ MTH 140 Contemporary Mathematics (3)
  ☐ M1 904

☐ MTH 141 Quantitative Literacy (3)
  ☐ M1 901

☐ MTH 142 General Education Statistics (3)
  ☐ M1 902

☐ MTH 145 Calculus and Analytic Geometry I (5)
  ☐ M1 900-1

☐ MTH 146 Calculus and Analytic Geometry II (4)
  ☐ M1 900-2

☐ MTH 221 Mathematics for Elementary Teaching II (3)
  ☐ M1 903

☐ MTH 222 Business Statistics (4)
  ☐ M1 902

☐ MTH 224 Calculus for Business and Social Science (4)
  ☐ M1 900-B

☐ MTH 244 Discrete Mathematics (3)
  ☐ M1 905

☐ MTH 246 Calculus and Analytic Geometry III (5)
  ☐ M1 900-3
**HUMANITIES AND FINE ARTS – 9 CREDIT HOURS**

At least one course must be selected from the Humanities section and one course from the Fine Arts section.

**HUMANITIES**
- ARA 222+ Intermediate Modern Standard Arabic II (4) H1 900
- CHI 222+ Intermediate Chinese II (4) H1 900
- ENG 129+ Women in Literature (3) H3 911D
- ENG 223 Early American Literature (3) H3 914
- ENG 225 Survey of British Literature I (3) H3 912
- ENG 226 Survey of British Literature II (3) H3 913
- ENG 227 Introduction to Shakespeare (3) H3 905
- ENG 228+ World Literature (3) H3 906
- ENG 229 20th Century American Literature (3) H3 915
- ENG 241 Introduction to Poetry (3) H3 903
- ENG 243 Introduction to Fiction (3) H3 901
- ENG 244+ Mythology and Fairy Tales (3) H9 901
- ENG 246+ Latin American Writers (3) H9 908N
- ENG 247+ International Women Writers (3) H3 911D
- ENG 249 Children’s Literature (3) H3 918
- FRN 222+ Intermediate French II (4) H1 900
- FRN 223 French Civilization I (3) H1 900
- FRN 224 French Civilization II (3) H1 900
- GER 222+ Intermediate German II (4) H1 900
- GER 224 German Civilization II (3) H1 900
- HUM 121+ Humanities: Ancient Times to the Middle Ages (3) HF 902
- HUM 122+ Humanities: Renaissance to the Present (3) HF 903
- HUM 127 Critical Thinking (3) H4 906
- HUM 128+ Introduction to Middle-Eastern Civilizations (3) H2 903 N
- HUM 129+ Introduction to East Asian Civilization (3) HF 904 N
- HUM 141+ World Civilizations 20/21st Century (3) HF 904 N
- HUM 211+ American Decades (3) HF 906D
- HUM 221+ Women and the Arts (3) HF 907D
- ITL 222+ Intermediate Italian II (4) H1 900
- JPN 222+ Intermediate Japanese II (4) H1 900
- LAT 121 Introduction to Latin-American Studies (3) HF 906D
- PHI 121 Introduction to Philosophy (3) H4 904
- PHI 122 Logic (3) H4 906
- PHI 123 Philosophy of Religion (3) H4 905
- PHI 125+ Introduction to Ethics (3) H4 904
- PHI 126+ World Religions (3) H5 904N
- PHI 128 Introduction to Social and Political Philosophy (3) H4 907
- PHI 221+ Asian Philosophy (3) H4 903N
- PHI 222+ Intermediate Russian II (4) H1 900
- PHI 223+ Intermediate Spanish II (4) H1 900
- PHI 224+ Spanish Civilization I (3) H1 900
- PHI 225+ Spanish Civilization II (3) H1 900

**FINE ARTS**
- ART 121 Art History I (3) F2 900
- ART 240+ History of Art I (3) F2 901
- ART 241+ History of Art II (3) F2 902
- ART 260 History of Photography (3) F2 904
- ART 261+ Non-Western Art History (3) F2 903N
- DNC 240+ The Art of Dance (3) F1 906
- HUM 122+ Introduction to Film (3) F2 908
- HUM 123 Introduction to the Performing Arts (3) F3 900
- HUM 126+ Introduction to East Asian Civilization (3) HF 904N
- HUM 140+ World Humanities 20/21st Century (3) HF 904N
- HUM 141+ American Decades (3) HF 906D
- HUM 222 Film and Society (3) F2 908
- HUM 226+ Women and the Arts (3) HF 907D
- MUS 124 Music Appreciation (3) F1 900
- MUS 224 Music Literature (3) F1 902
- THE 121 Introduction to Theatre I (3) F1 907
- THE 123 Diversity in American Theatre (3) F1 909D

**INTERNATIONAL/MULTICULTURAL REQUIREMENTS**

Choose one course with a + following the course number OR one of the following:
- ASI 121, CMM 127, ECO 225, EDU 224, ENG 263, 264, GKS 221, 299, HST 128, LAT 121, PDS 123, PHI 128, 129, PSY 229, SSI 121.

This course can fulfill both the I/M requirement and a Social Science, Humanities, Fine Arts, or Elective requirement. A B.A. degree at many four year colleges may require college level foreign language.

**AREA OF CONCENTRATION/ELECTIVE REQUIREMENTS - 23 CREDIT HOURS**

- Choose elective courses with a 1.1 (transfer course) PCS code that relate to your intended major. Students should choose electives only after consulting with an Advising Professional. The PCS code for each course is listed in the course descriptions starting on page 224 of this catalog. Up to six hours of courses with a 1.2 (career course) PCS code may be used as general electives in the degree. All 199 courses are exempt from this rule. Students should select these courses only after they have verified their transferability with their Advising Professional or the transfer institution. EDU 999 does not count toward this six-hour limit.
- Students may not receive credit towards degree for both CHM 140 and CHM 142, or both BIO 120 and BIO 140, or both ESC 123 and ESC 127.
- Students with credit for both MTH 122 and MTH 123 will not be given credit for MTH 144. Students may not receive credit towards degree for both (MTH 122 and MTH 144) or (MTH 123 and MTH 144).
- Please review lists of recommended courses for individual programs of study listed on pages 58-262 in this catalog.

**Total A.A. Degree Requirements 60 credit hours**

**OTHER GRADUATION REQUIREMENTS**

- Cumulative CLC GPA of 2.00 or higher
- Completion of at least 15 credit hours at CLC
- **Petition to Graduate:** The Petition to Graduate form must be submitted to the Welcome and One-Stop Center to have your degree processed. It can be found online at [www.ccillinois.edu/petition](http://www.ccillinois.edu/petition). Contact Admissions for more information at (847) 543-2061. Deadlines to Petition:
  - Spring – February 15; Summer – July 1; Fall – October 1
CRIMINAL JUSTICE
Business and Social Sciences Division,
Room T302, (847) 543-2047
www.clcillinois.edu/programs/crj

Degree: Associate in Arts
Plan 13AB

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

FIRST SEMESTER 15-16
ENG 121 English Composition I 3
MTH 142 General Education Statistics or
MTH 222 Business Statistics 3-4
PSY 121 Introduction to Psychology 3
CRJ 121 Introduction to Criminal Justice (elective) 3
HUM 127 Critical Thinking 3

SECOND SEMESTER 15
ENG 122 English Composition II 3
GEG 121 Physical Geography 3
SOC 121 Introduction to Sociology 3
CRJ 122 Introduction to Policing (elective) 3
CRJ 123 Introduction to Criminology (elective) 3

THIRD SEMESTER 16
CMM 121 Fundamentals of Speech 3
BIO 120 Environmental Biology 4
Fine Arts Elective 3
CRJ 124 Introduction to Corrections (elective) 3
CRJ 221 Criminal Law (elective) 3

FOURTH SEMESTER 15
PSC 121 American National Politics 3
PHI 125 Introduction to Ethics 3
CRJ 222 Criminal Procedural Law (elective) 3
CRJ 229 Juvenile Delinquency (elective) 3
CRJ 248 Psychology of the Criminal Mind (elective) 3

Math requirements vary at four-year institutions

Note: This plan includes recommendations for students who plan to major in this subject at a four-year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses or program specific advising, contact the following faculty or the Business and Social Sciences Division at (847) 543-2047.

Javier Alonso | Chris Utecht | Jennifer Hulvat
To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

**FIRST SEMESTER**

ENG 120  Technical Composition I or
ENG 121  English Composition I 3
PSY 121  Introduction to Psychology 3
CRJ 112  Introduction to Criminal Justice 3
CRJ 122  Introduction to Policing 3

**SECOND SEMESTER**

CMM 121  Fundamentals of Speech 3
SOC 121  American National Politics or
PSC 121  State and Local Politics 3
CRJ 123  Introduction to Criminology 3
CRJ 124  Introduction to Corrections Criminal Justice Elective (Recommend CRJ 212 or CRJ 214) 3

**THIRD SEMESTER**

CRJ 211  Criminal Law 3
CRJ 223  Ethics in Criminal Justice Criminal Justice Elective (Recommend CRJ 219 and CRJ 213) 6
HUM 127 or ART 149  Humanities or Fine Arts Elective (Recommend HUM 127 or ART 149) 3

**FOURTH SEMESTER**

CRJ 222  Juvenile Delinquency 3
CRJ 270  Criminal Justice Assessment Seminar 3
CRJ 221  Criminal Procedure Law Criminal Justice Elective (Recommend CRJ 224 or CRJ 227) 3
CRJ 215  Criminal Justice Elective (Recommend CRJ 230 or CRJ 248) 3

**ADDITIONAL CRJ COURSES**

SELECT FROM ALL OTHER CRJ COURSES AS WELL AS THE CRJ PROGRAM ELECTIVES LISTED BELOW

CRJ 220  Independent Research 3
CRJ 224  Institutional Corrections 3
CRJ 227  Community Based Corrections 3
CRJ 230  Principles of Courtroom Testimony 3
CRJ/PSY 248  Psychology of the Criminal Mind (cross-listed as PSY 248) 3
EWE 120  Job Readiness Skills 1
EWE 220  Cooperative Work Experience I 2
EWE 270  Cooperative Work Experience II 3
HUS 132  Trauma, Violence, and Prevention 3
HUS 140  Drugs and Society 3
HUS 234  Child Maltreatment 3
PLS 110  Introduction to Legal Studies 3
SOC 222  Social Problems 3
SOC 223  Being Different: The Sociology of Deviant Behavior 3
SWK 121  Introduction to Social Work 3

**CRIMINAL JUSTICE (Certificate) Plan 25CF**

**FIRST SEMESTER**

CRJ 121  Introduction to Criminal Justice 3
CRJ 123  Introduction to Criminology 3
PSY 121  Introduction to Psychology 3
Additional CRJ Courses* 6

**SECOND SEMESTER**

CRJ 221  Criminal Law 3
SOC 121  Introduction to Sociology 3
Additional CRJ Courses* 9

Total hours for Certificate 30

Gainful Employment Information: www.cclci.org/cejcr

For more information on recommended courses or program specific advising, contact the following faculty or the Business and Social Sciences Division at (847) 543-2047.

Javier Alonso | Chris Utecht | Jennifer Hulvat
EMERGENCY MEDICAL TECHNOLOGY
Biological and Health Sciences Division
Room B213, (847) 543-2042
www.clcillinois.edu/programs/emt

Degree: Associate in Applied Science, Emergency Medical Technology
Plan 21EA

This degree provides students with the knowledge and skills needed to gain employment as an emergency medical technician. Graduates of this program will be provided with a high degree of specialized emergency medical training and courses of general education designed to provide breadth of knowledge in a variety of fields, specific scientific knowledge, and additional communication skills.

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

FIRST SEMESTER 14-18
EMT 111 Emergency Medical Technician-Basic 7
BIO 111 Human Form and Function or
BIO 244 Anatomy and Physiology I and
BIO 245 Anatomy and Physiology II 4-8
ENG 120 Technical Composition I or
ENG 121 English Composition I 3

SECOND SEMESTER 12
EMT 114 Paramedic Clinical Practicum 3
EMT 115 Paramedic Field Experience Practicum 3
EMT 131 Introduction to Advanced Pre-hospital Care 4
EMT 132 Patient Assessment 2

THIRD SEMESTER 14
EMT 133 Medical Emergencies 5
EMT 134 Trauma Emergencies 3
EMT 135 Special Considerations and Operations 6

FOURTH SEMESTER 12
ANT 221 Cultural Anthropology or
ANT 228 Cross-Cultural Relationships or
PSY 121 Introduction to Psychology or
Social Science Elective 3
MTH 114 Applied Mathematics I or
MTH Elective (higher than MTH 114) 3
Humanities or Fine Arts Elective 3
(HUM 127, PHI 122 or PHI 125 recommended)
CMM Elective (CMM 111, 121, 122, 123 or 128 recommended) 3

FIFTH SEMESTER 10
HIT 111 Medical Terminology 3
HIT 119 Pharmacology 1
Electives 6

Total Hours for A.A.S. Degree 62-66

For more information on recommended courses or program specific advising, contact department chair, Carol Wismer at (847) 543-2142, or the Biological and Health Sciences division at (847) 543-2042.
Emergency medical technicians provide emergency medical care for illness and injury at the site and enroute to the hospital. They provide pre-hospital and inter-hospital emergency medical services and medical transport services at the basic life support level. Graduates are employed primarily by ambulance services, and by fire and rescue departments. Graduates will understand the emergency services system, the responsibilities of emergency services personnel, as well as assessment, stabilization, and initial pre-hospital medical treatment of injured and ill patients. Completion of this certificate prepares students to take the licensing examination to become an EMT-B (Emergency Medical Technician-Basic). Courses are offered at associated hospitals and fire/rescue departments in Lake County. Day and evening classes are available.

**FIRST SEMESTER**

**EMT 111**  
Emergency Medical Technician – Basic 7

**SECOND SEMESTER**

**EMT 114**  
EMP Paramedic - Clinical Practicum 3

**EMT 115**  
EMT Paramedic - Field Experience Practicum 3

**EMT 131**  
Introduction to Advanced Pre-hospital Care 4

**EMT 132**  
Patient Assessment 2

**THIRD SEMESTER**

**EMT 133**  
Medical Emergencies 5

**EMT 134**  
Trauma Emergencies 3

**EMT 135**  
Special Considerations and Operations 6

**TOTAL HOURS FOR CERTIFICATE**  
30-34

+ If BIO 124 has been taken, BIO 244 and BIO 245 are not needed. BIO 124 was last offered Summer 2009.

**EMERGENCY MEDICAL TECHNICIAN - PARAMEDIC**

(Certificate) Plan 21EP

Paramedics provide emergency medical care for illness and injury at site and enroute to the hospital. Paramedics are trained to provide pre-hospital and inter-hospital emergency medical services and medical transport services at the advanced life support level, including administration of intravenous lines, intubation, and defibrillation. Paramedics are employed primarily by fire and rescue departments and by ambulance services. Students entering this program already must have earned the EMT-B or EMT-I license. Completion of this certificate prepares students to take the licensing examination to become an EMT-P (Emergency Medical Technician-Paramedic). Courses are offered at associated hospitals in Lake County. Day and evening classes are available.

**FIRST SEMESTER**

**EMT 111**  
Emergency Medical Technician – Basic 7

**BIO 111**  
Human Form and Function or Anatomy and Physiology I and 4-8

**BIO 244+**  
Anatomy and Physiology II 4-8

**SECOND SEMESTER**

**EMT 114**  
EMP Paramedic - Clinical Practicum 3

**EMT 115**  
EMT Paramedic - Field Experience Practicum 3

**EMT 131**  
Introduction to Advanced Pre-hospital Care 4

**EMT 132**  
Patient Assessment 2

**THIRD SEMESTER**

**EMT 133**  
Medical Emergencies 5

**EMT 134**  
Trauma Emergencies 3

**EMT 135**  
Special Considerations and Operations 6

**TOTAL HOURS FOR CERTIFICATE**  
30-34

Note: All EMT classes are held at area hospitals or fire and rescue departments. Registration for classes, except EMT 111-300, is processed directly through the individual site hosting the class. Space is limited and classes fill up quickly. For more information, please contact one of the EMS coordinators listed below:

For more information on recommended courses or program specific advising, contact department chair, Carol Wismer at (847) 543-2142, or the Biological and Health Sciences division at (847) 543-2042:

**North Lake County EMS**

EMT-Basic (847) 360-2038

EMT-Paramedic  
Dave Chase (847) 360-2205

**Advocate Condell Medical Center**

EMT-Paramedic  
Teresa Boron (847) 990-5309

**NorthShore University HealthSystem/Highland Park Hospital**

EMT-Basic and EMT Paramedic  
Martha Pettineo (847) 480-3787

**Round Lake Fire Department**

EMT-Basic (EMT Department permission)  
Battalion Chief, Anthony Carraro (847) 546-2134

**Important Financial Aid Information**

EMT A.A.S. as well as EMT-Basic and EMT-Paramedic certificate programs are not eligible for Title IV aid. Only students who are eligible for benefits under the Illinois Veteran’s grant, Illinois National Guard, or MIA/POW or VA Federal Benefits may receive financial aid for these programs.
DEGREES/CERTIFICATES

FIRE SCIENCE TECHNOLOGY
Business and Social Sciences Division
Room T302, (847) 543-2047
www.clcillinois.edu/programs/fst

Degree: Associate in Applied Science,
Fire Science Technology
Plan 25FB

The Fire Science Technology Associate in Applied Science degree is designed to serve the needs of students in the Fire Service and to prepare others to enter the Fire Service.

Many of the Fire Science courses are recognized by the Office of the State Fire Marshall (OSFM) and students that are members of an Illinois fire department may be allowed to challenge the OSFM exam upon completion of the course. Students not members of an Illinois fire department may be allowed to challenge the OSFM end-of-course examination upon becoming a member of a recognized fire department in Illinois.

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

FIRST SEMESTER

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<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>HOURS</th>
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<td>ENG 120</td>
<td>Technical Composition I or English Composition I</td>
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<td>ENG 121</td>
<td>Introduction to Psychology</td>
<td>3</td>
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<tr>
<td>MTH 114</td>
<td>Applied Mathematics I or higher numbered mathematics course</td>
<td>3</td>
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<tr>
<td>CIT 119</td>
<td>Introduction to Office Software</td>
<td>3</td>
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<td>CIT 120</td>
<td>Introduction to Computers</td>
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<tr>
<td>FST 111</td>
<td>Introduction to Fire Service</td>
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SECOND SEMESTER

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<td>CMM 121</td>
<td>Fundamentals of Speech or Interviewing Practices</td>
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<td>CMM 128</td>
<td>Practical Aspects of Physics</td>
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<td>FST 180</td>
<td>Principles of Fire and Emergency Services, Safety and Survival Concentration/Elective #</td>
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THIRD SEMESTER

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<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 122</td>
<td>State and Local Politics</td>
<td>3</td>
</tr>
<tr>
<td>FST 177</td>
<td>Fire Prevention Principles I</td>
<td>3</td>
</tr>
<tr>
<td>FST 181</td>
<td>Fire Behavior and Combustion</td>
<td>3</td>
</tr>
<tr>
<td>FST 182</td>
<td>Building Construction for Fire Protection Concentration/Elective #</td>
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FOURTH SEMESTER

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>FST 179</td>
<td>Fire Protection Systems</td>
<td>3</td>
</tr>
<tr>
<td>FST 188</td>
<td>Concentration/Elective #</td>
<td>3</td>
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</table>

Total Hours for A.A.S. Degree 64

# A minimum of 21 credit hours of Concentration/Electives are required to fulfill this requirement.

FIRE SCIENCE ELECTIVES

SELECT 21 HOURS FROM THE LIST BELOW:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>HOURS</th>
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</thead>
<tbody>
<tr>
<td>FST 116</td>
<td>Fire Fighting Tactics and Strategy I</td>
<td>3</td>
</tr>
<tr>
<td>FST 117</td>
<td>Fire Fighting Tactics and Strategy II</td>
<td>3</td>
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<tr>
<td>FST 118</td>
<td>Incident Command</td>
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</tr>
<tr>
<td>FST 120</td>
<td>Introduction to Emergency Management</td>
<td>3</td>
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<tr>
<td>FST 173</td>
<td>Fire Instructor I</td>
<td>3</td>
</tr>
<tr>
<td>FST 174</td>
<td>Fire Instructor II</td>
<td>3</td>
</tr>
<tr>
<td>FST 192</td>
<td>Hazardous Materials Operations</td>
<td>3</td>
</tr>
<tr>
<td>FST 193</td>
<td>Fire Protection Hydraulics and Water Supply</td>
<td>3</td>
</tr>
<tr>
<td>FST 200</td>
<td>Terrorism and Homeland Security</td>
<td>3</td>
</tr>
<tr>
<td>FST 201</td>
<td>Fire Investigation I</td>
<td>3</td>
</tr>
<tr>
<td>FST 202</td>
<td>Fire Investigation II</td>
<td>3</td>
</tr>
<tr>
<td>FST 206</td>
<td>Occupational Safety and Health for Emergency Services</td>
<td>3</td>
</tr>
<tr>
<td>FST 217</td>
<td>Fire Officer Communications</td>
<td>3</td>
</tr>
<tr>
<td>FST 218</td>
<td>Fire Officer Supervision</td>
<td>3</td>
</tr>
<tr>
<td>FST 273</td>
<td>Fire Science Business and Operations</td>
<td>3</td>
</tr>
<tr>
<td>FST 274</td>
<td>Fire Administration and the Law</td>
<td>3</td>
</tr>
<tr>
<td>FST 279</td>
<td>Special Topics in Fire Service</td>
<td>3</td>
</tr>
<tr>
<td>EMT 111</td>
<td>Emergency Medical Tech-Basic</td>
<td>7</td>
</tr>
</tbody>
</table>
**FIREFIGHTER BASIC OPERATIONS**

*Degree: Associate in Applied Science, Firefighter Basic Operations Plan 25FC*

The Firefighter Basic Operations Associate in Applied Science degree is designed to serve the needs of students interested in obtaining the certifications/licenses required for an entry level position in the Fire Service. Students pursuing the A.A.S. degree are required to complete 25 credit hours of general education, 22 credit hours of Fire Science Technology core courses, and 15 hours of Fire Science Technology electives. There are two tracks to this degree. Students may choose the management (Fire Officer I) track or the non-management track.

Students will be required to provide approved personal protective safety equipment which may be purchased or leased. This equipment consists of firefighter turnouts (coat and pants), firefighting footwear, suspenders, gloves, hood, safety glasses, fire helmet, and self-contained breathing apparatus. All equipment must comply with current National Fire Protection Association (NFPA) Standards.

All students must have a valid NFPA 1001 medical physical and a current background investigation, and must consult with a Fire Science Technology adviser to plan and schedule their program.

**ADMISSION REQUIREMENTS**

To be admitted to this program the student must apply to the Department Chair. Approval will be approved based on conditions that include completion of the Firefighter Basic Operations application, proof of a valid Candidate Physical Ability Test (CPAT), successful completion of a background investigation that includes, but is not limited to the following: a criminal background investigation and fingerprinting; medical physical; provision of NFPA compliant personal protective equipment consisting of turnout coat, turnout pants, suspenders, footwear, hood, helmet, and gloves, provision of self-contained breathing apparatus facepiece that mates to College of Lake County (CLC) provided SCBA; and acknowledgment that the student will become a member of the Fire Department assigned by the college and the acknowledgment that they are required to provide scheduled staffing for the assigned Fire Department.

**HEALTH PHYSICAL**

Medical physical will meet NFPA Standard 1582, Chapter 6 (Standard on Comprehensive Occupational Medical Program for Fire Departments/Medical Evaluation of Candidates), including qualitative and quantitative respirator use evaluation.

To complete an A.A.S., students are *strongly encouraged* to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

**FIRST SEMESTER**

<table>
<thead>
<tr>
<th>CRN</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>ENG 120</td>
<td>Technical Composition I or</td>
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<tr>
<td></td>
<td>ENG 121</td>
<td>English Composition I</td>
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<td>3</td>
<td>PSY 121</td>
<td>Introduction to Psychology</td>
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<td>3</td>
<td>MTH 114</td>
<td>Applied Mathematics I or</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>higher numbered mathematics course</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>CIT 119</td>
<td>Introduction to Office Software or</td>
<td></td>
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<tr>
<td>3</td>
<td>CIT 120</td>
<td>Introduction to Computers</td>
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<td>3</td>
<td>FST 111</td>
<td>Introduction to Fire Service</td>
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**SECOND SEMESTER**

<table>
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<tbody>
<tr>
<td>17</td>
<td>CMM 121</td>
<td>Fundamentals of Speech or</td>
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<tr>
<td></td>
<td>CMM 128</td>
<td>Interviewing Practices</td>
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<td>7</td>
<td>EMT 111</td>
<td>Emergency Medical Tech-Basic</td>
<td></td>
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<tr>
<td>4</td>
<td>PHY 120</td>
<td>Practical Aspects of Physics</td>
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<tr>
<td>3</td>
<td>PSC 122</td>
<td>State and Local Politics</td>
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**THIRD SEMESTER**

<table>
<thead>
<tr>
<th>CRN</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>13</td>
<td>FST 130</td>
<td>Basic Operations Firefighter A</td>
<td>4</td>
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<tr>
<td></td>
<td></td>
<td>Humanities or Fine Arts</td>
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<tr>
<td></td>
<td>Elective * (with I/M designation, if needed)</td>
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<tr>
<td>6</td>
<td>Concentration/Elective #</td>
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**FOURTH SEMESTER**

<table>
<thead>
<tr>
<th>CRN</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>17</td>
<td>FST 131</td>
<td>Basic Operations Firefighter B</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Concentration/Elective #</td>
<td>9</td>
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<tr>
<td>15</td>
<td>FST 132</td>
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<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Concentration/Elective #</td>
<td>9</td>
</tr>
</tbody>
</table>

**Total Hours for A.A.S. Degree**

62

# A minimum of 15 credit hours of Concentration/Electives are required to fulfill this requirement.

**ELECTIVE COURSE SELECTION:**

Students must choose 15 elective hours based on their preferred concentration. Management students must take the 15 credit hours listed in the Management block of elective courses. Non-management students will choose from the Non-Management block of elective courses, which includes some management courses.

**BASIC FIREFIGHTER OPERATIONS ELECTIVES FOR MANAGEMENT**

<table>
<thead>
<tr>
<th>CRN</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>FST 116</td>
<td>Fire Fighting Tactics Strat I</td>
<td>3</td>
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<tr>
<td></td>
<td>FST 173</td>
<td>Fire Instructor I</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>FST 177</td>
<td>Fire Prevention Principles I</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>FST 200</td>
<td>Terrorism and Homeland Security</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>FST 217</td>
<td>Fire Officer Communications</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>FST 218</td>
<td>Fire Officer Supervision</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>FST 279</td>
<td>Special Topics Fire Service</td>
<td></td>
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</table>

**BASIC FIREFIGHTER OPERATIONS ELECTIVES FOR NON-MANAGEMENT**

<table>
<thead>
<tr>
<th>CRN</th>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>FST 116</td>
<td>Fire Fighting Tactics and Strategy I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>FST 173</td>
<td>Fire Instructor I</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>FST 177</td>
<td>Incidence Command</td>
<td>3</td>
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<tr>
<td>3</td>
<td>FST 180</td>
<td>Principles of Fire and Emergency Services, Safety and Survival</td>
<td>3</td>
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<tr>
<td></td>
<td>FST 192</td>
<td>Hazardous Materials Operations</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>FST 193</td>
<td>Fire Protection Hydraulics and Water Supply</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>FST 200</td>
<td>Terrorism and Homeland Security</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>FST 201</td>
<td>Fire Investigation I</td>
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<tr>
<td></td>
<td>FST 202</td>
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<td>FST 206</td>
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<td>FST 217</td>
<td>Fire Officer Communications</td>
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<td>FST 218</td>
<td>Fire Officer Supervision</td>
<td>3</td>
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<tr>
<td>3</td>
<td>FST 273</td>
<td>Fire Science Business and Operations</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>FST 274</td>
<td>Fire Administration and the Law</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>FST 279</td>
<td>Special Topics in Fire Service</td>
<td></td>
</tr>
</tbody>
</table>

For more information on recommended courses or program specific advising, contact the Business and Social Sciences Division at (847) 543-2047:
LEGAL STUDIES
Business and Social Sciences Division
Room T302, (847) 543-2047
www.clcillinois.edu/programs/pls

Degree: Associate in Applied Science, Legal Studies
Plan 22PA

The Legal Studies program prepares students to perform substantive and procedural legal work under the supervision of an attorney. Paralegals work in many different areas of law within the public and private sectors, and assist attorneys in the delivery of efficient and cost-effective legal services. The purpose of the program is to prepare students for successful, productive employment and contributions to the legal and business fields. The program provides the foundation for students to think critically and ethically in performing specifically delegated substantive legal work for which a lawyer is responsible. This program is approved by the American Bar Association. ABA guidelines limit the use of online and blended courses for paralegal education. Thus, no Legal Studies degree or certificate will be issued unless at least 10 credit hours of Legal Studies coursework has been completed in a traditional delivery (face-to-face) format.

Accelerated Option: Student who completed ENG 121 or the equivalent OR with Department Chair Consent can enroll in PLS 110 and PLS 112.

Legal Studies Program Policy on Auditing PLS Courses: Auditing PLS courses is only permitted by students who meet course prerequisites and who are currently employed as paralegals in the field of law that is the topic of the course requested to audit. Students seeking to audit a PLS course must obtain consent of the department chair.

Legal Studies Electives:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Third semester</th>
<th>Fourth semester</th>
<th>Fifth semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 221</td>
<td>Business Law I</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td>CRI 121</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRJ 230</td>
<td>Principles of Courtroom Testimony</td>
<td>3</td>
<td></td>
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</tr>
<tr>
<td>PLS 114</td>
<td>Litigation</td>
<td>3</td>
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</tr>
<tr>
<td>PLS 116</td>
<td>Contract Law+</td>
<td>3</td>
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<tr>
<td>PLS 210</td>
<td>Tort Law+</td>
<td>3</td>
<td></td>
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</tr>
<tr>
<td>PLS 211</td>
<td>Drafting Legal Documents</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLS 218</td>
<td>Bankruptcy Law</td>
<td>3</td>
<td></td>
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<tr>
<td>PLS 230</td>
<td>Family Law</td>
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<tr>
<td>PLS 231</td>
<td>Health Care Law</td>
<td>3</td>
<td></td>
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<td>PLS 232</td>
<td>Probate Law</td>
<td>3</td>
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<tr>
<td>PLS 233</td>
<td>Criminal Litigation</td>
<td>3</td>
<td></td>
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<tr>
<td>PLS 234</td>
<td>Elder Law</td>
<td>3</td>
<td></td>
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<tr>
<td>PLS 235</td>
<td>Law Office Technology</td>
<td>3</td>
<td></td>
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<tr>
<td>PLS 236</td>
<td>Alternative Dispute Resolution</td>
<td>3</td>
<td></td>
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<tr>
<td>PLS 250</td>
<td>Internship in Legal Studies++</td>
<td>3</td>
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<tr>
<td>PLS 299</td>
<td>Topics in Legal Studies</td>
<td>1-6</td>
<td></td>
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</tbody>
</table>

Total Hours for A.A.S. Degree 63

LEGAL STUDIES ELECTIVES
SELECT 12 HOURS FROM THE LIST BELOW:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Third semester</th>
<th>Fourth semester</th>
<th>Fifth semester</th>
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<tbody>
<tr>
<td>BUS 221</td>
<td>Business Law I</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRI 121</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
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<tr>
<td>CRJ 230</td>
<td>Principles of Courtroom Testimony</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLS 114</td>
<td>Litigation</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLS 116</td>
<td>Contract Law+</td>
<td>3</td>
<td></td>
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<tr>
<td>PLS 210</td>
<td>Tort Law+</td>
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<td></td>
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<td>PLS 211</td>
<td>Drafting Legal Documents</td>
<td>3</td>
<td></td>
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<td>PLS 218</td>
<td>Bankruptcy Law</td>
<td>3</td>
<td></td>
<td></td>
</tr>
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<td>PLS 230</td>
<td>Family Law</td>
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<tr>
<td>PLS 231</td>
<td>Health Care Law</td>
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<td>PLS 233</td>
<td>Criminal Litigation</td>
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<tr>
<td>PLS 234</td>
<td>Elder Law</td>
<td>3</td>
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<tr>
<td>PLS 235</td>
<td>Law Office Technology</td>
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<tr>
<td>PLS 236</td>
<td>Alternative Dispute Resolution</td>
<td>3</td>
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<tr>
<td>PLS 250</td>
<td>Internship in Legal Studies++</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td>PLS 299</td>
<td>Topics in Legal Studies</td>
<td>1-6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* PLS 270 must be reserved for the final semester prior to graduation and should not be taken prior to the final semester.
+ PLS 116, PLS 118, PLS 210 may be taken in any order.
++ PLS 250 and PLS 251 should be reserved for the final semester prior to graduation.
The Legal Studies certificate prepares students to perform substantive and procedural legal work under the supervision of an attorney. Paralegals work in many different areas of law within the public and private sectors, and assist attorneys in the delivery of efficient and cost-effective legal services. The required certificate courses focus on the specific knowledge and skills needed by paralegals in all areas. The elective courses enable students to gain additional knowledge in the legal specialty areas of greatest interest to them. The certificate program is available only to students who already have an Associate’s or Bachelor’s degree. This program is approved by the American Bar Association. ABA guidelines limit the use of online and blended courses for paralegal education. Thus, no Legal Studies degree or certificate will be issued unless at least 10 credit hours of Legal Studies coursework has been completed in a traditional delivery (face-to-face) format.

**LEGAL STUDIES CERTIFICATE ELECTIVES**

From the list below, select 9 credit hours:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BUS 221</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 121</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRJ 230</td>
<td>Principles of Courtroom and Testimony</td>
<td>3</td>
</tr>
<tr>
<td>PLS 116</td>
<td>Contract Law</td>
<td>3</td>
</tr>
<tr>
<td>PLS 118</td>
<td>Real Property Law</td>
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<tr>
<td>PLS 210</td>
<td>Tort Law</td>
<td>3</td>
</tr>
<tr>
<td>PLS 212</td>
<td>Business Law II/Corporate and Securities Law</td>
<td>3</td>
</tr>
<tr>
<td>PLS 213</td>
<td>Employment and Labor Law</td>
<td>3</td>
</tr>
<tr>
<td>PLS 214</td>
<td>Administrative Agency Law</td>
<td>3</td>
</tr>
<tr>
<td>PLS 215</td>
<td>Immigration Law</td>
<td>3</td>
</tr>
<tr>
<td>PLS 216</td>
<td>Intellectual Property</td>
<td>3</td>
</tr>
<tr>
<td>PLS 218</td>
<td>Bankruptcy Law</td>
<td>3</td>
</tr>
<tr>
<td>PLS 230</td>
<td>Family Law</td>
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<tr>
<td>PLS 231</td>
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<td>PLS 234</td>
<td>Elder Law</td>
<td>3</td>
</tr>
<tr>
<td>PLS 235</td>
<td>Law Office Technology</td>
<td>3</td>
</tr>
<tr>
<td>PLS 236</td>
<td>Alternative Dispute Resolution</td>
<td>3</td>
</tr>
<tr>
<td>PLS 250</td>
<td>Internship in Legal Studies++</td>
<td>3</td>
</tr>
<tr>
<td>PLS 299</td>
<td>Topics in Legal Studies 1-6</td>
<td>3</td>
</tr>
</tbody>
</table>

* PLS 270 must be reserved for the final semester prior to graduation and should not be taken prior to the final semester.

**SECOND SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLS 112</td>
<td>Legal Research and Writing I Litigation</td>
<td>3</td>
</tr>
<tr>
<td>PLS 114</td>
<td>Legal Studies Elective</td>
<td>3</td>
</tr>
<tr>
<td>AOS 112</td>
<td>Computer Basics/Software Applications</td>
<td>3</td>
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</table>

**THIRD SEMESTER**

<table>
<thead>
<tr>
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<tr>
<td>PLS 211</td>
<td>Legal Studies Elective</td>
<td>3</td>
</tr>
<tr>
<td>PLS 251</td>
<td>Legal Studies Capstone++</td>
<td>3</td>
</tr>
<tr>
<td>PLS 270</td>
<td>Legal Assessment Seminar*</td>
<td>3</td>
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</tbody>
</table>

**FIRST SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLS 110</td>
<td>Introduction to Legal Studies</td>
<td>3</td>
</tr>
<tr>
<td>CIT 119</td>
<td>Introduction to Office Software or</td>
<td>3</td>
</tr>
<tr>
<td>AOS 112</td>
<td>Computer Basics/Software Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total hours for Certificate** 30

For students with A.A.S. degrees and students with any degree from an institution outside the U.S.:

The CLC Legal Studies program is approved by the American Bar Association (ABA). The ABA requires that all students who wish to complete a Legal Studies Certificate program have completed a minimum of 18 semester credit hours in general education courses in a minimum of three disciplines.

The requirements for all Associate in Arts, Associate in Science, Bachelor of Arts, or Bachelor of Science degrees at accredited U.S. institutions include this level of general education. These disciplines are Social and Behavioral Sciences, Natural Science, English Composition and Literature, Foreign Language, Mathematics, Humanities and Fine Arts. Since master’s degree programs do not usually include general education courses, master’s level courses cannot be used to meet this requirement.

The general education courses completed by students who have earned Associate in Applied Science degrees and other degrees from non-U.S. institutions may not meet CLC’s general education requirements. These students will be required to complete additional general education courses prior to receiving a certificate in Legal Studies if they have not had a sufficient number and variety of general education courses.

Therefore, CLC must review students’ transcripts to determine whether they have met this general education requirement. To obtain the form, please visit dept.clcillinois.edu/adr/LGL_Screening_Form.pdf.

Gainful Employment Information:

www.clcillinois.edu/gepl

For more information on recommended courses or program specific advising, contact the following faculty members or the Business and Social Sciences Division at (847) 543-2047:

Gayle Miller | Lorri Scott
MANUFACTURING, ENGINEERING AND ADVANCED TECHNOLOGIES

DEGREES/CERTIFICATES

AUTOMATION, ROBOTICS AND MECHATRONICS
AUTOMOTIVE COLLISION REPAIR
AUTOMOTIVE TECHNOLOGY
CAD-DRAFTING TECHNOLOGY
COMPUTER SCIENCE
CNC PROGRAMMING
ELECTRICAL ENGINEERING TECHNOLOGY
ELECTRICIAN APPRENTICESHIP
ENGINEERING AND COMPUTER SCIENCE
HVAC ENGINEERING TECHNOLOGY
LASER/PHOTONICS/OPTICS
MACHINE TOOL TRADES
MECHANICAL ENGINEERING TECHNOLOGY
WELDING

I WANT TO TRANSFER TO A FOUR-YEAR COLLEGE OR UNIVERSITY.
The Associate in Arts (A.A.), Associate in Science (A.S.) or other specially focused transfer degrees will probably be your best bet.

• Associate in Arts (A.A.) degree – typically ranges from 60-64 credit hours and should parallel the first two years of a liberal arts-related baccalaureate degree program.

• Associate in Science (A.S.) degree – typically ranges from 60-64 credit hours and should parallel the first two years of a science-related baccalaureate degree program.

There are other specialized Associate’s transfer degrees in Engineering and Fine Arts (Art and Music).

Some colleges will accept credits earned through an Associate in Applied Science (A.A.S) but it would be best to confirm with the school you plan to attend next.

Whatever your plan, it is best to think about what college and major you would like to transfer to and design your coursework around the requirements of that institution. Student development counselors are experts on transfer planning and are happy to help!

I WANT TO START WORKING IN MY CHOSEN FIELD.
The Associate in Applied Science (A.A.S) is a degree designed to help students get into their chosen careers with the knowledge and skills needed by specific industries. These programs were created to provide tangible abilities in a field so that you can either find a job or upgrade your current job when you leave CLC.

Many programs also offer short-term certificates that can help get you into the workforce quickly. These certificates may cover a specific proficiency or technical ability to give you a jumpstart in the field. Many can be stacked together to work toward a degree.

• Associate in Applied Science (A.A.S.) degree – typically ranges from 60-72 credit hours and focuses on real-world career skills.

• Career Certificates – typically range from 9-30 credit hours and focus on a specialized skill.

I AM NOT REALLY SURE WHAT I WANT TO DO NEXT.
That is okay! At CLC, there are many people such as student development counselors, career counselors, academic advisors, and faculty who can help you discover your path. Page 21 has contact information for the people that can help. If you would like to discuss career interests or talk to someone about taking classes that could work for many degree or certificate options, stop by the Counseling, Advising, and Transfer Center.

This catalog is organized by fields of interest. Reading through this information may help spur an idea for you to explore further. For example, you may be interested in the Healthcare field; the Wellness and Health Sciences field of interest offers many options for you to consider.
WHAT IS YOUR PLAN AFTER CLC?

I WANT TO TRANSFER TO A FOUR-YEAR COLLEGE OR UNIVERSITY.

The Associate in Arts (A.A.), Associate in Science (A.S.) or other specially focused transfer degrees will probably be your best bet.

- **Associate in Arts (A.A.) degree** - typically ranges from 60-64 credit hours and should parallel the first two years of a liberal arts-related baccalaureate degree program.
- **Associate in Science (A.S.) degree** - typically ranges from 60-64 credit hours and should parallel the first two years of a science-related baccalaureate degree program.
- There are other specialized Associate's transfer degrees in Engineering and Fine Arts (Art and Music).

Some colleges will accept credits earned through an Associate in Applied Science (A.A.S.) but it would be best to confirm with the school you plan to attend next.

Whatever your plan, it is best to think about what college and major you would like to transfer to and design your coursework around the requirements of that institution. Student development counselors are experts on transfer planning and are happy to help!

I WANT TO START WORKING IN MY CHOSEN FIELD.

The Associate in Applied Science (A.A.S) is a degree designed to help students get into their chosen careers with the knowledge and skills needed by specific industries. These programs were created to provide tangible abilities in a field so that you can either find a job or upgrade your current job when you leave CLC.

Many programs also offer short-term certificates that can help get you into the workforce quickly. These certificates may cover a specific proficiency or technical ability to give you a jumpstart in the field. Many can be stacked together to work toward a degree.

- **Associate in Applied Science (A.A.S.) degree** – typically ranges from 60-72 credit hours and focuses on real-world career skills.
- **Career Certificates** – typically range from 9-30 credit hours and focus on a specialized skill.

I AM NOT REALLY SURE WHAT I WANT TO DO NEXT.

That is okay! At CLC, there are many people such as student development counselors, career counselors, academic advisors, and faculty who can help you discover your path. Page 21 has contact information for the people that can help. If you would like to discuss career interests or talk to someone about taking classes that could work for many degree or certificate options, stop by the Counseling, Advising, and Transfer Center.

This catalog is organized by fields of interest. Reading through this information may help spur an idea for you to explore further. For example, you may be interested in the Healthcare field; the Wellness and Health Sciences field of interest offers many options for you to consider.
ASSOCIATE IN ENGINEERING SCIENCE (12AB)

This program is recommended for students pursuing a B.S. in Engineering, including any of the various engineering disciplines (e.g., mechanical, electrical, civil, aeronautical, materials, agricultural, biomedical, chemical, and computer, etc.). The program parallels the first two years of engineering programs at most universities accredited by the Accrediting Board for Engineering and Technology (ABET). Four year schools offering a B.S. in Engineering include the University of Illinois at Chicago (UIC), Northern Illinois University (NIU), University of Illinois at Urbana-Champaign (UIUC), Illinois Tech (IIT), Bradley, Southern Illinois University (SIU), Northwestern University, Milwaukee School of Engineering (MSOE), Marquette, Purdue, and more. Upon completion of minimum transfer requirements (which vary by four-year school), CLC Engineering students can transfer to complete their B.S. degree at a four-year college or university.

This program is also appropriate for students pursuing a B.S. in Computer Science with an engineering focus. Four-year schools offering a B.S. in Computer Science with an engineering focus include University of Illinois at Chicago (UIC), University of Illinois at Urbana-Champaign (UIUC College of Engineering), Illinois Tech (IIT), Southern Illinois University at Carbondale (SIUC) and Southern Illinois University at Edwardsville (SIUE). Students desiring a B.A. or B.S. in Computer Science with a math or liberal arts focus may want to pursue the program of study recommended under Computer Science (Associate in Science) on page 173.

Since minor differences in course requirements exist at different universities and in different engineering disciplines within the same university, students are strongly advised to meet with a faculty advisor from the Engineering Department or a CLC student development counselor, and consult the college catalog and an engineering advisor at their intended transfer institution.

COMMUNICATION - 6 CREDIT HOURS
A grade of C or better is required for both ENG courses.

- **ENG 121** English Composition I (3) C1 900
- **ENG 122** English Composition II (3) C1 901 R OR
- **ENG 126** Advanced Composition: Scientific and Technical Communications (3) C1 901 R

SOCIAL/BEHAVIORAL SCIENCES, HUMANITIES AND FINE ARTS - 9 CREDIT HOURS
Select courses from three different disciplines (i.e., different prefixes). At least one course must be selected from the Social and Behavioral Sciences section and one course from either the Humanities or Fine Arts section.

**SOCIAL AND BEHAVIORAL SCIENCES**
- **ANT 121+** Introduction to Anthropology (3) S1 900N
- **ANT 122** Introduction to Physical Anthropology (3) S1 901N
- **ANT 122** Introduction to Archaeology (3) S1 903
- **ANT 224** Principles of Macroeconomics (3) S3 902
- **ANT 222** Cultural Geography (3) S4 900N
- **ANT 225** World Regional Geography (3) S4 900N
- **HST 121+** History of Western Civilization to 1500 (3) S2 902
- **HST 122+** History of Western Civilization 1500 to Present (3) S2 903
- **HST 126+** History of Contemporary Non-Western Civilization (3) S2 905N
- **HST 127+** History of Chinese Culture and Society (3) S2 920N
- **HST 221** United States History to 1876 (3) S2 900
- **HST 222** United States History 1876 to Present (3) S2 901
- **HST 245** History of Latin America (3) S2 920N
- **HST 246** History of Latin America from 1825 (3) S2 920N
- **PSC 121** American National Politics (3) S5 900
- **PSC 122** State and Local Politics (3) S5 902
- **PSC 221** Comparative Political Systems (3) S5 905
- **PSC 222** International Relations (3) S5 904N
- **PSY 121** Introduction to Psychology (3) S6 900
- **PSY 220** Lifespan Development (3) S6 902
- **PSY 222** Child Growth and Development (3) S6 903
- **PSY 225** Social Psychology (3) S8 900
- **PSY 226** Adolescent Psychology (3) S6 904

**HUMANITIES**
- **ARA 222+** Intermediate Modern Standard Arabic II (4) H1 900
- **CHI 222+** Intermediate Chinese II (4) H1 900
- **ENG 129+** Women in Literature (3) H3 911D
- **ENG 223** Early American Literature (3) H3 914
- **ENG 225** Survey of British Literature I (3) H3 912
- **ENG 226** Survey of British Literature II (3) H3 913
- **ENG 227** Introduction to Shakespeare (3) H3 905
- **ENG 228+** World Literature (3) H3 906
- **ENG 229** 20th Century American Literature (3) H3 915
- **ENG 241** Introduction to Poetry (3) H3 903
- **ENG 243** Introduction to Fiction (3) H3 901
- **ENG 244+** Mythology and Fairy Tales (3) H9 001
- **ENG 246+** Latin American Writers (3) H3 908N
- **ENG 247+** International Women Writers (3) H3 911D
- **FRN 222+** Intermediate French II (4) H1 900
- **FRN 223** French Civilization I (3) H1 900
- **FRN 224** French Civilization II (3) H1 900
- **GER 222+** Intermediate German II (4) H1 900
- **GER 223** German Civilization I (3) H1 900
- **GER 224** German Civilization II (3) H1 900
- **HUM 121+** Humanities: Ancient Times to the Middle Ages (3) HF 902
- **HUM 122+** Humanities: Renaissance to the Present (3) HF 903
- **HUM 127** Critical Thinking (3) H4 906
- **HUM 128+** Introduction to Middle-Eastern Civilizations (3) H2 903 N
- **HUM 129+** Introduction to East Asian Civilization (3) HF 904 N
- **HUM 141+** World Humanities 20/21st Century (3) HF 904 N
- **HUM 221+** American Decades (3) HF 906D

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15 CREDIT HOURS

PHYSICAL AND LIFE SCIENCES - 15 CREDIT HOURS

- CHM 121L (LAB) General Chemistry I (5) P1 902L

FINE ARTS

- ART 121 Introduction to Art (3) F2 900
- ART 241+ History of Art I (3) F2 901
- ART 260 History of Photography (3) F2 904

OTHER GRADUATION REQUIREMENTS

- Cumulative CLC GPA of 2.00 or higher
- Completion of at least 15 credit hours at CLC

Petition to Graduate: The Petition to Graduate form must be submitted to the Welcome and One-Stop Center to have your degree processed. It can be found online at www.cclnc.edu/petition. Contact Admissions for more information at (847) 543-2061. Deadlines to Petition: Fall – October 1; Spring – February 15; Summer – July 1; Fall – October 1

DEGREES/CERTIFICATES
ASSOCIATE IN SCIENCE (11AB)

The Associate in Science degree is designed to parallel the first two years of a science-related baccalaureate degree program. Students complete freshman and sophomore level courses in such areas as biology, chemistry, physics and related professional fields. Since differences in course requirements exist at different universities and in different science disciplines within the same university, it is important that students work closely with a CLC student development counselor and their transfer school to choose appropriate courses. Completion of the A.S. degree does not fulfill the requirements of the Illinois Articulation Initiative General Education Core Curriculum (IAI GECC).

Many science majors are highly structured and require extensive sequential lower-division mathematics and science courses. In order to take courses required for the major in a similar pattern to those of the freshman and sophomore students at a university, some general education courses are postponed until after transfer. Students then either complete the general education requirements of the transfer institution or are given the opportunity to complete the IAI.

COMMUNICATION - 9 CREDIT HOURS
A grade of C or better is required for both ENG courses.

☐ CMM 121 Fundamentals of Speech (3) C2 900
☐ ENG 121 English Composition I (3) C1 900
☐ ENG 122 English Composition II (3) C1 901 R OR C1 901 R
☐ ENG 126 Advanced Composition: Scientific and Technical Communications (3) C1 901 R

SOCIAL AND BEHAVIORAL SCIENCE - 6 CREDIT HOURS
Select courses from at least two different disciplines i.e. different prefixes.

☐ ANT 121+ Introduction to Anthropology (3) S1 900N
☐ ANT 221+ Cultural Anthropology (3) S1 901N
☐ ANT 222 Introduction to Physical Anthropology (3) S1 902
☐ ANT 224 Introduction to Archaeology (3) S1 903
☐ ANT 228+ Cross-Cultural Relationships (3) S1 904D
☐ ECO 221 Principles of Macroeconomics (3) S3 901
☐ ECO 222 Principles of Microeconomics (3) S3 902
☐ GEG 122 Cultural Geography (3) S4 900N
☐ GEG 123 World Regional Geography (3) S4 900N
☐ GXS 121+ Introduction to Gender Studies (3) S9 900
☐ GXS 229+ Sex, Gender, and Power (3) S7 904D
☐ HST 121+ History of Western Civilization to 1500 (3) S2 902
☐ HST 122+ History of Western Civilization 1500 to Present(3) S2 903
☐ HST 126+ History of Contemporary Non-Western Civilization (3) S2 905N
☐ HST 127+ History of Chinese Culture and Society (3) S2 920N
☐ HST 221 United States History to 1876 (3) S2 900
☐ HST 222 United States History 1876 to Present (3) S2 901
☐ HST 245+ History of Latin America to 1825 (3) S2 920N
☐ HST 246+ History of Latin America from 1825 (3) S2 920N
☐ PSC 121 American National Politics (3) S5 900
☐ PSC 122 State and Local Politics (3) S5 902
☐ PSC 221+ Comparative Political Systems (3) S5 904N
☐ PSC 222+ International Relations (3) S5 904N
☐ PSY 121 Introduction to Psychology (3) S6 900
☐ PSY 220 Life Span Development (3) S6 902
☐ PSY 222 Child Growth and Development (3) S6 903
☐ PSY 225 Social Psychology (3) S8 900
☐ PSY 226 Adolescent Psychology (3) S6 904
☐ SOC 121 Introduction to Sociology (3) S7 900
☐ SOC 222 Social Problems (3) S7 901
☐ SOC 224 Sociology of the Family (3) S7 902
☐ SOC 225+ Class, Race, and Gender (3) S7 903D
☐ SOC 229+ Sex, Gender, and Power (3) S7 904D

PHYSICAL AND LIFE SCIENCES - 11 CREDIT HOURS
One course must be selected from Physical Science and one course from Life Science. Both courses must be IAI and laboratory science courses (L). A third course should be selected from the Physical Science course list or the Life Science course list or the Additional Science course list.

☐ CHM 120L (LAB) Chemical Concepts (4) P1 902L
☐ CHM 121L (LAB) General Chemistry I (5) P1 902L
☐ CHM 142L (LAB) Chemistry for a Changing World (4) P1 903L
☐ ESC 120L (LAB) Earth Science (4) P1 905L
☐ ESC 121L (LAB) Physical Geology (4) P1 907L
☐ ESC 127L (LAB) Introduction to Meteorology (4) P1 905L
☐ ESC 140L (LAB) Introduction to Astronomy (4) P1 906L
☐ GEG 120L (LAB) Physical Geography (4) P1 909L
☐ PHY 120L (LAB) Practical Aspects of Physics (4) P1 901L
☐ PHY 121L (LAB) General Physics I (5) P1 900L
☐ PHY 123L (LAB) Physics for Science and Engineering I (5) P2 900L

LIFE SCIENCE
☐ BIO 120L (LAB) Environmental Biology (4) L1 905L
☐ BIO 123L (LAB) Principles of Biology (4) L1 900L
☐ BIO 141L (LAB) Concepts of Biology (4) L1 900L
☐ BIO 161L (LAB) General Biology I (4) L1 910L

ADDITIONAL SCIENCE COURSE LIST
Any BIO, CHM, ESC, GEG, HRT or PHY course with a 1.1 PCS code, excluding GEG 122 and GEG 123. The PCS code for each course is listed in the course descriptions starting on page 263 of this catalog.

MATHEMATICS - 7 CREDIT HOURS
One course MUST be selected from the courses with an IAI number (shown in bold) in order to meet CLC graduation requirements.

☐ MTH 121 Mathematics for Elementary Teaching (3)
☐ MTH 122 College Algebra (4)
☐ MTH 123 Trigonometry
☐ MTH 127 Finite Mathematics I (3) M1 906
☐ MTH 144 Precalculus (5)
☐ MTH 145 Calculus and Analytic Geometry I (5) M1 900-1
☐ MTH 146 Calculus and Analytic Geometry II (4) M1 900-2
☐ MTH 221 Mathematics for Elementary Teaching II (3) M1 903
☐ MTH 222 Business Statistics (4) M1 902
**HUMANITIES AND FINE ARTS – 6 CREDIT HOURS**

At least one course must be selected from the Humanities section and one course from the Fine Arts section.

### HUMANITIES

- **ARA 222**
  - Intermediate Modern Standard Arabic II (4) H1 900
- **Chi 222**
  - Intermediate Chinese II (4) H1 900
- **Eng 129**
  - Women in Literature (3) H1 910
- **Eng 223**
  - Early American Literature (3) H1 911D
- **Eng 225**
  - Survey of British Literature I (3) H1 912
- **Eng 226**
  - Survey of British Literature II (3) H1 913
- **Eng 227**
  - Introduction to Shakespeare (3) H1 905
- **Eng 228**
  - World Literature (3) H1 906
- **Eng 229**
  - 20th Century American Literature (3) H1 915
- **Eng 241**
  - Introduction to Poetry (3) H1 903
- **Eng 243**
  - Introduction to Fiction (3) H1 901
- **Eng 244**
  - Mythology and Fairy Tales (3) H1 901
- **Eng 246**
  - Latin American Writers (3) H1 908N
- **Eng 247**
  - International Women Writers (3) H1 911D
- **Eng 249**
  - Children's Literature (3) H1 918
- **Frn 222**
  - Intermediate French II (4) H1 900
- **Frn 223**
  - French Civilization I (3) H1 900
- **Frn 224**
  - French Civilization II (3) H1 900
- **Ger 222**
  - Intermediate German II (4) H1 900
- **Ger 224**
  - German Civilization II (3) H1 900
- **Hum 121**
  - Humanities: Ancient Times to the Middle Ages (3) H1 903
- **Hum 122**
  - Humanities: Renaissance to the Present (3) H1 903
- **Hum 127**
  - Critical Thinking (3) H1 903
- **Hum 128**
  - Introduction to Middle-Eastern Civilizations (3) H2 903
- **Hum 129**
  - Introduction to East Asian Civilization (3) H2 904
- **Hum 141**
  - World Humanities 20/21 Century (3) H2 904
- **Hum 221**
  - American Decades (3) H3 906D
- **Hum 226**
  - Women and the Arts (3) H3 907D
- **Itl 222**
  - Intermediate Italian II (4) H1 900
- **Itl 223**
  - Italian Civilization I (3) H1 900
- **Jpn 222**
  - Intermediate Japanese II (4) H1 900
- **Phi 121**
  - Introduction to Philosophy (3) H4 900
- **Phi 123**
  - Logic (3) H4 906
- **Phi 125**
  - Philosophy of Religion (3) H4 905
- **Phi 126**
  - Introduction to Ethics (3) H4 905
- **Phi 221**
  - World Religions (3) H5 904N
- **Rus 222**
  - Intermediate Russian II (4) H1 900
- **Spa 222**
  - Intermediate Spanish II (4) H1 900
- **Spa 223**
  - Spanish Civilization I (3) H1 900
- **Spa 224**
  - Spanish Civilization II (3) H1 900

### FINE ARTS

- **Dnc 240**
  - The Art of Dance (3) F1 906
- **Hum 121**
  - Humanities: Ancient Times to the Middle Ages (3) H1 903
- **Hum 122**
  - Humanities: Renaissance to the Present (3) H1 903
- **Hum 123**
  - Introduction to Film (3) F2 908
- **Hum 126**
  - Introduction to East Asian Civilization (3) H1 905
- **Hum 140**
  - Introduction to Film (3) F2 909
- **Hum 141**
  - World Humanities 20/21 Century (3) H1 904
- **Hum 221**
  - American Decades (3) H2 906D
- **Hum 226**
  - Women and the Arts (3) H2 907D
- **Mus 124**
  - Music Appreciation (3) F1 900
- **Mus 224**
  - Music Literature (3) F1 902
- **The 121**
  - Introduction to Theatre I (3) F1 907
- **The 123**
  - Diversity in American Theatre (3) F1 909D

### INTERNATIONAL/MULTICULTURAL REQUIREMENTS

Include one course in International/Multicultural Education—Choose one course with a + following the course number.

### AREA OF CONCENTRATION/ELECTIVE REQUIREMENTS - 21 CREDIT HOURS

- Choose elective courses with a 1.1 (transfer course) PCS code that relate to your intended major. Students should choose electives only after consulting with an Advising Professional. The PCS code for each course is listed in the course descriptions starting on page 263 of this catalog.

  **Exception:** Up to six hours of courses with a 1.2 (career course) PCS code may be used as general electives in the degree. All 196 courses are exempt from this rule. Students should select these courses only after they have verified their transferability with their Advising Professional or the transfer institution. EDU 999 does not count toward this six-hour limit.

- Students may not receive credit towards degree for both CHM 140 and CHM 142, or both BIO 120 and BIO 140, or both ESC 123 and ESC 127.

- Students with credit for both MTH 122 and MTH 123 will not be given credit for MTH 144. Students may not receive credit towards degree for both (MTH 122 and MTH 144) or (MTH 123 and MTH 144).

Please review lists of recommended courses for individual programs of study listed on pages 58-262 in this catalog.

### OTHER GRADUATION REQUIREMENTS

- Cumulative CLC GPA of 2.00 or higher
- Completion of at least 15 credit hours at CLC

**Petition to Graduate:** The Petition to Graduate form must be submitted to the Welcome and One-Stop Center to have your degree processed. It can be found online at www.clcillinois.edu/petition. Contact Admissions for more information at (847) 543-2061. Deadlines to Petition: Spring – February 15; Summer – July 1; Fall – October 1

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**Total A.S. Degree Requirements**

60 credit hours

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2019-2020 College of Lake County Catalog 161
AUTOMATION, ROBOTICS AND MECHATRONICS
Engineering, Math and Physical Sciences Division, Room T302, (847) 543-2044 www.clcillinois.edu/programs/arm

The automation, robotics, and mechatronics field combines mechanics, electronics and computer technologies to create “smart” products that improve lives in countless ways. Mechatronics technicians help design, install, maintain and repair industrial equipment and a wide variety of appliances used in businesses and at home. These range from personal and industrial robots to artificial limbs, automatic teller machines (ATMs) and hybrid cars—just to name a few. A holder of an associate degree in Mechatronics can manage, investigate, repair and troubleshoot mechatronic and process control systems along with optimizing systems for efficiency and cost effectiveness. A mechatronics technician can work in workshops, design labs, production facilities, and in field service locations. Graduates of this program are hired in various settings as Mechatronics Technicians, Robotics Technicians, Electro-mechanical Technicians, Automation Technicians, Maintenance and Repair Technicians and Mechanical Engineering Technicians. Job skills include, but are not limited to: assembling and installing mechatronic tools and hardware systems; installing, implementing and modifying software tools used in mechatronics systems; using troubleshooting skills to identify, foresee, and prevent possible problems with a system; programming mechatronic modules and systems, especially Programmable Logic Controllers (PLCs); implementing PLC networks, including configuration and data transfer using bus systems; applying knowledge of process control technology to automated systems; and managing and influencing cost control and process efficiency procedures for automated systems.

AUTOMATION, ROBOTICS AND MECHATRONICS

Degree: Associate in Applied Science, Automation, Robotics and Mechatronics
Plan 24ZD
Pending Approval

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

FIRST SEMESTER

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tr>
<td>MET 299</td>
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<td>Special Topics: Communications</td>
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<td>ARM 111</td>
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<td>Fundamentals of High Tech Manufacturing III</td>
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<tr>
<td>ARM 116</td>
<td>Mechatronics Graphics I and</td>
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<td>ARM 117</td>
<td>Mechatronics Graphics II and</td>
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<td>ARM 153</td>
<td>Mechanical Systems III</td>
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<td>ARM 173</td>
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SECOND SEMESTER

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<tr>
<td>ARM 131</td>
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<tr>
<td>ARM 132</td>
<td>Robot Design and Construction II and</td>
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<tr>
<td>ARM 133</td>
<td>Robot Design and Construction III</td>
<td>3</td>
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<tr>
<td>ARM 155</td>
<td>STEM Workplace Professional Skills</td>
<td>1</td>
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<tr>
<td>ARM 174</td>
<td>Automation IV and</td>
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<tr>
<td>ARM 175</td>
<td>Automation V and</td>
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<td>ARM 176</td>
<td>Automation VI</td>
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<td>Pneumatics and Hydraulics I and</td>
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<td>ARM 192</td>
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<td>ARM 197</td>
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<td>ARM 242</td>
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<td>ARM 266</td>
<td>Advanced Motor Control</td>
<td>3</td>
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<tr>
<td>CMM 121</td>
<td>Fundamentals of Speech</td>
<td>3</td>
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<tr>
<td>ENG 121</td>
<td>English Composition I</td>
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<td>MTH 117</td>
<td>Technical Mathematics or Trigonometry</td>
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<td>MTH 123</td>
<td>Precalculus or Calculus and Analytic Geometry</td>
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<td>MTH 144</td>
<td>Social Sciences IAI Approved General Education Elective</td>
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<tr>
<td>MTH 145</td>
<td>Humanities and Fine Arts IAI Approved General Education Elective</td>
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</table>

Total Hours for A.A.S. Degree 63-65

### AUTOMATION AND ROBOTICS INTRODUCTORY (Certificate) Plan 24ZC

This certificate is designed for high school dual credit students in the area of mechatronics. The courses taught in this certificate are the first semester courses in the CLC Mechatronics certificate (24ZB). High school students will be able to transfer all of these courses to the CLC Mechatronics certificate and can complete the CLC Mechatronics certificate with one additional semester of full-time study at CLC.

#### FIRST SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ARM 111</td>
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<tr>
<td>ARM 112</td>
<td>Fundamentals of High Tech Manufacturing II and III</td>
<td>9</td>
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<td>ARM 113</td>
<td>Fundamentals of High Tech Manufacturing II and III</td>
<td>9</td>
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<tr>
<td>ARM 151</td>
<td>Mechanical Systems I and II</td>
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<td>ARM 152</td>
<td>Mechanical Systems II and III</td>
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<td>ARM 153</td>
<td>Mechanical Systems III and III</td>
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<td>ARM 157</td>
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<td>ARM 158</td>
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<td>ARM 159</td>
<td>Automation I and II</td>
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<td>ARM 160</td>
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<td>Pneumatics and Hydraulics I and II</td>
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<td>ARM 192</td>
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<td>ARM 193</td>
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<td>ARM 194</td>
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<td>ARM 195</td>
<td>Pneumatic and Hydraulic Systems Capstone</td>
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<tr>
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<td>Complete Systems Integration</td>
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</table>

Total Hours for Certificate 15

### MECHATRONICS TECHNOLOGY (Certificate) Plan 24ZB

#### FIRST SEMESTER

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<tr>
<td>MET 299</td>
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<td>ARM 111</td>
<td>Fundamentals of High Tech Manufacturing I and II and III</td>
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<td>ARM 112</td>
<td>Fundamentals of High Tech Manufacturing II and III</td>
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<td>ARM 151</td>
<td>Mechanical Systems I and II</td>
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<tr>
<td>ARM 152</td>
<td>Mechanical Systems II and III</td>
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<tr>
<td>ARM 153</td>
<td>Mechanical Systems III and III</td>
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<tr>
<td>ARM 154</td>
<td>Electrical Systems I and II</td>
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<td>ARM 155</td>
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<td>ARM 159</td>
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<tr>
<td>ARM 160</td>
<td>Machining Principles</td>
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Total Hours for Certificate 15

Gainful Employment Information: www.clcillinois.edu/gearm

For more information on recommended courses or program specific advising, contact faculty member Margie Porter at (847) 543-2904 or the Engineering, Math and Physical Sciences division at (847) 543-2044.
AUTOMOTIVE COLLISION REPAIR

Engineering, Math and Physical Sciences Division, Room T302, (847) 543-2044
www.clcillinois.edu/programs/acr

The Automotive Collision Repair program offers an Associate in Applied Science degree and four certificates. These programs will provide students with the entry-level skills needed to enter the collision repair industry. The certificates allow students to specialize in one or more areas of collision repair and prepare students for employment in the automotive body repair and painting industry. The courses use the I-Car curriculum and students have the opportunity to earn I-Car course credit. The program is certified in all four areas by NATEF (National Automotive Technicians Educations Foundation, Inc.). This is the highest level of certification that NATEF awards. NATEF was founded in 1983 as an independent, non-profit organization with a single mission: to evaluate technician training programs against standards developed by the automotive industry and recommend qualifying programs for certification (accreditation) by the National Institute for Automotive Service Excellence (ASE).

ACR Courses require basic hand tools and personal safety equipment.

AUTOMOTIVE COLLISION REPAIR: NON-STRUCTURAL REPAIR SPECIALTY TRACK

Degree: Associate in Applied Science, Automotive Collision Repair
Plan 24AN

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

FIRST SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ACR 110</td>
<td>Introduction to Automotive Collision Repair</td>
<td>3</td>
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<tr>
<td>ACR 112</td>
<td>Non-Structural Repair I</td>
<td>5</td>
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<tr>
<td>ACR 131</td>
<td>Automotive Refinishing I</td>
<td>3</td>
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<td>MTH 114</td>
<td>Applied Math or MTH Elective (higher than MTH 114)</td>
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SECOND SEMESTER

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<thead>
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<th>Title</th>
<th>Credits</th>
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<tr>
<td>ACR 115</td>
<td>Automotive Welding</td>
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<tr>
<td>ACR 119</td>
<td>Pointless Dent Removal</td>
<td>3</td>
</tr>
<tr>
<td>ACR 215</td>
<td>Automotive Detailing</td>
<td>3</td>
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<tr>
<td>ENG 120</td>
<td>Technical Composition or English Composition I</td>
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THIRD SEMESTER

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<th>Course</th>
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<th>Credits</th>
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<td>ACR 138</td>
<td>Automotive Electrical Systems</td>
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<td>ACR 212</td>
<td>Non-Structural Repair II</td>
<td>5</td>
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<tr>
<td>ACR 235</td>
<td>Damage Analysis/Shop Procedures</td>
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<td>Humanities and Fine Arts Elective (I/M)</td>
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FOURTH SEMESTER

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<td>Mechanical Systems</td>
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<td>ACR 230</td>
<td>Structural Repair</td>
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<tr>
<td>CMM 111</td>
<td>Communication Skills or Fundamentals of Speech</td>
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<td>CMM 121</td>
<td>Social Sciences Elective</td>
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Total Hours for A.A.S. Degree 60
## AUTOMOTIVE COLLISION REPAIR: REFINISHING TECHNICIAN SPECIALTY TRACK

**Degree:** Associate in Applied Science, Automotive Collision Repair: Refinishing Technician Specialty Track Plan 24AN

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

### FIRST SEMESTER
- **ACR 110** Introduction to Automotive Collision Repair 3
- **ACR 112** Non-Structural Repair I 5
- **ACR 131** Automotive Refinishing I 3
- **MTH 114** Applied Math or MTH Elective (higher than MTH 114) 3

### SECOND SEMESTER
- **ACR 115** Automotive Welding 5
- **ACR 138** Automotive Electrical Systems 5
- **ENG 120** Technical Composition or English Composition I 3

### THIRD SEMESTER
- **ACR 212** Non-Structural Repair II 5

**Total Hours for Certificate** 23

### FOURTH SEMESTER
- **ACR 234** Refinishing IV 3
- **ACR 235** Damage Analysis 3
- **CMM 111** Communication Skills or Fundamentals of Speech 3

**Total Hours for A.A.S. Degree** 60

## AUTOMOTIVE COLLISION REPAIR (Certificate) Plan 24AE

The automotive collision repair certificate prepares students for employment as an entry level automotive collision technician. Coursework places a strong emphasis on the understanding of panel replacement, dent repair, plastic repair, and automotive welding. Students learn foundational repair theories and develop skills in panel replacement and alignment, dent repair, plastic repair, vehicle glass, and automotive welding. Upon completion of coursework students have the opportunity to earn I-CAR program certification.

### FIRST SEMESTER
- **ACR 110** Introduction to Automotive Collision Repair 3
- **ACR 112** Non-Structural Repair I 5
- **ACR 131** Automotive Refinishing I 3
- **MTH 114** Applied Math or MTH Elective (higher than MTH 114) 3

### SECOND SEMESTER
- **ACR 115** Automotive Welding 5
- **ACR 138** Automotive Electrical Systems 5

### THIRD SEMESTER
- **ACR 212** Non-Structural Repair II 5

**Gainful Employment Information:**
www.clcillinois.edu/geacr

**Total Hours for Certificate** 23

## AUTOMOTIVE DAMAGE ANALYSIS (Certificate) Plan 24AK

The damage analysis certificate prepares students for employment as automotive damage estimator assistants. Coursework places a strong emphasis on the understanding of automotive collision repair damage analysis, damage estimates preparation, shop management and operations. Students learn to use various estimating software and to develop both written and computer generated damage analysis reports. Upon completion of coursework students have the opportunity to earn I-CAR program certification.

### FIRST SEMESTER
- **ACR 110** Introduction to Automotive Collision Repair 3
- **ACR 131** Automotive Refinishing I 3

### SECOND SEMESTER
- **ACR 115** Automotive Welding 5
- **ACR 235** Damage Analysis/Shop Procedures 3

**Gainful Employment Information:**
www.clcillinois.edu/geacr

**Total Hours for Certificate** 14
AUTOMOTIVE STRUCTURAL REPAIR TECHNICIAN
(Certificate) Plan 24AL

The automotive structural repair certificate prepares students for employment as automotive structural technician assistants. Coursework places a strong emphasis on the understanding of automotive structural repair theories, reinforced while developing hands-on skills, needed to enter the collision repair industry. Students learn to disassemble and assemble vehicles exterior components, remove and install both stationary and movable glass, sheet metal dent repair including sectioning of vehicle panels, automotive welding, various vehicle measuring systems, and a working knowledge of vehicle mechanical systems. Upon completion of coursework students have the opportunity to earn I-CAR program certification.

FIRST SEMESTER

- ACR 110 Introduction to Automotive Collision Repair 3
- ACR 112 Non-Structural Repair I 5

SECOND SEMESTER

- ACR 115 Automotive Welding 5
- ACR 137 Automotive Mechanical Systems 5

THIRD SEMESTER

- ACR 230 Structural Repair I 5

Total Hours for Certificate: 23

Gainful Employment Information: www.clcillinois.edu/geacr

AUTOMOTIVE REFINISHING TECHNICIAN (Certificate) Plan 24AM

The automotive refinishing technician certificate prepares students for entry level employment as an automotive refinishing technician. Coursework places a strong emphasis on the understanding of automotive finishes, application techniques, and final surface preparation. Students will acquire the knowledge and skills necessary to prepare vehicles for the finishing process, the application of undercoat, topcoat, and tri-coat finishes, and repairs to vehicle finishes. Upon completion of coursework students have the opportunity to earn I-CAR program certification.

FIRST SEMESTER

- ACR 110 Introduction to Automotive Collision Repair 3
- ACR 131 Automotive Refinishing I 3

SECOND SEMESTER

- ACR 132 Automotive Refinishing II 5
- ACR 215 Automotive Detailing 3

THIRD SEMESTER

- ACR 233 Automotive Refinishing III 5

FOURTH SEMESTER

- ACR 234 Refinishing IV- Custom Painting 3

Total Hours for Certificate: 22

Gainful Employment Information: www.clcillinois.edu/geacr

AUTOMOTIVE COLLISION REPAIR ASSISTANT (Certificate) Plan 24AO

This certificate prepares students for employment as an automotive collision repair assistant. Coursework places a strong emphasis on the understanding on shop safety, removal and installation of bolted vehicle panels, automotive detailing, and damage estimating. Students will learn foundational collision repair theories while developing skills in the areas of dent repair, plastic repair, movable glass, panel removal and installation, preparation of vehicle for refinishing, and reading of damage estimates. Upon completion of coursework students have the opportunity to earn I-CAR program certification.

FIRST SEMESTER

- ACR 110 Introduction to Automotive Collision Repair 3
- ACR 112 Non-Structural Repair I 3

SECOND SEMESTER

- ACR 119 Pointless Dent Removal 3
- ACR 215 Automotive Detailing 3

THIRD SEMESTER

- ACR 230 Structural Repair I 3

Total Hours for Certificate: 17

Gainful Employment Information: www.clcillinois.edu/geacr

For more information on recommended courses or program specific advising, contact faculty member Octavio Cavazos at (847) 543-2905 or the Engineering, Math and Physical Sciences division at (847) 543-2044.
# AUTOMOTIVE TECHNOLOGY

**Engineering, Math and Physical Sciences Division, Room T302, (847) 543-2044  
www.clcillinois.edu/programs/aut**

The Automotive Technology program offers courses leading to an Associate in Applied Science, Automotive Technician. This program will provide students with a solid foundation and a variety of skills to enter the automotive industry, or to pursue further undergraduate study. The program is Master Certified by the National Automotive Technician Education Foundation, Inc. (NATEF). This is the highest level of certification that NATEF awards. NATEF was founded in 1983 as an independent, non-profit organization with a single mission: to evaluate technician training programs against standards developed by the automotive industry and recommend qualifying programs for certification (accreditation) by the National Institute for Automotive Service Excellence (ASE).

Upon successful completion of the program, students will be prepared to take the ASE technician certification exams. Students who pass the ASE certifications exams and have completed the work experience required by ASE will be awarded certification by ASE.

## AUTOMOTIVE TECHNICIAN

**Degree: Associate in Applied Science, Automotive Technician  
Plan 24AH**

Completion of this program prepares students for employment in the areas of automotive repair. Fifteen hours of required General Education coursework is built into the program.

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

### FIRST SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hrs.</th>
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<td>Introduction to Automotive Technology</td>
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<tr>
<td>AUT 111</td>
<td>Engine Repair</td>
<td>4</td>
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<tr>
<td>AUT 131</td>
<td>Auto Electrical I</td>
<td>4</td>
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<tr>
<td>MTH 114</td>
<td>Applied Mathematics I or MTH Elective</td>
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<td>Braking Systems</td>
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<tr>
<td>AUT 113</td>
<td>Suspension and Alignment</td>
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<tr>
<td>AUT 231</td>
<td>Auto Electrical II</td>
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<td>ENG 120</td>
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### THIRD SEMESTER

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<td>AUT 232</td>
<td>Automatic Transmissions and Trans Axles</td>
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<td>AUT 252</td>
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### FOURTH SEMESTER

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<tr>
<td>AUT 275</td>
<td>Air Conditioning and Heating</td>
<td>4</td>
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<td>AUT 290</td>
<td>Automotive Service</td>
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### FIFTH SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUT 234</td>
<td>Powertrain Controls</td>
<td>4</td>
</tr>
<tr>
<td>CMM 111</td>
<td>Communication Skills or Fundamentals of Speech</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours for A.A.S. Degree: 65**

## AUTOMOTIVE TECHNICIAN (Certificate) Plan 24AV  
Pending ICCB Approval

Completion of this program prepares students for employment in the areas of automotive repair.

### FIRST SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUT 110</td>
<td>Introduction to Automotive Technology</td>
<td>3</td>
</tr>
<tr>
<td>AUT 111</td>
<td>Engine Repair</td>
<td>4</td>
</tr>
<tr>
<td>AUT 131</td>
<td>Auto Electrical I</td>
<td>4</td>
</tr>
<tr>
<td>MTH 114</td>
<td>Applied Math or MTH Elective (higher than MTH 114)</td>
<td>3</td>
</tr>
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</table>

### SECOND SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUT 112</td>
<td>Braking Systems</td>
<td>4</td>
</tr>
<tr>
<td>AUT 113</td>
<td>Suspension and Alignment</td>
<td>4</td>
</tr>
<tr>
<td>AUT 231</td>
<td>Auto Electrical II</td>
<td>4</td>
</tr>
<tr>
<td>AUT 251</td>
<td>Powertrain Controls</td>
<td>4</td>
</tr>
</tbody>
</table>

### THIRD SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUT 132</td>
<td>Manual Drive Train and Axles</td>
<td>4</td>
</tr>
<tr>
<td>AUT 232</td>
<td>Automatic Transmissions and Trans Axles</td>
<td>4</td>
</tr>
<tr>
<td>AUT 252</td>
<td>Powertrain Management</td>
<td>4</td>
</tr>
</tbody>
</table>

### FOURTH SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hrs.</th>
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</thead>
<tbody>
<tr>
<td>AUT 233</td>
<td>Advanced Driveline Systems</td>
<td>3</td>
</tr>
<tr>
<td>AUT 275</td>
<td>Air Conditioning and Heating</td>
<td>4</td>
</tr>
<tr>
<td>AUT 290</td>
<td>Automotive Service</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Hours for Certificate: 53**

Gainful Employment Information:  
www.clcillinois.edu/geaut
<table>
<thead>
<tr>
<th>Degree/Certificate</th>
<th>Plan</th>
<th>Description</th>
<th>First Semester</th>
<th>Second Semester</th>
<th>Total Hours for Certificate</th>
<th>Gainful Employment Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automotive Air Conditioning and Heating Specialist (Certificate)</td>
<td>24UG</td>
<td>Prepare students for initial employment diagnosing and repairing automotive heating and air conditioning systems.</td>
<td>AUT 110: Introduction to Automotive Technology</td>
<td>AUT 131: Auto Electrical I</td>
<td>7</td>
<td><a href="http://www.clcillinois.edu/geaut">www.clcillinois.edu/geaut</a></td>
</tr>
<tr>
<td>Automotive Electrical Specialist (Certificate)</td>
<td>24UH</td>
<td>Prepare students for employment diagnosing and repairing chassis and body electrical and electronic circuits.</td>
<td>AUT 110: Introduction to Automotive Technology</td>
<td>AUT 131: Auto Electrical I</td>
<td>7</td>
<td><a href="http://www.clcillinois.edu/geaut">www.clcillinois.edu/geaut</a></td>
</tr>
<tr>
<td>Automotive Service Specialist (Certificate)</td>
<td>24UJ</td>
<td>Prepare students for initial employment in the automotive service industry.</td>
<td>AUT 110: Introduction to Automotive Technology</td>
<td>AUT 111: Engine Repair</td>
<td>7</td>
<td><a href="http://www.clcillinois.edu/geaut">www.clcillinois.edu/geaut</a></td>
</tr>
<tr>
<td>Automotive Fuel Systems Specialist (Certificate)</td>
<td>24UI</td>
<td>Prepare students for initial employment diagnosing and repairing automotive engine fuel system problems.</td>
<td>AUT 110: Introduction to Automotive Technology</td>
<td>AUT 131: Auto Electrical I</td>
<td>7</td>
<td><a href="http://www.clcillinois.edu/geaut">www.clcillinois.edu/geaut</a></td>
</tr>
<tr>
<td>Automotive Brakes and Suspension Specialist (Certificate)</td>
<td>24UK</td>
<td>Prepare students for initial employment diagnosing and repairing automotive braking, suspension and alignment problems.</td>
<td>AUT 110: Introduction to Automotive Technology</td>
<td>AUT 112: Braking Systems</td>
<td>11</td>
<td><a href="http://www.clcillinois.edu/geaut">www.clcillinois.edu/geaut</a></td>
</tr>
<tr>
<td>Automotive Oil Change Specialist (Certificate)</td>
<td>24UL</td>
<td>Prepare students for employment in the oil change business.</td>
<td>AUT 110: Introduction to Automotive Technology</td>
<td>AUT 111: Engine Repair</td>
<td>7</td>
<td><a href="http://www.clcillinois.edu/geaut">www.clcillinois.edu/geaut</a></td>
</tr>
<tr>
<td>Automotive Transmission Specialist (Certificate)</td>
<td>24UM</td>
<td>Prepare students for initial employment diagnosing and repairing manual transmission, automatic transmission and driveline problems.</td>
<td>AUT 110: Introduction to Automotive Technology</td>
<td>AUT 132: Manual Drive Train and Axles</td>
<td>7</td>
<td><a href="http://www.clcillinois.edu/geaut">www.clcillinois.edu/geaut</a></td>
</tr>
<tr>
<td>Gainful Employment Information:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><a href="http://www.clcillinois.edu/geaut">www.clcillinois.edu/geaut</a></td>
</tr>
</tbody>
</table>
CAD DRAFTING TECHNOLOGY
Engineering, Math and Physical Sciences Division, Room T302, (847) 543-2044 www.clcillinois.edu/programs/cad

This program prepares students for employment and advancement in Computer Aided Design (CAD). CAD Drafters work under the supervision of an engineer or designer creating drawings. With additional education and experience the graduate may advance to designer, checker, or supervisor. Drawings are produced using a variety of CAD/CAM software. Students may select a program from the following options: Mechanical, and Graphics Animation and Presentation.

CAD DRAFTING TECHNOLOGY: MECHANICAL OPTION

Degree: Associate in Applied Science, CAD Drafting Technology: Mechanical Option Plan 24DC

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

SUMMER 4
CAD 111 * CAD Drafting Applications 4

FIRST SEMESTER 15
ART 124 Drawing I 3
CAD 110 CAD/CAM Concepts 3
CAD 117 Introduction to AutoCAD 3
CAD 170 Introduction to Solidworks 3
CMM 111 Communication Skills or
CMM 121 Fundamentals of Speech or
CMM 122 Business and Professional Speaking or
CMM 123 Dynamics of Small Group Discussion or
CMM 128 Interviewing Practices 3

SECOND SEMESTER 18
ENG 120 Technical Composition I or
ENG 121 English Composition I 3
MTH 115 Applied Mathematics II 3
CAD 171 Introduction to Inventor 3
MTT 112 Machining Principals 3
CAD 176 Introduction to Creo 3
CAD 211 ***# Geometric Dimension and Tolerancing 3

SUMMER 3
MET 214 *# Mechanical Design and Drafting 3

THIRD SEMESTER 12
ECO 110 Economics for Business and Industry or
ECO 221 Principles of Macroeconomics or
PSC 122 State and Local Politics or
Social Sciences Elective 3
CAD 270 **# Solidworks II 3
CAD 271 **# Inventor II 3
CNC 218 Introduction to MasterCam 3

Continued on next page.
## Fourth Semester
- **CAD 276*** Creo II 3
- **MET 111** Manufacturing Processes 3
- **CAD 217*** AutoCAD II 3

### Total Hours for A.A.S. Degree
61

## Technical Electives:
A broad choice of technical electives is available. See an advisor in the CAD department for approval of electives.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>ART 263</td>
<td>2D Computer Animation</td>
<td>3</td>
</tr>
<tr>
<td>ART 264</td>
<td>3D Computer Animation</td>
<td>3</td>
</tr>
<tr>
<td>ART 271</td>
<td>Introduction to Electronic Graphic Publishing</td>
<td>3</td>
</tr>
<tr>
<td>CAD 110</td>
<td>CAD-CAM Concepts</td>
<td>3</td>
</tr>
<tr>
<td>CAD 111*</td>
<td>CAD Drafting Applications</td>
<td>4</td>
</tr>
<tr>
<td>CAD 117</td>
<td>Introduction to AutoCAD</td>
<td>3</td>
</tr>
<tr>
<td>CAD 170</td>
<td>Introduction to SolidWorks</td>
<td>3</td>
</tr>
<tr>
<td>CAD 171</td>
<td>Introduction to Inventor</td>
<td>3</td>
</tr>
<tr>
<td>CAD 176</td>
<td>Introduction to Creo</td>
<td>3</td>
</tr>
<tr>
<td>CAD 177***</td>
<td>Civil Drafting</td>
<td>3</td>
</tr>
<tr>
<td>CAD 178</td>
<td>Introduction to Revit</td>
<td>3</td>
</tr>
<tr>
<td>CAD 179</td>
<td>Introduction of Autodesk 3ds Max</td>
<td>3</td>
</tr>
<tr>
<td>CAD 211***</td>
<td>Geometric Dimension and Tolerancing</td>
<td>3</td>
</tr>
<tr>
<td>CAD 217***</td>
<td>AutoCAD II</td>
<td>3</td>
</tr>
<tr>
<td>CAD 270**</td>
<td>SolidWorks II</td>
<td>3</td>
</tr>
<tr>
<td>CAD 271**</td>
<td>Inventor II</td>
<td>3</td>
</tr>
<tr>
<td>CAD 273</td>
<td>Advanced CAD Specialization</td>
<td>1-3</td>
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<tr>
<td>CAD 276****</td>
<td>Creo II</td>
<td>3</td>
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<tr>
<td>CAD 278***</td>
<td>Revit II</td>
<td>3</td>
</tr>
<tr>
<td>CAD 279***</td>
<td>Advanced CAD Specialization</td>
<td>1-3</td>
</tr>
<tr>
<td>MTH 115</td>
<td>Applied Mathematics II</td>
<td>3</td>
</tr>
<tr>
<td>MTT 111</td>
<td>Machine Shop I</td>
<td>3</td>
</tr>
<tr>
<td>MTT 112</td>
<td>Machining Principles</td>
<td>3</td>
</tr>
</tbody>
</table>

* Summer only
** Fall only
*** Spring only
# Prerequisite required

### CAD Drafting Technology: Graphics, Animation, and Presentation Option

**Degree:** Associate in Applied Science, CAD Drafting Technology: Graphics, Animation and Presentation Option Plan 240I

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

#### First Semester
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 124</td>
<td>Drawing I or Humanities or Fine Arts Elective</td>
<td>3</td>
</tr>
<tr>
<td>CAD 110</td>
<td>CAD/CAM Concepts</td>
<td>3</td>
</tr>
<tr>
<td>CAD 117</td>
<td>Introduction to AutoCAD</td>
<td>3</td>
</tr>
<tr>
<td>CAD 170</td>
<td>Introduction to SolidWorks or Introduction to Creo</td>
<td>3</td>
</tr>
<tr>
<td>MTT 112</td>
<td>Communication Skills or Fundamentals of Speech or Business/Professional Speaking</td>
<td>3</td>
</tr>
<tr>
<td>EWE 120</td>
<td>Dynamic Small Group or Interviewing Practices</td>
<td>3</td>
</tr>
<tr>
<td>ENG 120</td>
<td>Design Visualization Using 3ds Max or Technical Elective</td>
<td>3</td>
</tr>
<tr>
<td>ENG 121</td>
<td>Technical Composition I or English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MTH 115</td>
<td>Applied Mathematics II</td>
<td>3</td>
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</table>

#### Second Semester
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>CAD 171</td>
<td>Introduction to Inventor</td>
<td>3</td>
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<tr>
<td>CAD 178</td>
<td>Introduction to Revit</td>
<td>3</td>
</tr>
<tr>
<td>CAD 279***</td>
<td>Design Visualization Using 3ds Max Design or Technical Elective</td>
<td>3</td>
</tr>
<tr>
<td>ENG 120</td>
<td>Drafting or Technical Elective</td>
<td>3</td>
</tr>
<tr>
<td>ENG 121</td>
<td>Technical Composition I or English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MTH 115</td>
<td>Applied Mathematics II</td>
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#### Third Semester
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>ART 222</td>
<td>Computer Art I</td>
<td>3</td>
</tr>
<tr>
<td>ART 263#</td>
<td>2D Computer Animation</td>
<td>3</td>
</tr>
<tr>
<td>CAD 179</td>
<td>Introduction to Autodesk 3ds Max</td>
<td>3</td>
</tr>
<tr>
<td>CAD 278***</td>
<td>Job Readiness Skills and Cooperative Work Experience I</td>
<td>3</td>
</tr>
<tr>
<td>EWE 220</td>
<td>Speech or Writing</td>
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#### Fourth Semester
<table>
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<tr>
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<tbody>
<tr>
<td>ART 271</td>
<td>Introduction to Electronic Graphic Publishing or</td>
<td>3</td>
</tr>
<tr>
<td>CAD 217***</td>
<td>AutoCAD II</td>
<td>3</td>
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<tr>
<td>CAD 273</td>
<td>Advanced CAD Specialization or</td>
<td>3</td>
</tr>
<tr>
<td>DMD 111</td>
<td>Introduction to Digital Media or Social Science Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

* Summer only
** Fall only
*** Spring only
# Prerequisite required

### Total Hours for A.A.S. Degree
57

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College of Lake County Catalog
MANUFACTURING, ENGINEERING, AND ADVANCED TECHNOLOGIES PROGRAMS

# CAD DRAFTING TECHNOLOGY - GRAPHICS, ANIMATION, AND PRESENTATION (Certificate) Plan 24DK

This advanced certificate is designed for the individual who possesses education or experience in computer aided design (CAD) or graphic arts. The certificate fills the gap between CAD and computer-generated art and provides the graduate with the skills to create sophisticated computer enhanced presentations for use in a variety of applications.

**FIRST SEMESTER**
- **CAD 110**  CAD/CAM Concepts  3
- **CAD 117**  Introduction to AutoCAD  3
- **CAD 179**  Introduction to Autodesk 3ds Max or Technical Elective  3
- **DMD 111**  Introduction to Digital Media  3

**SECOND SEMESTER**
- **ART 222**  Computer Art I  3
- **ART 263 #**  2D Computer Animation  3
- **CAD 279 *****  Design Visualization Using 3ds Max or Technical Elective  3

**Total Hours for Certificate**: 21

# Prerequisite required
*** Spring only

Gainful Employment Information: www.clcillinois.edu/gecad

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# TECHNICAL ELECTIVES:
A broad choice of technical electives is available. See an advisor in the CAD department for approval of electives.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ART 263 #</td>
<td>2D Computer Animation</td>
</tr>
<tr>
<td>ART 264 #</td>
<td>3D Computer Animation</td>
</tr>
<tr>
<td>ART 271 #</td>
<td>Introduction to Electronic Graphic Publishing or Introduction to Graphic Design</td>
</tr>
<tr>
<td>DMD 121</td>
<td>CAD-CAM Concepts</td>
</tr>
<tr>
<td>CAD 110</td>
<td>CAD Drafting Applications</td>
</tr>
<tr>
<td>CAD 111 *</td>
<td>Introduction to AutoCAD</td>
</tr>
<tr>
<td>CAD 170</td>
<td>Introduction to SolidWorks</td>
</tr>
<tr>
<td>CAD 171</td>
<td>Introduction to Inventor</td>
</tr>
<tr>
<td>CAD 177 ***</td>
<td>Civil Drafting</td>
</tr>
<tr>
<td>CAD 178</td>
<td>Introduction to Revit</td>
</tr>
<tr>
<td>CAD 179</td>
<td>Introduction to Autodesk 3ds Max</td>
</tr>
<tr>
<td>CAD 211 ***##</td>
<td>Geometric Dimension and Tolerancing</td>
</tr>
<tr>
<td>CAD 217 ***##</td>
<td>AutoCAD II</td>
</tr>
<tr>
<td>CAD 270 ***##</td>
<td>SolidWorks II</td>
</tr>
<tr>
<td>CAD 271 ***##</td>
<td>Inventor II</td>
</tr>
<tr>
<td>CAD 273</td>
<td>Advanced CAD Specialization</td>
</tr>
<tr>
<td>CAD 276 ***##</td>
<td>Creo II</td>
</tr>
<tr>
<td>CAD 278 **##</td>
<td>Revit II</td>
</tr>
<tr>
<td>CAD 279 ***</td>
<td>Design Visualization Using 3ds Max</td>
</tr>
</tbody>
</table>

- **CNC 218**  Introduction to MasterCam  3
- **DMD 157**  Introduction to Animation  2
- **ELT 111**  Electronic Drafting  1
- **EWE 120**  Job Readiness Skills  2
- **EWE 220**  Cooperative Work Experience I  1
- **LPO 111**  Fundamentals of Light and Lasers  4
- **LPO 145**  Photonic CAD Applications  3
- **MET 111**  Manufacturing Processes  3
- **MET 112**  Basic Metallurgy I  3
- **MET 214 #**  Mechanical Design and Drafting  3
- **MTH 115**  Applied Mathematics II  3
- **MTT 111**  Machine Shop I  3
- **MTT 112**  Machining Principles  3

* Summer only
** Fall only
*** Spring only
# Prerequisite required

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# CAD DRAFTING TECHNOLOGY - ARCHITECTURAL/CIVIL (Certificate) Plan 24DN

**FIRST SEMESTER**
- **CAD 110**  CAD/CAM Concepts  3
- **CAD 117**  Introduction to AutoCAD  3
- **CAD 178**  Introduction to Revit  3

**SECOND SEMESTER**
- **CAD 177 *** | Civil Drafting |
- **CAD 217 ***## | AutoCAD II |

**THIRD SEMESTER**
- **CAD 278 **## | Revit II |

**Total Hours for Certificate**: 18

** Fall only
*** Spring only
# Prerequisite required

Gainful Employment Information: www.clcillinois.edu/gecad

---

# CAD DRAFTING TECHNOLOGY - 3D PARAMETRIC (Certificate) Plan 24DP

**SUMMER SESSION**
- **CAD 111 ***  CAD Drafting Applications  4

**FIRST SEMESTER**
- **CAD 170**  Introduction to SolidWorks  3
- **CAD 171**  Introduction to Inventor  3
- **CAD 176**  Introduction to Creo  3

**SECOND SEMESTER**
- **CAD 276 ***## | Creo II |
- **CAD 211 ***## | Geometric Dimensioning and Tolerancing |

**THIRD SEMESTER**
- **CAD 270 **## | SolidWorks II |
- **CAD 271 **## | Inventor II |

**Total Hours for Certificate**: 25

* Summer only
** Fall only
*** Spring only
# Prerequisite required

Gainful Employment Information: www.clcillinois.edu/gecad

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Gainful Employment Information: www.clcillinois.edu/gecad
<table>
<thead>
<tr>
<th>cad Drafting Technology - Autocad (Certificate) Plan 24Dq</th>
<th>Cad Drafting Technology - Creo (Certificate) Plan 24Dt</th>
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<tbody>
<tr>
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<td>SUMMER SESSION</td>
</tr>
<tr>
<td>CAD 111 *</td>
<td>CAD 111 *</td>
</tr>
<tr>
<td>CAD Drafting Applications</td>
<td>CAD Drafting Applications</td>
</tr>
<tr>
<td>FIRST SEMESTER</td>
<td>FIRST SEMESTER</td>
</tr>
<tr>
<td>CAD 110</td>
<td>CAD 176</td>
</tr>
<tr>
<td>CAD/CAM Concepts</td>
<td>Introduction to Creo</td>
</tr>
<tr>
<td>CAD 117</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Autocad</td>
<td>3</td>
</tr>
<tr>
<td>SECOND SEMESTER</td>
<td>SECOND SEMESTER</td>
</tr>
<tr>
<td>CAD 217 ***</td>
<td>CAD 276 ***</td>
</tr>
<tr>
<td>AutoCAD II</td>
<td>Creo II</td>
</tr>
<tr>
<td>Total Hours for Certificate</td>
<td>Total Hours for Certificate</td>
</tr>
<tr>
<td>13</td>
<td>13</td>
</tr>
</tbody>
</table>

* Summer only  
*** Spring only  
# Prerequisite required

Gainful Employment Information: www.clcillinois.edu/gecad

<table>
<thead>
<tr>
<th>cad Drafting Technology - Solidworks (Certificate) Plan 24Ds</th>
<th>Cad Drafting Technology - Autodesk Inventor (Certificate) Plan 24Du</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUMMER SESSION</td>
<td>SUMMER SESSION</td>
</tr>
<tr>
<td>CAD 111 *</td>
<td>CAD 111 *</td>
</tr>
<tr>
<td>CAD Drafting Applications</td>
<td>CAD Drafting Applications</td>
</tr>
<tr>
<td>FIRST SEMESTER</td>
<td>FIRST SEMESTER</td>
</tr>
<tr>
<td>CAD 270 **</td>
<td>CAD 171</td>
</tr>
<tr>
<td>Solidworks Ii</td>
<td>Introduction to Inventor</td>
</tr>
<tr>
<td>SECOND SEMESTER</td>
<td>SECOND SEMESTER</td>
</tr>
<tr>
<td>CAD 211 ***</td>
<td>CAD 271 ***</td>
</tr>
<tr>
<td>Geometric Dimension and Tolerancing</td>
<td>Inventor Ii</td>
</tr>
<tr>
<td>Total Hours for Certificate</td>
<td>Total Hours for Certificate</td>
</tr>
<tr>
<td>13</td>
<td>13</td>
</tr>
</tbody>
</table>

* Summer only  
** Fall only  
*** Spring only  
# Prerequisite required

Gainful Employment Information: www.clcillinois.edu/gecad

For more information on recommended courses or program specific advising, contact the Engineering, Math and Physical Sciences division at (847) 543-2044.
COMPUTER SCIENCE
Engineering, Math and Physical Sciences Division, Room T302, (847) 543-2044
www.clcillinois.edu/programs/mcs

Degree: Associate in Science
Plan 11AB

This program is recommended for students pursuing a B.S. or B.A. in Computer Science with a math or liberal arts focus. The following courses are recommended for students who have not decided on a specific four year college or university. Once a transfer school is selected, students should meet with a Student Development Counselor or advisor to determine which CLC courses will also meet transfer requirements. Four year schools offering a B.S. or B.A. in Computer Science with a math or liberal arts focus include Loyola, DePaul, Elmhurst, University of Illinois at Urbana-Champaign (UIUC College of Liberal Arts and Sciences) Northern Illinois University (NIU), University of Wisconsin Parkside and Northeastern Illinois University.

Students desiring a B.S. in Computer Science with an engineering focus may want to pursue the program of study recommended under Engineering and Computer Science (Associates of Engineering Science) on page 88.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

FIRST SEMESTER
MCS 141 Computer Science I 4
MTH 144 Precalculus 5
ENG 121 English Composition I 3
HUM 127 Critical Thinking or Logic 3

SECOND SEMESTER
MCS 142 Computer Science II 3
MTH 145 Calculus and Analytic Geometry I 5
ENG 122 English Composition II or Advanced Composition: Scientific and Technical Communication 3
ENG 126 Social & Behavioral Sciences Elective 3

THIRD SEMESTER
MCS 240 Computer Organization and Architecture 3
MTH 146 Calculus and Analytic Geometry II 4
PHY 123 Physics for Science and Engineering I 5
CMM 121 Fundamentals of Speech 3

FOURTH SEMESTER
BIO 120 Environmental Biology or Concepts in Biology or General Biology I 4
BIO 141 4
BIO 161 General Biology I 4
MTH 244 Discrete Mathematics 3
Fine Arts Elective 3
Physical Life Science Elective 2-3
Social and Behavioral Sciences Elective 3

Note: This plan includes recommendations for students who plan to major in this subject at a four year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses or program specific advising, contact the following faculty or the Engineering, Math and Physical Science Division at (847) 543-2044.

Shyam Kurup | Scott Reed | John Sprague
**COMPUTERIZED NUMERICAL CONTROL PROGRAMMING**

Engineering, Math and Physical Sciences Division, Room T302, (847) 543-2044
www.clcillinois.edu/programs/cnc

**Degree:** Associate in Applied Science, Computerized Numerical Control Programming
Plan 24NA

The Computerized Numerical Control program is designed to provide knowledge and skills needed for employment and advancement in the field of CNC Programming. Programming emphasis is on FANUC and HAAS CNC controlled lathes, milling machines and Wire EDM. Advanced placement in the program may be arranged for experienced programmers and operators. The CNC program is accredited by the National Institute for Metalworking Skills (NIMS) and national credentialing is available. Upon completion of certain courses, students will be prepared to take credentialing exams for an additional fee.

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

### FIRST SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTT 111</td>
<td>Machine Shop I or</td>
<td>3</td>
</tr>
<tr>
<td>MTT 112</td>
<td>Machining Principles</td>
<td>3</td>
</tr>
<tr>
<td>MTH 117</td>
<td>Applied Mathematics II</td>
<td>3</td>
</tr>
<tr>
<td>CAD 121</td>
<td>Introduction to AutoCAD</td>
<td>3</td>
</tr>
<tr>
<td>EGR 121</td>
<td>Engineering Graphics</td>
<td>3</td>
</tr>
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</table>

### SECOND SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 120</td>
<td>Technical Composition I or</td>
<td>3</td>
</tr>
<tr>
<td>ENG 121</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>CNC 110***</td>
<td>CNC Operations I</td>
<td>3</td>
</tr>
<tr>
<td>CAD 170</td>
<td>Introduction to SolidWorks or</td>
<td>3</td>
</tr>
<tr>
<td>CAD 171</td>
<td>Introduction to Inventor or</td>
<td>3</td>
</tr>
<tr>
<td>CAD 176</td>
<td>Introduction to Creo</td>
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</table>

### SUMMER SESSION

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CMM 111</td>
<td>Communication Skill</td>
<td>3</td>
</tr>
<tr>
<td>CNC 111*</td>
<td>Geometric Dimensions and Tolerancing</td>
<td>1</td>
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### THIRD SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNC 115**</td>
<td>CNC Programming I</td>
<td>3</td>
</tr>
<tr>
<td>MTH 117</td>
<td>Technical Math I</td>
<td>3</td>
</tr>
<tr>
<td>ECO 110</td>
<td>Economics for Business and Industry</td>
<td>3</td>
</tr>
<tr>
<td>Technical Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>CNC 216 **</td>
<td>Advanced Lathe Programming</td>
<td>3</td>
</tr>
<tr>
<td>CNC 218 **</td>
<td>Introduction to Master CAM</td>
<td>3</td>
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</table>

### FOURTH SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>CNC 215 ***</td>
<td>Advanced Mill Programming</td>
<td>3</td>
</tr>
<tr>
<td>CNC 217</td>
<td>Introduction to Wire EDM Machining or</td>
<td>3</td>
</tr>
<tr>
<td>EWE 220</td>
<td>Cooperative Work Experience I</td>
<td>2-3</td>
</tr>
<tr>
<td>EWE 120</td>
<td>Job Readiness Skills</td>
<td>1</td>
</tr>
<tr>
<td>CNC 250</td>
<td>Advanced Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td>Technical Elective</td>
<td></td>
<td>3</td>
</tr>
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</table>

### FIFTH SEMESTER

<table>
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<tr>
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<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTT 211</td>
<td>Jig and Fixture Design</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours for A.A.S. Degree** 64-65

* Summer only
** Fall only
*** Spring only

### TECHNICAL ELECTIVES

Select six hours from the list below. Approval of technical electives must be obtained from the program advisor.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CAD 270</td>
<td>SolidWorks II</td>
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</tr>
<tr>
<td>CAD 276</td>
<td>Creo II</td>
<td>3</td>
</tr>
<tr>
<td>CNC 210</td>
<td>CNC Operations II</td>
<td>3</td>
</tr>
<tr>
<td>CNC 299</td>
<td>Special Topics: CNC Machining Tech</td>
<td>1-4</td>
</tr>
<tr>
<td>LPO 112</td>
<td>Elements of Photonics</td>
<td>3</td>
</tr>
<tr>
<td>LPO 111</td>
<td>Fundamentals of Light and Lasers</td>
<td>4</td>
</tr>
<tr>
<td>LPO 113</td>
<td>Photonics-Enabled Technologies</td>
<td>3</td>
</tr>
<tr>
<td>MET 111</td>
<td>Manufacturing Processes</td>
<td>3</td>
</tr>
<tr>
<td>MET 112</td>
<td>Basic Metallurgy I</td>
<td>3</td>
</tr>
<tr>
<td>MET 116</td>
<td>Machine Components and Repair</td>
<td>3</td>
</tr>
<tr>
<td>MET 118</td>
<td>Machinery’s Handbook</td>
<td>3</td>
</tr>
<tr>
<td>MET 131</td>
<td>Introduction to Robotics</td>
<td>3</td>
</tr>
<tr>
<td>MET 214</td>
<td>Mechanical Design and Drafting</td>
<td>3</td>
</tr>
<tr>
<td>MTT 111</td>
<td>Machine Shop I</td>
<td>3</td>
</tr>
<tr>
<td>MTT 115</td>
<td>Introduction to Die Making</td>
<td>3</td>
</tr>
<tr>
<td>MTT 116</td>
<td>Introduction to Moldmaking</td>
<td>3</td>
</tr>
<tr>
<td>MTT 210</td>
<td>Machine Shop II</td>
<td>3</td>
</tr>
<tr>
<td>MFG 210</td>
<td>Manufacturing Materials</td>
<td>3</td>
</tr>
<tr>
<td>WLD 170</td>
<td>General Welding</td>
<td>3</td>
</tr>
</tbody>
</table>
CNC PROGRAMMING/OPERATIONS (Certificate) Plan 24NG

This certificate program provides knowledge and skills needed for entry level employment in CNC programming operating. Students will perform operations and program-ming on FANUC and HAAS CNC controlled machine tools. Advanced placement and NIMS credentialing may be arranged for experienced machinists.

**FIRST SEMESTER**
- 12
  - MTT 112 Machining Principles or MTT 210 # Machine Shop II 3
  - MTH 110 Machine Trades Blueprint Reading 3
  - EGR 121 Engineering Graphics 3
  - ENG 120 Technical Composition I or ENG 121 English Composition I 3

**SECOND SEMESTER**
- 6
  - CNC 115 CNC Programming I 3
  - CNC 110 CNC Operations I 3

**SUMMER SESSION**
- 3
  - CNC 210* CNC Operations II 3

**THIRD SEMESTER**
- 3
  - EWE 120 Job Readiness Skills 1
  - EWE 220 Cooperative Work Experience I 1-4

**FOURTH SEMESTER**
- 3
  - CNC 217*** Introduction to Wire EDM Machining 3

**SUMMER SESSION**
- 3
  - MTT 211* Jig and Fixture Design 3

Total Hours for Certificate: 30

* Summer only  
** Fall only  
*** Spring only  
# Prerequisite Required

Gainful Employment Information:  
www.clcillinois.edu/gecnc

NIMS LEVEL 1 CNC OPERATOR/SETUP TECHNICIAN (Certificate) Plan 24NH

This certificate program provides the knowledge, skills, and abilities for entry level employment in the field of Computerized Numerical Control (CNC) machining as a CNC Mill or Lathe Operator and/or Setup technician. Students will learn basic blueprint reading, metal cutting principles and tools, and the operation of modern FANUC and HAAS CNC controlled vertical machining centers and turning centers. Each student will be required to demonstrate competency based on the National Institute for Metalworking Skills (NIMS) nationally validated skill standards. Lecture and lab time will focus on the interpersonal, technical, and employment skills necessary to succeed in the trade. Testing for the following NIMS Level I credentials will be administered during the coursework in which the student will be required to complete both a performance test (producing precision parts on the machines) and a related theory exam.

**FIRST SEMESTER**
- 6
  - MTT 112 Machining Principles 3
  - MTH 110 Machine Trades Blueprint Reading 3

**SECOND SEMESTER**
- 3
  - CNC 110 CNC Operations I 3

Total Hours for Certificate: 9

Gainful Employment Information:  
www.clcillinois.edu/gecnc

For more information on recommended courses or program specific advising, contact faculty member Jeff Hines at (847) 543-2506 or the Engineering, Math and Physical Science division at (847) 543-2044.

NIMS LEVEL 1 CNC OPERATOR (Certificate) Plan 24NJ

This certificate provides the knowledge, skills, and abilities for entry level employment in the field of CNC machining as a CNC Mill or Lathe Operator. Students will learn the operations of a modern FANUC and HAAS CNC controlled vertical machining center and turning center. Each student will be required to demonstrate competency based on the National Institute for Metalworking Skills (NIMS) nationally validated skill standards. Lectures and lab time will focus on the interpersonal, technical, and employment skills necessary to succeed in the trade. Testing for the Level 1 NIMS CNC Mill Operator and Lathe Operator credential will be administered during the coursework in which the student will be required to complete both a performance test (producing precision parts on the machines) and a related theory exam.

**FIRST SEMESTER**
- 6
  - MTT 112 Machining Principles 3
  - MTH 110 Machine Trades Blueprint Reading 3

**SECOND SEMESTER**
- 3
  - CNC 110 CNC Operations I 3

Total Hours for Certificate: 9

Gainful Employment Information:  
www.clcillinois.edu/gecnc

MANUFACTURING, ENGINEERING, AND ADVANCED TECHNOLOGIES PROGRAMS

2019-2020 College of Lake County Catalog 175
**ELECTRICAL ENGINEERING TECHNOLOGY**  
Engineering, Math and Physical Sciences Division, Room T302, (847) 543-2044  
www.clcillinois.edu/programs/eet

*Degree: Associate in Applied Science, Electrical Engineering Technology  
Plan 24ED*

Students are prepared to work in electrical or electronic research, electronic layout, instrumentation, design, field service, communication and service laboratories, as an electrical or electronics engineering technician, installer and repairer, or maintenance. The degree also prepares students for telecommunications, biomedical, broadcast and sound engineering, and sustainable energies, such as solar, wind and geothermal.

To complete an A.A.S., students are **strongly encouraged** to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

**FIRST SEMESTER**  

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EET 170</td>
<td>DC Circuit Fundamentals</td>
<td>2</td>
</tr>
<tr>
<td>EET 115</td>
<td>Electronic Laboratory Techniques</td>
<td>2</td>
</tr>
<tr>
<td>EET 174</td>
<td>AC Fundamentals</td>
<td>2</td>
</tr>
<tr>
<td>MTH 123</td>
<td>Trigonometry or Precalculus</td>
<td>3-5</td>
</tr>
<tr>
<td>SOC 121</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>ENG 120</td>
<td>Technical Composition I</td>
<td>3</td>
</tr>
</tbody>
</table>

**SECOND SEMESTER**  

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EET 176</td>
<td>Circuit Analysis and Network Theorems</td>
<td>4</td>
</tr>
<tr>
<td>EET 223</td>
<td>Introduction to Digital Electronics</td>
<td>4</td>
</tr>
<tr>
<td>CMM 121</td>
<td>Fundamentals of Speech</td>
<td>3</td>
</tr>
<tr>
<td>PHY 121</td>
<td>General Physics I</td>
<td>5</td>
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</table>

**THIRD SEMESTER**  

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EET 113</td>
<td>Solid State Electronics</td>
<td>4</td>
</tr>
<tr>
<td>EET 230</td>
<td>Electrical Machinery</td>
<td>3</td>
</tr>
<tr>
<td>MTH 145</td>
<td>Calculus and Analytic Geometry I</td>
<td>5</td>
</tr>
<tr>
<td>PHI 122</td>
<td>Logic</td>
<td>3</td>
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<tr>
<td>PSY 122</td>
<td>Industrial/Organizational Psychology</td>
<td>3</td>
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**FOURTH SEMESTER**  

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>EET 211</td>
<td>Advanced Solid State Electronics</td>
<td>4</td>
</tr>
<tr>
<td>EET 216</td>
<td>Microprocessors I</td>
<td>4</td>
</tr>
<tr>
<td>ECO 221</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECO 222</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>MTH 146</td>
<td>Calculus and Analytic Geometry II</td>
<td>4</td>
</tr>
<tr>
<td>EET 212</td>
<td>Electronic Communications Systems</td>
<td>3</td>
</tr>
<tr>
<td>EET 130</td>
<td>Introduction to Renewable Energy Sources</td>
<td>4</td>
</tr>
<tr>
<td>EIT 210</td>
<td>Data and Network Communication</td>
<td>4</td>
</tr>
<tr>
<td>ELC 171</td>
<td>Programmable Logic Controllers</td>
<td>3</td>
</tr>
<tr>
<td>ELC 271</td>
<td>Advanced Programmable Controls</td>
<td>3</td>
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<tr>
<td>MTH 122</td>
<td>College Algebra</td>
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<tr>
<td>Approved Technical Electives</td>
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**TECHNICAL ELECTIVES**  

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<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>MTH 146</td>
<td>Calculus and Analytic Geometry III</td>
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</tr>
<tr>
<td>EIT 212</td>
<td>Electronic Communications Systems</td>
<td>3</td>
</tr>
<tr>
<td>EET 130</td>
<td>Introduction to Renewable Energy Sources</td>
<td>4</td>
</tr>
<tr>
<td>EIT 210</td>
<td>Data and Network Communication</td>
<td>4</td>
</tr>
<tr>
<td>ELC 171</td>
<td>Programmable Logic Controllers</td>
<td>3</td>
</tr>
<tr>
<td>ELC 271</td>
<td>Advanced Programmable Controls</td>
<td>3</td>
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<tr>
<td>MTH 122</td>
<td>College Algebra</td>
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</tr>
<tr>
<td>Departmentally Approved Elective</td>
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</tbody>
</table>

Total Hours for A.A.S. Degree: 66-70
### ELECTRONICS TECHNOLOGY (Certificate) Plan 24EF

This program provides students with the basic background and skills necessary to work with both analog and digital electronics. A minimum of 35 semester hours credit must be completed for the certificate. Courses not listed here may be taken with division approval.

#### FIRST SEMESTER  
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EET 115</td>
<td>Electronics Laboratory Techniques</td>
<td>2</td>
</tr>
<tr>
<td>EET 170</td>
<td>DC Circuit Fundamentals</td>
<td>2</td>
</tr>
<tr>
<td>EET 174</td>
<td>AC Fundamentals</td>
<td>2</td>
</tr>
<tr>
<td>MTH 122</td>
<td>Technical Electives</td>
<td>6</td>
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#### SECOND SEMESTER  
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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EET 223</td>
<td>Introduction to Digital Electronics</td>
<td>4</td>
</tr>
<tr>
<td>MTH 117</td>
<td>Technical Mathematics I</td>
<td>8</td>
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</table>

#### THIRD SEMESTER  
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EET Electives</td>
<td></td>
<td>11</td>
</tr>
</tbody>
</table>

#### TECHNICAL ELECTIVES  
Additional Required Coursework: Choose at least 25 credit hours from the following list:

#### CAD 117  
Introduction to AutoCAD

#### EET 113  
Solid State Electronics

#### EET 130  
Introduction to Renewable Energy Sources

#### EET 176  
Circuit Analysis and Network Theorems (Preferred course*) or DC Analysis-Network Theorems and

#### EET 173  
DC Analysis-Network Theorems

#### EET 175  
AC Analysis and Circuit Theorems

#### EET 211  
Advanced Solid State Electronics

#### EET 212  
Electronic Communication Systems

#### EET 216  
Microprocessors I

#### EET 299  
Special Topics : Electrical/ Electronics

#### MTH 122  
College Algebra or

#### MTH 144  
Precalculus

#### PHY 120  
Practical Aspects of Physics or

#### PHY 121  
General Physics I

Total Hours for Certificate 35

* If the student prefers, they may take EET 173 and EET 175.

Gainful Employment Information:  
www.clcillinois.edu/geeet

### ELECTRICAL/ELECTRONIC MAINTENANCE (Certificate) Plan 24EH

This certificate is intended to provide students with the skills necessary to perform electrical and electronic installation, trouble-shooting and maintenance procedures in industry, including practical experience with circuitry, motors and motor controls and programmable logic controllers.

#### FIRST SEMESTER  
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EET 115</td>
<td>Electronics Laboratory Techniques</td>
<td>2</td>
</tr>
<tr>
<td>EET 170</td>
<td>DC Circuit Fundamentals</td>
<td>2</td>
</tr>
<tr>
<td>ELC 114</td>
<td>Motors and Machine Controls</td>
<td>3</td>
</tr>
<tr>
<td>ETC 171</td>
<td>Programmable Logic Controllers</td>
<td>3</td>
</tr>
<tr>
<td>ETC 172</td>
<td>Applied Circuit Theory</td>
<td>2</td>
</tr>
<tr>
<td>MTH 117</td>
<td>Technical Mathematics I</td>
<td>3</td>
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#### SECOND SEMESTER  
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EET 230</td>
<td>Electrical Machinery</td>
<td>3</td>
</tr>
<tr>
<td>ELC 271</td>
<td>Advanced Programmable Controls</td>
<td>3</td>
</tr>
<tr>
<td>ENG 120</td>
<td>Technical Composition I or</td>
<td>3</td>
</tr>
<tr>
<td>ENG 121</td>
<td>English Composition I</td>
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#### TECHNICAL ELECTIVES  
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EET 130</td>
<td>Introduction to Renewable Energy Sources</td>
<td>4</td>
</tr>
<tr>
<td>EET 223</td>
<td>Introduction to Digital Electronics</td>
<td>4</td>
</tr>
<tr>
<td>EET 299</td>
<td>Special Topics: Electrical/ Electronics</td>
<td>1-4</td>
</tr>
<tr>
<td>EIT 116</td>
<td>Fiber Optic Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>EIT 210</td>
<td>Data and Network Communication</td>
<td>4</td>
</tr>
<tr>
<td>ELT 151</td>
<td>PC Hardware Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ISE 114</td>
<td>National Electrical Code</td>
<td>2</td>
</tr>
<tr>
<td>MET 131</td>
<td>Introduction to Robotics</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours for Certificate 30-32

Gainful Employment Information:  
www.clcillinois.edu/geeet

### FIBER OPTICS TECHNICIAN (Certificate) Plan 24EH

This certificate program is designed to provide students the hands-on experience and knowledge needed to prepare for industry certification in fiber optics technology and to find entry level employment in network technology and telecommunications. Additionally, this certificate may be used to broaden the experiences of skilled network and systems administrators to include fiber optic analysis, installation and testing.

#### FIRST SEMESTER  
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EIT 111</td>
<td>Digital and Network Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>EIT 116</td>
<td>Fiber Optic Fundamentals</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours for Certificate 7

Gainful Employment Information:  
www.clcillinois.edu/geeet

### WIRELESS NETWORKING SECURITY (Certificate) Plan 24EU

This certificate provides the hands-on and theoretical experiences a network administrator needs to be able to design, test and maintain secure wireless and mixed media networks. This program also prepares students and maintain secure wireless and mixed media networks. This program also prepares students to pursue certifications in the field of wireless networking.

#### FIRST SEMESTER  
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EIT 111</td>
<td>Digital and Network Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>EIT 210</td>
<td>Data and Network Communication</td>
<td>4</td>
</tr>
<tr>
<td>EIT 230</td>
<td>Secure Wireless Networking</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours for Certificate 11

Gainful Employment Information:  
www.clcillinois.edu/geeet

For more information on recommended courses or program specific advising, contact faculty member Michelle Leonard at (847) 543-2760 or the Engineering, Math and Physical Science division at (847) 543-2044.
**ELECTRICIAN APPRENTICESHIP**
Engineering, Math and Physical Sciences Division, Room T302, (847) 543-2044 www.clcillinois.edu/programs/eap

Degree: Associate in Applied Science, Electrician Apprenticeship Plan 24EG

This program has been established in partnership with the International Brotherhood of Electrical Workers (IBEW), Local 150. Students must be accepted into the IBEW apprenticeship program prior to enrollment in the program.

Courses noted with a plus sign (+) are taken at CLC. All other courses are taken at the IBEW Local 150 classrooms.

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

<table>
<thead>
<tr>
<th>YEAR ONE</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRST SEMESTER</td>
<td></td>
</tr>
<tr>
<td>EET 170</td>
<td>DC Circuit Fundamentals</td>
</tr>
<tr>
<td>EMF 111</td>
<td>Electronics Mathematics I</td>
</tr>
<tr>
<td>EMF 112</td>
<td>Electronics Mathematics II</td>
</tr>
<tr>
<td>ISE 114</td>
<td>National Electrical Code</td>
</tr>
<tr>
<td>EAP 111</td>
<td>Electrician Apprenticeship Work Experience I</td>
</tr>
</tbody>
</table>

| SECOND SEMESTER | |
| ELT 111 | Electronic Drafting and Shop Practice | 2 |
| ELC 113 | Electrician Apprenticeship Work Experience II (Continued from 1st semester) | 3 |
| EAP 111 | Electrician Apprenticeship Work Experience II (Continued from 1st semester) | 0 |

<table>
<thead>
<tr>
<th>YEAR TWO</th>
<th>13</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRST SEMESTER</td>
<td></td>
</tr>
<tr>
<td>CMT 112</td>
<td>Construction Blueprint Reading</td>
</tr>
<tr>
<td>ELC 172</td>
<td>Applied AC Circuit Theory</td>
</tr>
<tr>
<td>EAP 112</td>
<td>Electrician Apprenticeship Work Experience II</td>
</tr>
</tbody>
</table>

| SECOND SEMESTER | |
| ENG 120+ | Technical Composition I or English Composition I | 3 |
| ENG 121+ | Power Distribution | 3 |
| ISE 118 | Electrician Apprenticeship Work Experience II (Continued from 1st semester) | 0 |

| YEAR THREE | 15 |
| FIRST SEMESTER | |
| CMM 111+ | Communication Skills or Fundamentals of Speech | 3 |
| CMM 121+ | Applied Analog Circuits | 3 |
| ETP 113 | Electrician Apprenticeship Work Experience III | 2 |

| SECOND SEMESTER | |
| CMT 118 | Mechanical and Electrical Equipment | 3 |
| ELC114 | Motor and Machine Controls | 3 |
| ELC 276 | Electrical Industrial Safety | 1 |
| EAP 113 | Electrician Apprenticeship Work Experience III (Continued from 1st semester) | 0 |

| FOURTH YEAR | 14 |
| FIRST SEMESTER | |
| ECL 171 | Programmable Logic Controllers | 3 |
| EET 230 | Electrical Machines | 3 |
| EAP 114 | Electrician Apprenticeship Work Experience IV | 2 |

| SECOND SEMESTER | |
| ETP 117 | Industrial Digital Electronics I United States History 1876 to Present or American Labor History | 3 |
| ETP 225+ | Electrician Apprenticeship Work Experience IV (Continued from 1st semester) | 0 |

| YEAR FIVE | 11 |
| FIRST SEMESTER | |
| ARC 228+ | History of Architecture | 3 |
| CAD 110+ | CAD/CAM Concepts or Introduction to AutoCAD | 3 |
| CAD 117+ | Electrician Apprenticeship Work Experience V | 2 |

| SECOND SEMESTER | |
| ETP 117 | Industrial Control Systems | 3 |
| EAP 115 | Electrician Apprenticeship Work Experience V (Continued from 1st semester) | 0 |

Total Hours for A.A.S. Degree: 68

For more information on recommended courses or program specific advising, contact faculty member Michelle Leonard at (847) 543-2760 or the Engineering, Math and Physical Science division at (847) 543-2044.
ENGINEERING
AND COMPUTER SCIENCE
Engineering, Math and Physical Sciences
Division, Room T302, (847) 543-2044
www.clcillinois.edu/programs/egr

Degree: Associate in Engineering Science
Plan 12AB

This program is recommended for students pursuing a B.S. in Engineering, including any of the various engineering disciplines (e.g. mechanical, electrical, civil, aeronautical, materials, agricultural, biomedical, chemical, and computer, etc.). The program parallels the first two years of engineering programs at most universities accredited by the Accrediting Board for Engineering and Technology (ABET). Four year schools offering a B.S. in Engineering include the University of Illinois at Chicago (UIC), Northern Illinois University (NIU), University of Illinois at Urbana-Champaign (UIUC), Illinois Tech (IIT), Bradley, Southern Illinois University (SIU), Northwestern University, Milwaukee School of Engineering (MSOE), Marquette, Purdue, and more. Upon completion of minimum transfer requirements (which vary by four year school), CLC Engineering students can transfer to complete their B.S degree at a four year college or university.

This program is also appropriate for students pursuing a B.S. in Computer Science with an engineering focus. Four year schools offering a B.S. in Computer Science with an engineering focus include University of Illinois at Chicago (UIC), University of Illinois at Urbana-Champaign (UIUC College of Engineering), Illinois Tech (IIT), Southern Illinois University at Carbondale (SIUC) and Southern Illinois University at Edwardsville (SIUE). Students desiring a B.A. or B.S. in Computer Science with a math or liberal arts focus may want to pursue the program of study recommended under Computer Science (Associate in Science) on page173.

Since minor differences in course requirements exist at different universities and in different engineering disciplines within the same university, students are strongly advised to meet with a faculty advisor from the Engineering Department or a CLC Student Development Counselor, and consult the college catalog and an engineering advisor at their intended transfer institution.

FIRST SEMESTER
MTH 145 Calculus and Analytic Geometry I 5
CHM 121 General Chemistry I 5
EGR 120 Introduction to Engineering # or Technical Elective 1
EGR 121 Engineering Graphics # or Technical Elective 3
ENG 121 English Composition I 3

SECOND SEMESTER
MTH 146 Calculus and Analytic Geometry II 4
ENG 122 English Composition II or Advanced Composition: Scientific and Technical Communications 3
PHY 123 Physics for Science and Engineering I 5
Humanities/Fine Arts or Social Science Elective* 3

THIRD SEMESTER
PHY 124 Physics for Science and Engineering II 5
EGR 125 Engineering Statics # or Technical Elective 3
MTH 246 Calculus and Analytical Geometry III 5
Humanities/Fine Arts or Social Science Elective* 3

FOURTH SEMESTER
MCS 140 Computer Programming I or 3
MCS 141 Computer Science I 3
MTH 227 Differential Equations 3
EGR 225 Engineering Dynamics # or Technical Elective 3
EGR 260 Introduction to Circuit Analysis # or Technical Elective 3-4
Humanities/Fine Arts or Social Science Elective* 3

Continued on next page.
OPTIONAL SUMMER RECOMMENDATIONS
(based on the institution you intend to transfer to)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 123</td>
<td>General Chemistry II #</td>
<td>5</td>
</tr>
<tr>
<td>EGR 222</td>
<td>Engineering Mechanics of Materials# or Technical Elective</td>
<td>3</td>
</tr>
<tr>
<td>PHY 221</td>
<td>Physics for Science and Engineering III #</td>
<td>4</td>
</tr>
</tbody>
</table>

# Select a minimum of 12 credit hours from the technical elective courses. Courses may include those recommended in the semester schedule above or substitute in a different course from the list below.

* Select courses from three different disciplines (i.e. different prefixes). At least one course must be selected from the Social and Behavioral Sciences section and one course from either the Humanities or Fine Arts section. See pages 158-159 for specific course list. Include one course in International/ Multicultural Education. There will be a + following the course number. This course can fulfill both the I/M requirement and a Social Science, Humanities, or Fine Arts requirement.

GENERAL OR UNDECIDED:
- EGR 120, 121, 125, 225, 260

AERONAUTICAL/AEROSPACE:
- EGR 120, 121, 125, 222, 225, 260

BIOENGINEERING:
- EGR 120, 121, 123, 222

CHEMICAL ENGINEERING:
- EGR 120, 121, CHM 123, BIO 161

CIVIL ENGINEERING:
- EGR 120, 121, 125, 222, 225

COMPUTER SCIENCE:
- EGR 120, MCS 141, 142, 240, MTH 244

ELECTRICAL/COMPUTER ENGINEERING:
- EET 223, EGR 120, 260, MTH 225, 244

INDUSTRIAL ENGINEERING:
- EGR 120, 121, 125, 222

MATERIALS ENGINEERING:
- EGR 120, 121, 125, 222, 225

MECHANICAL ENGINEERING:
- EGR 120, 121, 125, 222, 260

Above schedule assumes sufficient enrollment. For more information about this course of study, students should contact the division office.

For more information on recommended courses or program specific advising, contact the following faculty members or the Engineering, Math and Physical Sciences division at (847) 543-2044:

Jan Edwards | Rob Twardock
HEATING, VENTILATION, AIR CONDITIONING, REFRIGERATION ENGINEERING TECHNOLOGY
Engineering, Math and Physical Sciences Division, Room T302, (847) 543-2044 www.clcillinois.edu/programs/het

The HVACR program provides instruction in air conditioning, heating, and refrigeration. Introductory courses in electricity, electric motors, and theory of refrigeration are included. Advanced work in the commercial area includes work on reach-in and walk-in units found in stores, dairies, and markets. Other areas of study include uses of air conditioning, temperature and humidity control, air circulation, cleaning, installation, and troubleshooting of equipment. Students are required to provide their own basic tools, and to take a national exit exam which will give passing students national recognition on an A.R.I. (Air Conditioning and Refrigeration Institute) National Registry, which goes to Refrigeration, Heating and Air Conditioning employers.

Note: Students are required to provide their own basic tools.

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

FIRST SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HET 110</td>
<td>Basic Refrigeration</td>
<td>4</td>
</tr>
<tr>
<td>HET 111</td>
<td>HVACR Electricity I</td>
<td>4</td>
</tr>
<tr>
<td>HET 190</td>
<td>EPA Certification</td>
<td>2</td>
</tr>
<tr>
<td>HET 155</td>
<td>HVAC/R Blueprint Reading</td>
<td>1</td>
</tr>
<tr>
<td>MTH 114</td>
<td>Applied Mathematics I or</td>
<td></td>
</tr>
<tr>
<td>MTH 115</td>
<td>Applied Mathematics II or</td>
<td></td>
</tr>
<tr>
<td>MTH 117</td>
<td>Technical Mathematics I</td>
<td>3</td>
</tr>
</tbody>
</table>

SECOND SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HET 119</td>
<td>HVACR Electricity II</td>
<td>4</td>
</tr>
<tr>
<td>HET 130</td>
<td>Heating I Residential Appliances</td>
<td>4</td>
</tr>
<tr>
<td>HET 172</td>
<td>Refrigeration II Commercial Appliances</td>
<td>4</td>
</tr>
<tr>
<td>HET 191</td>
<td>HVAC/R Load Calculation</td>
<td>4</td>
</tr>
<tr>
<td>ECO 110</td>
<td>Economics for Business and Industry or Social Science Elective*</td>
<td>3</td>
</tr>
</tbody>
</table>

SUMMER SESSION

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HET 150</td>
<td>Air Conditioning Split-Systems</td>
<td>4</td>
</tr>
</tbody>
</table>

THIRD SEMESTER

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 120</td>
<td>Technical Composition I or</td>
<td></td>
</tr>
<tr>
<td>ENG 121</td>
<td>English Composition I</td>
<td></td>
</tr>
<tr>
<td>HET 230</td>
<td>Air Movement and Ventilation</td>
<td>4</td>
</tr>
<tr>
<td>HUM 127</td>
<td>Critical Thinking or Humanitities or Fine Arts Elective*</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Technical Elective</td>
<td>4-8</td>
</tr>
</tbody>
</table>

Continued on next page.
DEGREES/CERTIFICATES

FOURTH SEMESTER

HET 251  Sheet Metal Fabrication  1
HET 252  A/C III Installation and Service  4
CMM 111  Communication Skills or
CMM 121  Fundamentals of Speech or
CMM 122  Business and Professional Speaking or
CMM 123  Dynamics of Small Group Discussion or
CMM 128  Interviewing Practices  3
Technical Elective  4-8

Total Hours for A.A.S.  63-67

TECHNICAL ELECTIVES  8-12

HET 170  Refrigeration I Small Appliances  4
HET 192  HVACR Engineering Tech Practicum  1
HET 193  Recertification Preparation  0.5
HET 194  NATE Certification Preparation  2
HET 219  HVACR Electricity III  4
HET 231  Heating II Hydronic Heating Systems  4
HET 250  A/C II Commercial HVAC Appliances  4
HET 272  Refrigeration III Commercial Appliance Installation  4
HET 273  Direct Digital Controls  4
HET 293  HVAC Codes  3
HET 294  Green Building/Energy Sustainability  3
PHY 121  General Physics I  5
HET 295  HET Capstone  3
ELC 171  Programmable Logic Controllers  3
ELC 271  Advanced Programmable Controls  3
PHY 121  General Physics I  5
WLD 170  General Welding  3

RESIDENTIAL HEATING TECHNICIAN
(Certificate) Plan 24RJ  

Note: This certificate has a fast-track option.

The Residential Heating Technician Certificate program prepares students for employment as residential heating trainee. This certificate places a strong emphasis on operational characteristics of various types of residential heating equipment, its wiring, and safety procedures. Students learn to use refrigerants, gauges, and electrical test equipment in a residential setting. Students will be given a national exit exam after each advanced course which will provide passing students recognition on the Air Conditioning, Heating, and Refrigeration Institute (AHRI) national registry distributed to heating, air conditioning, and refrigeration employers.

Note: Students are required to provide their own basic tools.

FIRST SEMESTER

HET 110  Basic Refrigeration Systems  10
HET 111  HVACR Electricity I  4
HET 190  EPA Certification Preparation  4

SECOND SEMESTER

HET 130  Heating I Residential Appliances  4

Total Hours for Certificate  14

Gainful Employment Information: www.clcillinois.edu/gehet

COMMERCIAL REFRIGERATION TECHNICIAN
(Certificate) Plan 24RK

Note: This certificate has a fast-track option.

The Commercial Refrigeration Technician Certificate program prepares students for employment as commercial refrigeration trainee. This certificate places a strong emphasis on the commercial refrigeration industry and emphasizes hands-on service and installation techniques, soldering and brazing, safety, and mechanical and electrical troubleshooting. Students learn to use refrigerants, gauges, and electrical test equipment in a commercial setting. Students will be given a national exit exam after each advanced course which provides passing students recognition on the Air Conditioning, Heating, and Refrigeration Institute (AHRI) national registry distributed to heating, air conditioning, ventilation, and refrigeration employers.

Note: Students are required to provide their own basic tools.

FIRST SEMESTER

HET 110  Basic Refrigeration Systems  10
HET 111  HVACR Electricity I  4
HET 190  EPA Certification Preparation  2

SECOND SEMESTER

HET 172  Refrigeration II Commercial Appliances  4

Total Hours for Certificate  14

Gainful Employment Information: www.clcillinois.edu/gehet

ELECTRICAL TROUBLESHOOTING TECHNICIAN
(Certificate) Plan 24RK

Note: This certificate has a fast-track option.

The Electrical Troubleshooting Technician Certificate program prepares students to specialize in electrical troubleshooting for employment as HVAC trainees. This certificate places a strong emphasis on national Electrical Code, meters, schematics, and wiring diagrams, electrical troubleshooting, electrical service procedures, electrical test equipment, and safety. Students learn to use electrical test
equipment found in a HVAC setting. Students will be given a national exit exam after each advanced course which provides passing students recognition on the Air Conditioning, Heating, and Refrigeration Institute (AHRI) national registry distributed to heating, air conditioning, ventilation, and refrigeration employers.

Note: Students are required to provide their own basic tools.

FIRST SEMESTER
- HET 110 Basic Refrigeration Systems 4
- HET 111 HVACR Electricity I 4
- HET 190 EPA Certification Preparation 2

SECOND SEMESTER
- HET 119 HVACR Electricity II 4

Total Hours for Certificate 14

Gainful Employment Information: www.clcillinois.edu/gehet

HVAC/R INSTALLATION TECHNICIAN
(Certificate) Plan 24RY

This certificate is designed to give the HVAC/R student the ability and knowledge in the area of installation which includes the skills in installing HVAC/R equipment and fabricating sheet metal duct systems.

FIRST SEMESTER 9.5-11
- HET 110 Basic Refrigeration Systems 4
- HET 111 HVACR Electricity I 4
- HET 155 HVAC/R Blueprint Reading 1
- HET 193 Recertification Preparation or HET 190 EPA Certification Preparation 0.5-2

SECOND SEMESTER 9
- HET 130 Heating I Residential Appliances 4
- HET 251 Sheet Metal Fabrication 1
- HET 252 A/C III Installation and Service 4

Total Hours for Certificate 18.5-20

Gainful Employment Information: www.clcillinois.edu/gehet

HAIRC/R SERVICE TECHNICIAN
(Certificate) Plan 24RI

The HVAC/R Service Technician Certificate program prepares students for specialization and employment as both residential and commercial HVAC/R equipment technicians. Courses provide exposure to HVAC/R industry and emphasize hands-on service and installation techniques, soldering and brazing, safety, and mechanical and electrical troubleshooting. Students learn to use refrigerants, gauges, and electrical test equipment in a commercial setting. Students will be given a national exit exam after each advanced course which provides passing students recognition on the Air Conditioning, Heating, and Refrigeration Institute (AHRI) national registry distributed to heating, air conditioning, ventilation, and refrigeration employers.

Note: Students are required to complete the HVAC/R Installation Technician certificate (24RY) before beginning this certificate. In addition students must provide their own basic tools.

FIRST SEMESTER 14
- HET 119 HVACR Electricity II 4
- HET 191 HVACR Load Calculation 4
- HET 194 NATE Certification Preparation 2
- HET 230 Air Movement and Ventilation 4

SECOND SEMESTER 15
- HET 150 Air Conditioning I Split-Systems 4
- HET 250 A/C II Commercial HVAC Appliances 4
- HET 293 HVAC Codes 3
- HET 231 Heating II Hydronic Heating Systems 4

Total Hours for Certificate 29

Gainful Employment Information: www.clcillinois.edu/gehet

RESIDENTIAL ENERGY AUDITING
(Certificate) Plan 24RW

The Residential Energy Audit Certificate prepares students to specialize in the energy audit and insulation of residential buildings, while preparing students for employment as energy auditors. It also prepares students to sit for the Residential Energy Services Network’s (RESNET®) exam. Coursework provides an introduction to the energy audit and building insulation industry and emphasizes hands-on blower door inspections, soldering and brazing, safety, and mechanical and electrical troubleshooting. Students learn to use refrigerants, gauges, and electrical test equipment in a residential and commercial building setting.

Note: Students are required to provide their own basic tools.

FIRST SEMESTER 8
- HET 110 Basic Refrigeration Systems 4
- HET 111 HVACR Electricity I 4

SECOND SEMESTER 8
- HET 291* Energy Auditing 4
- HET 292 Resnet Exam Preparation 1
- HET 294 Green Building/Energy Sustainability 3

Total Hours for Certificate 16

*Additional Prerequisites

Gainful Employment Information: www.clcillinois.edu/gehet

For more information on recommended courses or program specific advising, contact the Engineering, Math and Physical Sciences division at (847) 543-2044.

RESIDENTIAL ENERGY AUDITING
(Certificate) Plan 24RW

The Residential Energy Audit Certificate prepares students to specialize in the energy audit and insulation of residential buildings, while preparing students for employment as energy auditors. It also prepares students to sit for the Residential Energy Services Network’s (RESNET®) exam. Coursework provides an introduction to the energy audit and building insulation industry and emphasizes hands-on blower door inspections, soldering and brazing, safety, and mechanical and electrical troubleshooting. Students learn to use refrigerants, gauges, and electrical test equipment in a residential and commercial building setting.

Note: Students are required to provide their own basic tools.

FIRST SEMESTER 8
- HET 110 Basic Refrigeration Systems 4
- HET 111 HVACR Electricity I 4

SECOND SEMESTER 8
- HET 291* Energy Auditing 4
- HET 292 Resnet Exam Preparation 1
- HET 294 Green Building/Energy Sustainability 3

Total Hours for Certificate 16

*Additional Prerequisites

Gainful Employment Information: www.clcillinois.edu/gehet

For more information on recommended courses or program specific advising, contact the Engineering, Math and Physical Sciences division at (847) 543-2044.
# Optics and Photonics Technology

**Degree:** Associate in Applied Science, Optics and Photonics Technology  
**Plan:** 24LD

This program prepares graduates for employment in the growing field of photonics — including optics, lasers, fiber optics, and other electro-optical devices. Graduates are qualified for employment in positions such as lab technician, system installer, troubleshooting/repair technician, and marketing and sales representatives. Employers include companies in various industries that use photonics applications; such as manufacturing, aerospace, defense, entertainment, laser manufacturers, energy, medicine, automotive, lighting, and communications. The program includes industry recommended coursework, hands-on experience with state of the art equipment, and project work expected of entry level employees. This program prepares graduates for a successful career in this rapidly growing field.

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

## First Semester  
**16-18 credits**

- **LPO 111** Fundamentals of Light and Lasers  
  | **3**
- **MTH 118** Technical Mathematics II or  
  | **3**
- **MTH 122** College Algebra or higher level Math (consult with an advisor)  
  | 3-5
- **ENG 121** English Composition I or  
  | **3**
- **ENG 120** Technical Composition I  
  | **3**
- **CAD 170** Introduction to SolidWorks  
  | **3**
- **CMM 121** Fundamentals of Speech or  
  | **3**
- **CMM 122** Business/Professional Speaking or  
  | **3**
- **CMM 128** Interviewing Practices  
  | **3**

## Second Semester  
**13-17 credits**

- **LPO 112** Elements of Photonics  
  | **3**
- **LPO 113** Photonics-Enabled Technologies  
  | **3**
- **PHY 121** General Physics I or higher level Physics  
  | 4-5
- **ARM 156** Electrical Systems I and  
  | **4**
- **ARM 157** Electrical Systems II and  
  | **4**
- **ARM 158** Electrical Systems III or  
  | **4**

## Third Semester  
**20-22 credits**

- **LPO 212** Elements of Photonics II  
  | **3**
- **LPO 211** Quality Assurance for Precision Optics  
  | **3**
- **LPO 290** LPO Capstone Proposal or  
  | **3**
- **EWE 120** Job Readiness Skills  
  | **1**
- **EET 223** Introduction to Digital Electronics  
  | **4**
- **HUM 127** Critical Thinking or  
  | **3**
- **PHI 125** Introduction to Ethics  
  | **3**
- **LPO 250** Laser and Electro-Optic Devices  
  | **3**

LPO Elective: Choose from elective list below. Any course can be taken once towards total credit hours for completion of this certificate 3-5

## Fourth Semester  
**12-15 credits**

- **LPO 291** LPO Project or Research Capstone or  
  | **3**
- **EWE 220** Internship I  
  | **3**
- **LPO 145** Photonic CAD Applications or  
  | **3**
- **EET 216** Microprocessors I  
  | **3**
- **ECO 110** Economics for Business and Industry  
  | **3**
- **LPO Elective** Choose from elective list below. Any course can be taken once towards total credit hours for completion of this certificate 3-5

LPO Electives: Select from the following list

- **LPO 134** Introduction to Biophotonics  
  | **4**
- **BIO 123** Principles of Biology  
  | **4**
- **BIO 161** General Biology I  
  | **4**
- **ELC 171** Programmable Logic Controllers  
  | **3**
- **ELC 271** Advanced Programmable Controls  
  | **3**
- **MET 111** Manufacturing Processes  
  | **3**
- **PHY 122** General Physics II  
  | **5**
- **PHY 123** Physics for Science and Engineering I  
  | **5**
- **PHY 124** Physics for Science and Engineering II  
  | **5**
- **PHY 221** Physics for Science and Engineering III  
  | **4**
- **LPO 110** Introduction to Lasers, Photonics and Optics  
  | **3**

Total Hours for A.A.S. Degree 61-72

Gainful Employment Information: www.clcillinois.edu/gelpo
LASER/PHOTONICS/OPTICS
(Certificate) Plan 24LA

This certificate provides career oriented students training to enter the laser/photonics/optics support field. The skill sets involved in this certificate provide basic understanding of laser operation, safe handling of lasers and optics, manufacturing, applications, installation and maintenance.

FIRST SEMESTER 10-13
LPO 110 Introduction to Lasers, Photonics and Optics 3
LPO 111 Fundamentals of Lights and Lasers 4
EET 115 Electronic Laboratory Techniques or ARM 156 Electrical Systems I 1-2
ARM 157 Electrical Systems II or EET 170 DC Circuit Fundamentals 1-2
ARM 158 Electrical Systems III or EET 174 AC Fundamentals 1-2
SECOND SEMESTER 7
LPO 112 Elements of Photonics 3
LPO 113 Photonics-Enabled Technologies 3
Total Hours for Certificate 16-19

Gainful Employment Information: www.clcillinois.edu/gelpo

APPLIED LASERS CERTIFICATE
(Certificate) Plan 24LC

This certificate provides career oriented students training to enter the laser/photonics/optics support field. The skill sets involved in this certificate provide basic understanding of laser operation, safe handling of lasers and optics, manufacturing, applications, installation and maintenance.

FIRST SEMESTER 7
LPO 111 Fundamentals of Lights and Lasers 4
CAD 170 Introduction to Solidworks 3
SECOND SEMESTER 6
LPO 113 Photonics-Enabled Technologies 3
LPO 145 Photonic CAD Applications 3
Total Hours for Certificate 13

BIOPHOTONICS CERTIFICATE
(Certificate) Plan 24LB

This certificate introduces the basics of Photonics (Light) and photonic devices that accept light into an existing program. Light is an enabling technology that aids and is sometimes the foundation for a given industry. This certificate illustrates the interaction of light with a sample as an input to a device which allows a technician to discover a variety of phenomena related to a substance.

FIRST SEMESTER 4
LPO 111 Fundamentals of Lights and Lasers 4
SECOND SEMESTER 7
LPO 112 Elements of Photonics 3
BIO 123 Principles of Biology or BIO 161 General Biology I 4
THIRD SEMESTER 4
LPO 134 Introduction to Biophotonics 4
Total Hours for Certificate 15

For more information on recommended courses or program specific advising, contact faculty member William Kellerhals at (847) 543-2616 or the Engineering, Math and Physical Sciences division at (847) 543-2044.
MACHINE TOOL TRADES
Engineering, Math and Physical Sciences
Division, Room T302, (847) 543-2044
www.clcillinois.edu/programs/mtt

This program prepares students for employment and advancement in the machine tool field. Machinists are skilled workers who are able to read and interpret blueprints, use common hand tools, set up and operate metal cutting machines, and use precision measuring instruments. Advanced placement in this program is possible for experienced machinists. Apprenticeship and N.I.M.S. national credentialing credit is also available. Machine tool courses are approved by the United States Department of Labor, Bureau of Apprenticeship Training and the N.I.M.S. national certified program.

BASIC MACHINING – PHASE I
(Certificate) Plan 24MJ

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTT 110 Machine Trades Blueprint Reading</td>
<td>3</td>
</tr>
<tr>
<td>MTT 111 Machine Shop I</td>
<td>3</td>
</tr>
<tr>
<td>MTH 114 Applied Mathematics I</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND SEMESTER</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNC 110 CNC Operations I</td>
<td>3</td>
</tr>
<tr>
<td>MTT 210 Machine Shop II</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours for Certificate 15

Gainful Employment Information:
www.clcillinois.edu/gemtt

MACHINE TOOL TRADES – PHASE II
(Certificate) Plan 24SM

REQUIRED PHASE I COURSEWORK (SEE PHASE I AT LEFT) 15

FIRST SEMESTER 10
| MET 111 Manufacturing Processes | 3 |
| MTH 115 Applied Mathematics II | 3 |
| MTT 113 Grinding Technology | 3 |
| CNC 115 CNC Programming I or | |
| EWE 120 Job Readiness Skills | 1 |

SECOND SEMESTER 11
| EWE 220 Cooperative Work Experience I | 2 |
| MET 112 Basic Metallurgy I | 3 |
| MTT 212 Precision Machining/NIMS Credentialing | 3 |
| WLD 170 General Welding | 3 |

Total Hours for Certificate 36

Gainful Employment Information:
www.clcillinois.edu/gemtt

TOOL AND MOLD MAKER – PHASE III
(ADVANCED)
(Certificate) Plan 24SR

REQUIRED PHASE I AND PHASE II COURSEWORK (SEE ABOVE) 36

FIRST SEMESTER 9
| MTT 115 Introduction to Diemaking | 3 |
| MTT 116 Introduction to Moldmaking | 3 |
| MTT 211 Jig and Fixture Design | 3 |

SECOND SEMESTER 6
| CNC 217 Introduction to Wire EDM Machining | 3 |
| CNC 210 CNC Operations II or | |
| MTT 215 Diemaking II or | |
| MTT 216 Moldmaking II | 3 |

Total Hours for Certificate 51

Gainful Employment Information:
www.clcillinois.edu/gemtt
MACHINE TOOL TRADES

Degree: Associate in Applied Science, Machine Tool Trades
Plan 24MD

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

FIRST SEMESTER
- CMM 111 Communication Skills 3
- ENG 120 Technical Composition I or ENG 121 English Composition I 3
- MTH 114 Applied Mathematics I 3
- MTT 110 Machine Trades Blueprint Reading 3
- MTT 111 Machine Shop I 3

SECOND SEMESTER
- MET 111 Manufacturing Processes 3
- MET 112 Basic Metallurgy I 3
- MTH 115 Applied Mathematics II 3
- MTT 210 Machine Shop II 3
- Humanities/Fine Arts Elective 3

SUMMER SESSION
- MTT 211 Jig and Fixture Design 3
- Social Science Elective 3

THIRD SEMESTER
- ECO 110 Economics for Business and Industry 3
- MTT 113 Grinding Technology 3
- MTT 115 Introduction to Diemaking 3
- MTT 116 Introduction to Moldmaking 3
- MTT 212 Precision Machining/ NIMS Credentialing 3

FOURTH SEMESTER
- CNC 110 CNC Operations I 3
- CNC 115 CNC Programming I or EWE 120 Job Readiness Skills 1
- CNC 217 Introduction to Wire EDM Machining 3
- WLD 170 General Welding 3

SUMMER SESSION
- CNC 210 CNC Operations II or MTT 215 Diemaking II or MTT 216 Moldmaking 3
- EWE 220 Cooperative Work Experience I 2

Total Hours for A.A.S. Degree 66

For more information on recommended courses or program specific advising, contact faculty member Jeff Hines at (847) 543-2506 or the Engineering, Math and Physical Sciences division at (847) 543-2044.
DEGREES/CERTIFICATES

MECHANICAL ENGINEERING TECHNOLOGY
Engineering, Math and Physical Sciences Division, Room T302, (847) 543-2044
www.clcillinois.edu/programs/met

Degree: Associate in Applied Science, Mechanical Engineering Technology Plan 24MB

Mechanical engineering technicians are the semi-professional members of the engineer/scientist/technician team engaged in the design of machines, mechanisms, and other mechanical systems. Assignments may include drafting, designing, research and development, product and materials testing, and supervision. In addition to a broad based background in mechanical design, this program offers training on an industrial CAD system.

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>15-17</th>
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</thead>
<tbody>
<tr>
<td>CAD 170</td>
<td>Introduction to SolidWorks or</td>
</tr>
<tr>
<td>CAD 176</td>
<td>Introduction to Creo</td>
</tr>
<tr>
<td>ELC 171</td>
<td>Programmable Logic Controllers or</td>
</tr>
<tr>
<td>ARM 171</td>
<td>Automation I and</td>
</tr>
<tr>
<td>ARM 172</td>
<td>Automation II and</td>
</tr>
<tr>
<td>ARM 173</td>
<td>Automation III</td>
</tr>
<tr>
<td>MTH 117</td>
<td>Technical Mathematics I or</td>
</tr>
<tr>
<td>MTH 123</td>
<td>Trigonometry or</td>
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<tr>
<td>MTH 144</td>
<td>Precalculus or</td>
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<tr>
<td>MTH 145</td>
<td>Calculus and Analytic Geometry I</td>
</tr>
<tr>
<td>EGR 121</td>
<td>Engineering Graphics</td>
</tr>
<tr>
<td>MTT 111</td>
<td>Machine Shop I or</td>
</tr>
<tr>
<td>MTT 112</td>
<td>Machining Principles</td>
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</tbody>
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<thead>
<tr>
<th>SECOND SEMESTER</th>
<th>15-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>HET 111*</td>
<td>HVACR Electricity I or</td>
</tr>
<tr>
<td>EET 170</td>
<td>DC Circuit Fundamentals and</td>
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<tr>
<td>EET 174</td>
<td>AC Fundamentals or</td>
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<tr>
<td>ARM 156</td>
<td>Electrical Systems I and</td>
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<tr>
<td>ARM 157</td>
<td>Electrical Systems II and</td>
</tr>
<tr>
<td>ARM 158</td>
<td>Electrical Systems III</td>
</tr>
<tr>
<td>CMM 111</td>
<td>Communication Skills or</td>
</tr>
<tr>
<td>CMM 121</td>
<td>Fundamentals of Speech</td>
</tr>
<tr>
<td>MET 115</td>
<td>Industrial Pneumatics Hydraulics or</td>
</tr>
<tr>
<td>ARM 191</td>
<td>Pneumatics and Hydraulics I and</td>
</tr>
<tr>
<td>ARM 192</td>
<td>Pneumatics and Hydraulics II and</td>
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<tr>
<td>ARM 193</td>
<td>Pneumatics and Hydraulics III</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>THIRD SEMESTER</th>
<th>20-21</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGR 115</td>
<td>Applied Statics for Technology and</td>
</tr>
<tr>
<td>EGR 215</td>
<td>Mechanics of Material for Technology or</td>
</tr>
<tr>
<td>EGR 216</td>
<td>Statics &amp; Mechanics of Material for Technology</td>
</tr>
<tr>
<td>MET 111</td>
<td>Manufacturing Processes</td>
</tr>
<tr>
<td>MET 212</td>
<td>Mechanisms</td>
</tr>
<tr>
<td>ENG 120</td>
<td>Technical Composition I or</td>
</tr>
<tr>
<td>ENG 121</td>
<td>English Composition I</td>
</tr>
<tr>
<td>PHY 121</td>
<td>General Physics I</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FOURTH SEMESTER</th>
<th>17</th>
</tr>
</thead>
<tbody>
<tr>
<td>MET 231</td>
<td>Mechatronics or</td>
</tr>
<tr>
<td>ARM 196</td>
<td>Electrical Systems Capstone and</td>
</tr>
<tr>
<td>ARM 197</td>
<td>Pneumatic and Hydraulic Systems Capstone and</td>
</tr>
<tr>
<td>ARM 198</td>
<td>Complete Systems Integration</td>
</tr>
<tr>
<td>MET 214</td>
<td>Mechanical Design and Drafting</td>
</tr>
<tr>
<td>MET 215</td>
<td>Machine Design</td>
</tr>
<tr>
<td>MET 216</td>
<td>Applied Finite Element Analysis</td>
</tr>
</tbody>
</table>

| TOTAL HOURS FOR A.A.S. DEGREE | 67-71 |

Additional math may be required for students who choose to pursue a Bachelors degree in Mechanical Engineering Technology (BSMET). Contact faculty member Margie Porter at (847) 543-2904 for additional information.
MECHANICAL ENGINEERING TECHNOLOGY DESIGN I – IV CERTIFICATES

The following four certificates represent the four “rungs” of a career ladder in the Mechanical Engineering Technology design field. Each certificate represents specialty coursework that students must acquire as they move towards the MET degree.

MET I: TOOLBOX (Certificate) Plan 24MK

FIRST SEMESTER
MTT 111 Machine Shop I or MTT 112 Machining Principles 3
MET 111 Manufacturing Processes 3
EGR 121 Engineering Graphics 3
Total Hours for Certificate 9

MET II: NUTS AND BOLTS (Certificate) Plan 24ML

FIRST SEMESTER
CAD 170 Introduction to SolidWorks or CAD 176 Introduction to Creo 3
SUMMER SESSION
CNC 111 Geometric Dimensioning and Tolerancing 1
MET 214 * Mechanical Design and Drafting 3
Total Hours for Certificate 7

MET III: MECHATRONICS (Certificate) Plan 24MM

FIRST SEMESTER
MET 115 Industrial Pneumatics and Hydraulics 3
MET 131 Introduction to Robotics 3
SECOND SEMESTER
MET 231 * Mechatronics 3
Total Hours for Certificate 9

* additional prerequisite courses needed

MET IV: DESIGN AND INNOVATION (Certificate) Plan 24MN

FIRST SEMESTER
MET 212 Mechanisms 4
SECOND SEMESTER
MET 215 Machine Design 5
MET 216 Applied Finite Element Analysis 3
Total Hours for Certificate 17-18

Gainful Employment Information: www.clcillinois.edu/gemet

For more information on recommended courses or program specific advising, contact faculty member Margie Porter at (847) 543-2904 or the Engineering, Math and Physical Science division at (847) 543-2044.
WELDING TECHNOLOGY

Degree: Associate in Applied Science, Welding Technology
Plan 24WP

This degree program combines training with classes in the background knowledge needed by workers in welding occupations. Students practice and develop welding skills in the laboratory and may take an examination for certification. The program is for those who want to acquire the technical knowledge and skills required for workers in welding, fabrication, and related occupations. As a graduate of the Welding program, students may qualify for positions in business and industry such as machinery fabrication, structural fabrication, welding fitting and layout, automatic and semiautomatic welding, automatic flame cutter operation, millwright welding, plant maintenance, and quality control and development. The program offers students a background in manufacturing materials, processes, and systems, including shear and press brake operation, blueprint reading, and shop drawing and layout. The curriculum includes written and oral communications and general education classes and emphasizes related scientific, mathematical, and general mechanical principles.

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

FIRST SEMESTER 15
WLD 170 General Welding 3
WLD 113** Welding Blue Print Reading 3
MET 111 Manufacturing Processes 3
ENG 120 Technical Composition I or
ENG 121 English Composition I
MTH 114 Applied Mathematics I or
Higher Level Math 3

SECOND SEMESTER 15
WLD 171*** Gas Welding Cutting and Brazing 3
WLD 172** Shielded Metal Arc Welding 3
WLD 174*** Adv. Shielded Metal Arc Welding 3
WLD 175*** Gas Metal Arc Welding 3
CAD 117 Introduction to AutoCAD 3
MTT 112 Machining Principles 3

SUMMER SESSION 1
CNC 111 Geometric Dimensioning and Tolerancing 1

THIRD SEMESTER 15
WLD 174*** Adv. Shielded Metal Arc Welding 3
WLD 176** Welding Certification 3
WLD 178** Gas Tungsten Arc Welding 3
MET 112 Basic Metallurgy I 3
CMM 111 Communication Skills 3

FOURTH SEMESTER 12
WLD 177*** Applied Fabricating Processing 3
Advisor approval of one of the following:
CAD 170 Introduction to SolidWorks or
MTT 111 Machine Shop I or
LPO 111 Fundamentals of Light and Lasers 3
ECO 110 Economics for Business and Industry 3
Humanities or Fine Arts Elective 3

SUMMER SESSION 3
WLD 179* Gas Tungsten Arc Welding 3

Total Hours for A.A.S. 61

* Summer only
** Fall only
*** Spring only
# WELDING (Certificate) Plan 24WL

**FIRST SEMESTER**
- WLD 170 General Welding 3 credit hours
- WLD 113 Welding Blue Print Reading 3 credit hours
- MTH 114 Applied Mathematics I 3 credit hours
- MET 112 Basic Metallurgy 3 credit hours

**SECOND SEMESTER**
- WLD 171*** Gas Welding Cutting and Brazing 3 credit hours
- MET 113 Basic Metallurgy II or MET 111 Manufacturing Processes 3 credit hours
- WLD 175*** Gas Metal Arc Welding 3 credit hours

**THIRD SEMESTER**
- WLD 172** Shielded Metal Arc Welding 3 credit hours
- WLD 176** Welding Certification 3 credit hours

**FOURTH SEMESTER**
- WLD 117*** Applied Fabricating and Processing 3 credit hours
- WLD 174*** Advanced Shielded Metal Arc Welding 3 credit hours

**SUMMER SESSION**
- WLD 179* Gas Tungsten Arc Welding 3 credit hours

**Total Hours for Certificate**: 41-42 credit hours

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# GAS TUNGSTEN ARC WELDING (Certificate) Plan 24WM

**FIRST SEMESTER**
- MTH 114 Applied Mathematics I 3 credit hours
- WLD 113 Welding Blue Print Reading 3 credit hours
- WLD 170 General Welding 3 credit hours

**SECOND SEMESTER**
- WLD 171*** Gas Welding Cutting and Brazing 3 credit hours
- WLD 178** Gas Tungsten Arc Welding 3 credit hours

**THIRD SEMESTER**
- WLD 176** Welding Certification 3 credit hours

**FOURTH SEMESTER**
- WLD 117*** Applied Fabricating and Processing 3 credit hours

**SUMMER SESSION**
- WLD 179* Gas Tungsten Arc Welding 3 credit hours

**Total Hours for Certificate**: 24 credit hours

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# GAS METAL ARC WELDING (Certificate) Plan 24WO

**FIRST SEMESTER**
- MTH 114 Applied Mathematics I 3 credit hours
- WLD 113 Welding Blue Print Reading 3 credit hours
- WLD 170 General Welding 3 credit hours

**SECOND SEMESTER**
- WLD 172** Shielded Metal Arc Welding 3 credit hours
- WLD 174*** Advanced Shielded Metal Arc Welding 3 credit hours

**THIRD SEMESTER**
- WLD 176** Welding Certification 3 credit hours

**FOURTH SEMESTER**
- WLD 117*** Applied Fabricating and Processing 3 credit hours
- WLD 174*** Advanced Shielded Metal Arc Welding 3 credit hours

**Total Hours for Certificate**: 21 credit hours

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For more information on recommended courses or program specific advising, contact the Engineering, Math and Physical Science division at (847) 543-2044.
I WANT TO TRANSFER TO A FOUR-YEAR COLLEGE OR UNIVERSITY.

- **Associate in Arts (A.A.)** degree - typically ranges from 60-64 credit hours and should parallel the first two years of a liberal arts-related baccalaureate degree program.
- **Associate in Science (A.S.)** degree - typically ranges from 60-64 credit hours and should parallel the first two years of a science-related baccalaureate degree program.

There are other specialized Associate's transfer degrees in Engineering and Fine Arts. Some colleges will accept credits earned through an Associate in Applied Science (A.A.S) but it would be best to confirm with the school you plan to attend next.

Whatever your plan, it is best to think about what college and major you would like to transfer to and design your coursework around the requirements of that institution. Student development counselors are experts on transfer planning and are happy to help!

I WANT TO START WORKING IN MY CHOSEN FIELD.

- **Associate in Applied Science (A.A.S)** is a degree designed to help students get into their chosen careers with the knowledge and skills needed by specific industries. These programs were created to provide tangible abilities in a field so that you can either find a job or upgrade your current job when you leave CLC.
- **Career Certificates** - typically range from 9-30 credit hours and focus on a specialized skill.

I AM NOT REALLY SURE WHAT I WANT TO DO NEXT.

That is okay! At CLC, there are many people such as student development counselors, career counselors, academic advisors, and faculty who can help you discover your path. Page 21 has contact information for the people that can help. If you would like to discuss career interests or talk to someone about taking classes that could work for many degree or certificate options, stop by the Counseling, Advising, and Transfer Center.

This catalog is organized by fields of interest. Reading through this information may help spur an idea for you to explore further. For example, you may be interested in the Healthcare field; the Wellness and Health Sciences field of interest offers many options for you to consider.
WHAT IS YOUR PLAN AFTER CLC?

I WANT TO TRANSFER TO A FOUR-YEAR COLLEGE OR UNIVERSITY.

The Associate in Arts (A.A.), Associate in Science (A.S.) or other specially focused transfer degrees will probably be your best bet.

• **Associate in Arts (A.A.) degree** - typically ranges from 60-64 credit hours and should parallel the first two years of a liberal arts-related baccalaureate degree program.
• **Associate in Science (A.S.) degree** - typically ranges from 60-64 credit hours and should parallel the first two years of a science-related baccalaureate degree program.
• There are other specialized Associate’s transfer degrees in Engineering and Fine Arts (Art and Music).

Some colleges will accept credits earned through an Associate in Applied Science (A.A.S.) but it would be best to confirm with the school you plan to attend next.

Whatever your plan, it is best to think about what college and major you would like to transfer to and design your coursework around the requirements of that institution. Student development counselors are experts on transfer planning and are happy to help!

I WANT TO START WORKING IN MY CHOSEN FIELD.

The Associate in Applied Science (A.A.S) is a degree designed to help students get into their chosen careers with the knowledge and skills needed by specific industries. These programs were created to provide tangible abilities in a field so that you can either find a job or upgrade your current job when you leave CLC.

Many programs also offer short-term certificates that can help get you into the workforce quickly. These certificates may cover a specific proficiency or technical ability to give you a jumpstart in the field. Many can be stacked together to work toward a degree.

• **Associate in Applied Science (A.A.S.) degree** – typically ranges from 60-72 credit hours and focuses on real-world career skills.
• **Career Certificates** – typically range from 9-30 credit hours and focus on a specialized skill.

I AM NOT REALLY SURE WHAT I WANT TO DO NEXT.

*That is okay!* At CLC, there are many people such as student development counselors, career counselors, academic advisors, and faculty who can help you discover your path. Page 21 has contact information for the people that can help. If you would like to discuss career interests or talk to someone about taking classes that could work for many degree or certificate options, stop by the Counseling, Advising, and Transfer Center.

This catalog is organized by fields of interest. Reading through this information may help spur an idea for you to explore further. For example, you may be interested in the Healthcare field; the Wellness and Health Sciences field of interest offers many options for you to consider.
ASSOCIATE IN ARTS (13AB)

Students may obtain an Associate in Arts degree from the College of Lake County by successfully meeting college requirements and course requirements outlined below.

The College of Lake County is a participant in the Illinois Articulation Initiative (IAI), a major statewide cooperative agreement that eases the transfer process of the completed Illinois General Education Core Curriculum among participating institutions.

COMMUNICATION - 9 CREDIT HOURS
A grade of C or better is required for both ENG courses.

- CMM 121 Fundamentals of Speech (3)
- ENG 121 English Composition I (3)
- ENG 122 English Composition II (3) OR Advanced Composition: Scientific and Technical Communications (3)

SOCIAL AND BEHAVIORAL SCIENCE - 9 CREDIT HOURS
Select courses from at least two different disciplines i.e. different prefixes.

- ANT 121+ Introduction to Anthropology (3) S1 900N
- ANT 221+ Cultural Anthropology (3) S1 901N
- ANT 222 Introduction to Physical Anthropology (3) S1 902
- ANT 224 Introduction to Archaeology (3) S1 903
- ANT 228+ Cross-Cultural Relationships (3) S1 904D
- ECO 221 Principles of Microeconomics (3) S3 901
- ECO 222 Principles of Macroeconomics (3) S3 902
- GEG 122 Cultural Geography (3)
- GEG 123 World Regional Geography (3) S4 900N
- GXS 121+ Introduction to Gender Studies (3) S9 900
- GXS 229+ Sex, Gender, and Power (3) S7 904D
- HST 121+ History of Western Civilization to 1500 (3) S2 902
- HST 122+ History of Western Civilization 1500 to Present (3) S2 903
- HST 126+ History of Contemporary Non-Western Civilization (3)

PHYSICAL AND LIFE SCIENCES - 7 CREDIT HOURS
One course must be selected from Physical Science and one course from Life Science. At least one course must be a laboratory science course (L).

PHYSICAL SCIENCE
- CHM 120L General Chemistry (4)
- CHM 121L General Chemistry I (5)
- CHM 140 Calculus and Analytic Geometry I (5) M1 900
- CHM 142L Calculus and Analytic Geometry II (4) M1 900-B
- ESC 120L Earth Science (4)
- ESC 121L Geology of National Parks (3)
- ESC 123 Introduction to Meteorology (3) P1 905
- ESC 124 Oceanography (3) P1 905
- ESC 125 History of Chinese Culture and Society (3) S2 902
- ESC 227 History of United States to 1876 (3) S2 900
- ESC 221 History of United States History 1876 to Present (3) S2 901
- ESC 245+ History of Latin America to 1825 (3) S2 902
- ESC 246+ History of Latin America from 1825 (3) S2 902
- ESC 260 American National Politics (3) S5 900
- ESC 262 State and Local Politics (3) S5 902
- ESC 262+ Comparative Political Systems (3) S5 905
- ESC 263+ Introduction to International Relations (3) S5 904N
- ESC 264 Introduction to Psychology (3) S6 900
- ESC 265 Lifespan Development (3) S6 902
- ESC 266 Child Growth and Development (3) S6 903
- ESC 267 Social Psychology (3) S8 900
- ESC 268 Adolescent Psychology (3) S6 904
- ESC 269 Introduction to Sociology (3) S7 907
- ESC 270 Social Problems (3) S7 901
- ESC 271 Sociology of the Family (3) S7 902
- ESC 272 Class, Race, and Gender (3) S7 903D
- ESC 273 Sex, Gender, and Power (3) S7 904D

LIFE SCIENCE
- BIO 120L Environmental Biology (4) L1 905L
- BIO 123L Principles of Biology (4) L1 900L
- BIO 127 Introduction to Evolution (3) L1 907
- BIO 140 Environmental Biology without Lab (3) L1 905
- BIO 141L Concepts of Biology (4) L1 900L
- BIO 149 Genetics and Society (3) L1 906
- BIO 161L General Biology I (4) L1 910L

MATHEMATICS – 3 CREDIT HOURS
- MTH 127 Finite Mathematics I (3) M1 906
- MTH 140 Contemporary Mathematics (3) M1 904
- MTH 141 Quantitative Literacy (3) M1 901
- MTH 142 General Education Statistics (3) M1 902
- MTH 145 Calculus and Analytic Geometry I (5) M1 900
- MTH 146 Calculus and Analytic Geometry II (4) M1 900-2
- MTH 221 Mathematics for Elementary Teaching II (3) M1 903
- MTH 222 Business Statistics (4) M1 902
- MTH 224 Calculus for Business and Social Science (4) M1 900-B
- MTH 244 Discrete Mathematics (3) M1 905
- MTH 246 Calculus and Analytic Geometry III (5) M1 900-3
HUMANITIES AND FINE ARTS – 9 CREDIT HOURS
At least one course must be selected from the Humanities section and one course from the Fine Arts section.

HUMANITIES
- ARA 222+ Intermediate Modern Standard Arabic II (4) H1 900
- CHI 222+ Intermediate Chinese II (4) H1 900
- ENG 129+ Women in Literature (3) H3 911D
- ENG 223+ Early American Literature (3) H3 914
- ENG 225+ Survey of British Literature I (3) H3 912
- ENG 226+ Survey of British Literature II (3) H3 913
- ENG 227+ Introduction to Shakespeare (3) H3 905
- ENG 228+ World Literature (3) H3 906
- ENG 229+ 20th Century American Literature (3) H3 915
- ENG 241+ Introduction to Poetry (3) H3 903
- ENG 243+ Introduction to Fiction (3) H3 901
- ENG 244+ Mythology and Fairy Tales (3) H9 901
- ENG 246+ Latin American Writers (3) H9 908N
- ENG 247+ International Women Writers (3) H3 911D
- ENG 249+ Children’s Literature (3) H3 918
- FRN 222+ Intermediate French II (4) H1 900
- FRN 223+ French Civilization I (3) H1 900
- FRN 224+ French Civilization II (3) H1 900
- GER 222+ Intermediate German II (4) H1 900
- GER 224+ German Civilization II (3) H1 900
- HUM 121+ Humanities: Ancient Times to the Middle Ages (3) H9 902
- HUM 122+ Humanities: Renaissance to the Present (3) H9 903
- HUM 127+ Critical Thinking (3) H4 906
- HUM 128+ Introduction to Middle-Eastern Civilizations (3) H2 903 N
- HUM 129+ Introduction to East Asian Civilization (3) HF 904 N
- HUM 141+ World Civilizations 20/21st Century (3) HF 904 N
- HUM 221+ American Decades (3) HF 906D
- HUM 226+ Women and the Arts (3) HF 907D
- ITL 222+ Intermediate Italian II (4) H1 900
- ITL 223+ Italian Civilization I (3) H1 900
- JPN 222+ Intermediate Japanese II (4) H1 900
- LAT 121+ Introduction to Latin-American Studies (3) HF 906D
- PHI 121+ Introduction to Philosophy (3) H4 900
- PHI 122+ Logic (3) H4 906
- PHI 123+ Philosophy of Religion (3) H4 905
- PHI 125+ Introduction to Ethics (3) H4 904
- PHI 126+ World Religions (3) H5 904N
- PHI 128+ Introduction to Social and Political Philosophy (3) H4 907
- PHI 221+ Asian Philosophy (3) H4 903N
- RUS 222+ Intermediate Russian II (4) H1 900
- SPA 222+ Intermediate Spanish II (4) H1 900
- SPA 223+ Spanish Civilization I (3) H1 900
- SPA 224+ Spanish Civilization II (3) H1 900

FINE ARTS
- ART 121+ Introduction to Art (3) F2 900
- ART 240+ History of Art I (3) F2 901
- ART 241+ History of Art II (3) F2 902
- ART 260+ History of Photography (3) F2 904
- ART 261+ Non-Western Art History (3) F2 903N
- DNC 240+ The Art of Dance (3) F1 906
- HUM 121+ Humanities: Ancient Times to the Middle Ages (3) HF 902
- HUM 122+ Humanities: Renaissance to the Present (3) HF 903
- HUM 123+ Introduction to Film (3) F2 908
- HUM 126+ Introduction to the Performing Arts (3) F3 900
- HUM 129+ Introduction to East Asian Civilization (3) HF 904 N
- HUM 140+ Introduction to International Film (3) F2 909
- HUM 141+ World Civilizations 20/21st Century (3) HF 904N
- HUM 221+ American Decades (3) HF 906D
- HUM 222+ Film and Society (3) F2 908
- HUM 226+ Women and the Arts (3) HF 907D
- MUS 124+ Music Appreciation (3) F1 900
- MUS 224+ Music Literature (3) F1 902
- THE 121+ Introduction to Theatre I (3) F1 907
- THE 123+ Diversity in American Theatre (3) F1 909D

INTERNATIONAL/MULTICULTURAL REQUIREMENTS
Choose one course with a + following the course number OR one of the following:
- ASI 121, CMM 127, ECO 225, EDU 224, ENG 263, 264, GXS 221, 299, HST 128, LAT 121, PDS 123, PHI 128, 129, PSY 229, SSI 121.
- This course can fulfill both the I/M requirement and a Social Science, Humanities, Fine Arts, or Elective requirement. A B.A. degree at many four year colleges may require college level foreign language.

AREA OF CONCENTRATION/ELECTIVE REQUIREMENTS - 23 CREDIT HOURS
- Choose elective courses with a 1.1 (transfer course) PCS code that relate to your intended major. Students should choose electives only after consulting with an Advising Professional. The PCS code for each course is listed in the course descriptions starting on page 224 of this catalog. Up to six hours of courses with a 1.2 (career course) PCS code may be used as general electives in the degree. All 199 courses are exempt from this rule. Students should select these courses only after they have verified their transferability with their Advising Professional or the transfer institution. EDU 999 does not count toward this six-hour limit.
- Students may not receive credit towards degree for both CHM 140 and CHM 142, or both BIO 120 and BIO 140, or both ESC 123 and ESC 127.
- Students with credit for both MTH 122 and MTH 123 will not be given credit for MTH 144. Students may not receive credit towards degree for both (MTH 122 and MTH 144) or (MTH 123 and MTH 144).
- Please review lists of recommended courses for individual programs of study listed on pages 58-262 in this catalog.

OTHER GRADUATION REQUIREMENTS
- Cumulative CLC GPA of 2.00 or higher
- Completion of at least 15 credit hours at CLC
- Petition to Graduate: The Petition to Graduate form must be submitted to the Welcome and One-Stop Center to have your degree processed. It can be found online at www.clcillinois.edu/petition. Contact Admissions for more information at (847) 543-2061. Deadlines to Petition: Spring – February 15; Summer – July 1; Fall – October 1

Total A.A. Degree Requirements 60 credit hours
ASSOCIATE IN SCIENCE (11AB)

The Associate in Science degree is designed to parallel the first two years of a science-related baccalaureate degree program. Students complete freshman and sophomore level courses for majors in such areas as biology, chemistry, physics and related professional fields. Since differences in course requirements exist at different universities and in different science disciplines within the same university, it is important that students work closely with a CLC student development counselor and their transfer school to choose appropriate courses. Completion of the A.S. degree does not fulfill the requirements of the Illinois Articulation Initiative General Education Core Curriculum (IAI GECC). Many science majors are highly structured and require extensive sequential lower-division mathematics and science courses. In order to take courses required for the major in a similar pattern to those of the freshman and sophomore students at a university, some general education courses are postponed until after transfer. Students then either complete the general education requirements of the transfer institution or are given the opportunity to complete the IAI.

COMMUNICATION - 9 CREDIT HOURS
A grade of C or better is required for both ENG courses.

☐ CMM 121 Fundamentals of Speech (3)
☐ ENG 121 English Composition I (3)
☐ ENG 122 English Composition II (3)
☐ ENG 126 Advanced Composition: Scientific and Technical Communications (3)

SOCIAL AND BEHAVIORAL SCIENCE - 6 CREDIT HOURS
Select courses from at least two different disciplines i.e. different prefixes.

☐ ANT 121+ Introduction to Anthropology (3)
☐ ANT 122 Cultural Anthropology (3)
☐ ANT 221+ Introduction to Physical Anthropology (3)
☐ ANT 222 Introduction to Archaeology (3)
☐ ANT 224 Cross-Cultural Relationships (3)
☐ ECO 221 Principles of Macroeconomics (3)
☐ ECO 222 Principles of Microeconomics (3)

☐ GEG 122 Cultural Geography (3)
☐ GEG 123 World Regional Geography (3)
☐ GXS 121+ Introduction to Gender Studies (3)
☐ GXS 229+ Sex, Gender, and Power (3)
☐ HST 121+ History of Western Civilization to 1500 (3)
☐ HST 122+ History of Western Civilization 1500 to Present (3)
☐ HST 126+ History of Contemporary Non-Western Civilization (3)
☐ HST 127+ History of Chinese Culture and Society (3)
☐ HST 221 United States History to 1876 (3)
☐ HST 222 United States History 1876 to Present (3)
☐ HST 245+ History of Latin America to 1825 (3)
☐ HST 246+ History of Latin America from 1825 (3)
☐ PSC 121 American National Politics (3)
☐ PSC 122 State and Local Politics (3)
☐ PSC 221+ Comparative Political Systems (3)
☐ PSC 222+ International Relations (3)
☐ PSY 121 Introduction to Psychology (3)
☐ PSY 220 Lifespan Development (3)
☐ PSY 222 Child Growth and Development (3)
☐ PSY 225 Social Psychology (3)
☐ PSY 226 Adolescent Psychology (3)
☐ SOC 121 Introduction to Sociology (3)
☐ SOC 222 Social Problems (3)
☐ SOC 224 Sociology of the Family (3)
☐ SOC 225+ Class, Race, and Gender (3)
☐ SOC 229+ Sex, Gender, and Power (3)

PHYSICAL AND LIFE SCIENCES - 11 CREDIT HOURS
One course must be selected from Physical Science and one course from Life Science. Both courses must be IAI and laboratory science courses (L). A third course should be selected from the Physical Science course list or the Life Science course list or the Additional Science course list.

☐ CHM 120L (LAB) Chemical Concepts (4)
☐ CHM 121L (LAB) General Chemistry I (5)
☐ CHM 142L (LAB) Chemistry for a Changing World (4)
☐ ESC 120L (LAB) Earth Science (4)
☐ ESC 121L (LAB) Physical Geology (4)
☐ ESC 127L (LAB) Introduction to Meteorology (4)
☐ ESC 140L (LAB) Introduction to Astronomy (4)
☐ ECO 120L (LAB) Physical Geography (4)
☐ PHY 120L (LAB) Practical Aspects of Physics (4)
☐ PHY 121L (LAB) General Physics I (5)
☐ PHY 123L (LAB) Physics for Science and Engineering I (5)

LIFE SCIENCE
☐ BIO 120L (LAB) Environmental Biology (4)
☐ BIO 123L (LAB) Principles of Biology (4)
☐ BIO 141L (LAB) Concepts of Biology (4)
☐ BIO 161L (LAB) General Biology I (4)

ADDITIONAL SCIENCE COURSE LIST
Any BIO, CHM, ESC, GEG, HRT or PHY course with a 1.1 PCS code, excluding GEG 122 and GEG 123. The PCS code for each course is listed in the course descriptions starting on page 263 of this catalog.

MATHEMATICS – 7 CREDIT HOURS
One course MUST be selected from the courses with an IAI number (shown in bold) in order to meet CLC graduation requirements.

☐ MTH 121 Mathematics for Elementary Teaching (3)
☐ MTH 122 College Algebra (4)
☐ MTH 123 Trigonometry
☐ MTH 127 Finite Mathematics I (3)
☐ MTH 144 Precalculus (5)
☐ MTH 145 Calculus and Analytic Geometry I (5)
☐ MTH 146 Calculus and Analytic Geometry II (4)
☐ MTH 221 Mathematics for Elementary Teaching II (3)
☐ MTH 222 Business Statistics (4)

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HUMANITIES AND FINE ARTS – 6 CREDIT HOURS

At least one course must be selected from the Humanities section and one course from the Fine Arts section.

HUMANITIES

☐ ARA 222+ Intermediate Modern Standard Arabic II (4) H1 900
☐ CHI 222+ Intermediate Chinese II (4) H1 900
☐ ENG 129+ Women in Literature (3) H3 911D
☐ ENG 223 Early American Literature (3) H3 914
☐ ENG 225 Survey of British Literature I (3) H3 912
☐ ENG 226 Survey of British Literature II (3) H3 913
☐ ENG 227 Introduction to Shakespeare (3) H3 905
☐ ENG 228+ World Literature (3) H3 906
☐ ENG 229 20th Century American Literature (3) H3 915
☐ ENG 241 Introduction to Poetry (3) H3 903
☐ ENG 243 Introduction to Fiction (3) H3 901
☐ ENG 244+ Mythology and Fairy Tales (3) H3 901
☐ ENG 246+ Latin American Writers (3) H3 908N
☐ ENG 247+ International Women Writers (3) H3 911D
☐ ENG 249 Children’s Literature (3) H3 918
☐ FRN 222+ Intermediate French II (4) H1 900
☐ FRN 223 French Civilization I (3) H1 900
☐ GER 222+ German Civilization II (3) H1 900
☐ GER 224 Intermediate German II (4) H1 900
☐ HUM 121+ Humanities: Ancient Times to the Middle Ages (3) H3 902
☐ HUM 122+ Humanities: Renaissance to the Present (3) H3 903
☐ HUM 127 Critical Thinking (3) H4 906

FINE ARTS

☐ DNC 240+ The Art of Dance (3) F1 906
☐ HUM 121+ Humanities: Ancient Times to the Middle Ages (3) H3 902
☐ HUM 122+ Humanities: Renaissance to the Present (3) H3 903
☐ HUM 123+ Introduction to Film (3) F2 908
☐ HUM 126+ Introduction to the Performing Arts (3) F9 900
☐ HUM 129+ Introduction to East Asian Civilization (3) H3 904 N
☐ HUM 140+ Introduction to International Film (3) F2 909
☐ HUM 141+ World Humanities 20/21 Century (3) H3 904 N
☐ HUM 121+ American Decades (3) H3 906D
☐ HUM 222 Film and Society (3) F2 908
☐ HUM 222+ Women and the Arts (3) H3 907D
☐ MUS 124+ Music Appreciation (3) F1 900
☐ MUS 224+ Music Literature (3) F1 902
☐ THE 121+ Introduction to Theatre I (3) F1 907
☐ THE 123+ Diversity in American Theatre (3) F1 909D

INTERNATIONAL/MULTICULTURAL REQUIREMENTS

Include one course in International/Multicultural Education—Choose one course with a + following the course number.

AREA OF CONCENTRATION/ELECTIVE REQUIREMENTS - 21 CREDIT HOURS

• Choose elective courses with a 1.1 (transfer course) PCS code that relate to your intended major. Students should choose electives only after consulting with an Advising Professional. The PCS code for each course is listed in the course descriptions starting on page 263 of this catalog.
• Exception: Up to six hours of courses with a 1.2 (career course) PCS code may be used as general electives in the degree. All 199 courses are exempt from this rule. Students should select these courses only after they have verified their transferability with their Advising Professional or the transfer institution. EDU 999 does not count toward this six-hour limit.
• Students may not receive credit towards degree for both CHM 140 and CHM 142, or both BIO 120 and BIO 140, or both ESC 123 and ESC 127.
• Students with credit for both MTH 122 and MTH 133 will not be given credit for MTH 144. Students may not receive credit towards degree for both MTH 122 and MTH 144 or (MTH 123 and MTH 144).
• Please review lists of recommended courses for individual programs of study listed on pages 58-262 in this catalog.

Total A.S. Degree Requirements

60 credit hours

OTHER GRADUATION REQUIREMENTS

☐ Cumulative CLC GPA of 2.00 or higher
☐ Completion of at least 15 credit hours at CLC
☐ Petition to Graduate: The Petition to Graduate form must be submitted to the Welcome and One-Stop Center to have your degree processed. It can be found online at www.clcillinois.edu/petition. Contact Admissions for more information at (847) 543-2061. Deadlines to Petition: Spring – February 15; Summer – July 1; Fall – October 1
### BIOLOGICAL SCIENCES

**Biological and Health Sciences Division**  
Room B213 (847) 543-2042  
www.clcillinois.edu/programs/bio

**Degree:** Associate in Science  
Plan 11AB

(Agriculture/Crop Science, Biology, Botany, Cellular and Molecular Biology, Ecology, Microbiology, Natural Resource Management and Zoology)

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

#### FIRST SEMESTER  
**15**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>BIO 161*</td>
<td>General Biology I</td>
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<tr>
<td>CHM 121*</td>
<td>General Chemistry I</td>
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<td>ENG 121</td>
<td>English Composition I or Social and Behavioral Sciences Elective</td>
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#### SECOND SEMESTER  
**18**

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<td>ENG 122</td>
<td>English Composition II or Advanced Composition: Scientific and Technical Composition</td>
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<td>ENG 126</td>
<td>Trigonometry</td>
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#### THIRD SEMESTER  
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<tr>
<td>BIO 221</td>
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<td>CHM 222*</td>
<td>Organic Chemistry I</td>
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<td>CMM 121</td>
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#### FOURTH SEMESTER  
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<td>CHM 223*</td>
<td>Organic Chemistry II</td>
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<td>Fine Arts Elective</td>
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</tbody>
</table>

* Some transfer institutions may accept sequential courses (I and II) only if both courses are taken. Check with transfer institution.

**Note:** This plan includes recommendations for students who plan to major in this subject at a four year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses or program specific advising, contact the following faculty members or the Biological and Health Sciences Division at (847) 543-2042.

- Kelly Cartwright
- Jason Cashmore
- Mark Coykendall
- Kristi Dameron
- Lakshmi Gollapudi
- Marsha Hay
- Branko Jablanovic
- Shane Jones
- Elisabeth Martin
- Liz O’Grady
- Bob Remedi
- Jaenine Seitz-Partridge
- Cynthia Trombino
- Carol Wismer
**CHEMISTRY**

Biological and Health Sciences Division  
Room B213 (847) 543-2042  
www.clcillinois.edu/programs/chm

**Degree:** Associate in Science  
Plan 11AB

The following courses are **recommended** for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are **strongly encouraged** to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37. All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

### FIRST SEMESTER  
16

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<th>Course Code</th>
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<td>English Composition I</td>
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<td>MTH 145</td>
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<td>Geometry I</td>
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### SECOND SEMESTER  
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<td>Scientific and Technical</td>
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<td>Composition</td>
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<td>ENG 126</td>
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<td>Geometry II</td>
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<td>BIO 161*</td>
<td>General Biology I</td>
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### THIRD SEMESTER  
16

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<td>CHM 222*</td>
<td>Organic Chemistry I</td>
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<td>PHY 121*</td>
<td>General Physics I</td>
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<td>CMM 121</td>
<td>Fundamentals of Speech</td>
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<td></td>
<td>Social and Behavioral</td>
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<td></td>
<td>Science Elective</td>
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### FOURTH SEMESTER  
16

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<td>PHY 122*</td>
<td>General Physics II</td>
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<td></td>
<td>Science Elective</td>
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<td></td>
<td>Humanities Elective</td>
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* Some transfer institutions may accept sequential courses (I and II) only if both courses are taken. Check with transfer institution.

**Note:** This plan includes recommendations for students who plan to major in this subject at a four year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses or program specific advising, contact the following faculty members or the Biological and Health Sciences Division at (847) 543-2042.

Ahmad Audi | Elbek Kurbanov | Adina Ott  
Tara Simmons | Jeanne Simonsden  
Beth Wilson
**EARTH SCIENCE**
Engineering, Math and Physical Sciences Division, Room T302, (847) 543-2044
www.clcillinois.edu/programs/esc

**Degree:** Associate in Science
**Plan 11AB**

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

**FIRST SEMESTER** 16-19

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<td>ENG 121</td>
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<td>ESC 120</td>
<td>Earth Science</td>
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<td>MTH 144</td>
<td>Precalculus or</td>
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<td>MTH 123</td>
<td>Trigonometry</td>
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<tr>
<td>ESC 123*</td>
<td>Introduction to Meteorology or</td>
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<td>ESC 127*</td>
<td>Introduction to Meteorology with Lab</td>
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**SECOND SEMESTER** 15-16

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<td>ENG 122</td>
<td>English Composition II</td>
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<td>MTH 145</td>
<td>Calculus and Analytic Geometry I</td>
<td>5</td>
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<tr>
<td>BIO 120</td>
<td>Environmental Biology</td>
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<tr>
<td>ESC 121</td>
<td>Physical Geology or</td>
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<tr>
<td>ESC 128</td>
<td>Great Mysteries of the Earth</td>
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**THIRD SEMESTER** 15-16

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CMM 121</td>
<td>Fundamentals of Speech</td>
<td>3</td>
</tr>
<tr>
<td>ESC 140*</td>
<td>Introduction to Astronomy with LAB or</td>
<td>3-4</td>
</tr>
<tr>
<td>ESC 141*</td>
<td>Introduction to Astronomy</td>
<td></td>
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</table>

**FOURTH SEMESTER** 15-18

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ESC Course Electives</td>
<td>6-9</td>
<td></td>
</tr>
<tr>
<td>Social and Behavioral Science Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Life Science</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** This plan includes recommendations for students who plan to major in this subject at a four year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses or program specific advising, contact the following faculty or the Engineering, Math and Physical Sciences Division at (847) 543-2044.

Ryan Cumpston | Eric Priest | Xiaoming Zhai
GEOGRAPHY
Engineering, Math and Physical Sciences Division, Room T302, (847) 543-2044
www.clcillinois.edu/programs/geg

Degree: Associate in Arts
Plan 13AB

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37. All course prerequisites must be met.

Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

FIRST SEMESTER 16-17
ENG 121 English Composition 3
GEG 120 Principles of Physical Geography 4
MTH 141 Quantitative Literacy or
MTH 142 General Education Statistics or
MTH 222 Business Statistics 3-4
GEG 122 Cultural Geography** 3

SECOND SEMESTER 15
ENG 122 English Composition II 3
ANT 121 Introduction to Anthropology 3
ECO 221 Principles of Macroeconomics 3
HST 121 History of Western Civilization to 1500 3
GEG 122 Cultural Geography** 3

THIRD SEMESTER 15
CMM 121 Fundamentals of Speech 3
Fine Arts Elective* 3
Humanities Elective* 3
GEG 123 World Regional Geography** 3
HST 122 History of Western Civilization from 1500 ** 3

FOURTH SEMESTER 14
Concentration Elective 2
Concentration Elective 3
Concentration Elective 3
Concentration Elective 3
Concentration Elective 3

* See pages 194-195 for course selections
** Recommended area of concentration elective

Note: This plan includes recommendations for students who plan to major in this subject at a four year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses or program specific advising, contact faculty member Ty Liles at (847) 543-2670 or the Engineering, Math and Physical Sciences Division at (847) 543-2044.
**MATHEMATICS**  
Engineering, Math and Physical Sciences Division, Room T302, (847) 543-2044  
www.clcillinois.edu/programs/mth

**Degree: Associate in Science**  
Plan 11AB

The following courses are **recommended** for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are **strongly encouraged** to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37. All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

**FIRST SEMESTER**  
14-16

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENG 121</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MTH 145</td>
<td>Calculus and Analytic Geometry I</td>
<td>5</td>
</tr>
<tr>
<td>PHI 122</td>
<td>Logic</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Physical and Life Science Elective (not Physics)</td>
<td>3-5</td>
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**SECOND SEMESTER**  
16-17

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MTH 146</td>
<td>Calculus and Analytic Geometry II</td>
<td>4</td>
</tr>
<tr>
<td>MCS 140</td>
<td>Computer Programming I or</td>
<td></td>
</tr>
<tr>
<td>MCS 141</td>
<td>Computer Science I</td>
<td>3-4</td>
</tr>
<tr>
<td>ENG 122</td>
<td>English Composition II or</td>
<td></td>
</tr>
<tr>
<td>ENG 126</td>
<td>Advance Composition: Scientific and Technical Communication</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Social and Behavioral Sciences Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities and Fine Arts Elective</td>
<td>3</td>
</tr>
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**THIRD SEMESTER**  
16

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MTH 246</td>
<td>Calculus and Analytic Geometry III</td>
<td>5</td>
</tr>
<tr>
<td>MTH 227</td>
<td>Ordinary Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>PHY 123</td>
<td>Physics for Science and Engineering I</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Social and Behavioral Sciences Elective</td>
<td>3</td>
</tr>
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</table>

**FOURTH SEMESTER**  
15-17

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CMM 121</td>
<td>Fundamentals of Speech</td>
<td>3</td>
</tr>
<tr>
<td>MCS 142</td>
<td>Computer Programming II</td>
<td>3</td>
</tr>
<tr>
<td>MTH 225</td>
<td>Linear Algebra or</td>
<td></td>
</tr>
<tr>
<td>MTH 244</td>
<td>Discrete Mathematics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities and Fine Arts Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Physical and Life Science Elective</td>
<td>3-5</td>
</tr>
</tbody>
</table>

Note: Some students may require pre-calculus course work. Discussing your particular situation with a mathematics advisor is the best way to plan an appropriate program.

**Note:** This plan includes recommendations for students who plan to major in this subject at a four year school. Students who follow this plan will meet the requirements of a general transfer degree (A.A. or A.S). The CLC degree earned will be a general transfer degree, not a degree in this specific area of study.

For more information on recommended courses or program specific advising, contact the following faculty or the Engineering, Math and Physical Sciences Division at (847) 543-2044.

Jeffrey Andrews | Mark Beintema  
Kimberly Boyke | Donna Carlson  
Natalia Casper | Jason Hasbrouck  
Kim Hasbrouck | Laura Hobart  
Byron Hunter | Saehan Hwang  
Jeffrey Mudrock | Annette Nehring  
Glady's Poma | Scott Reed  
Mark Smith | Jon Sprague  
Stewart Thornburgh | Christopher Wyniawskyj
**PHYSICS**

Engineering, Math and Physical Sciences Division, Room T302, (847) 543-2044  
www.clcillinois.edu/programs/phy

*Degree: Associate in Science*  
Plan 11AB

The following courses are **recommended** for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are **strongly encouraged** to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>14-16</th>
</tr>
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<tbody>
<tr>
<td>ENG 121</td>
<td>English Composition</td>
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<tr>
<td>MTH 145</td>
<td>Calculus and Analytic Geometry I</td>
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<tr>
<td></td>
<td>Life Science Elective</td>
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<tr>
<td></td>
<td>(Recommended: CHM 121 General Chemistry I)</td>
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<td></td>
<td>Social Science Elective</td>
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<table>
<thead>
<tr>
<th>SECOND SEMESTER</th>
<th>17</th>
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<tbody>
<tr>
<td>ENG 122</td>
<td>English Composition II or Advanced Composition: Scientific and Technical Communications</td>
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<tr>
<td>ENG 126</td>
<td>Life Science Elective (Recommended: CHM 123 General Chemistry II)</td>
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<tr>
<td>MTH 146</td>
<td>Calculus and Analytic Geometry II</td>
</tr>
<tr>
<td>PHY 123</td>
<td>Physics for Science and Engineers I</td>
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</table>

<table>
<thead>
<tr>
<th>THIRD SEMESTER</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMM 121</td>
<td>Fundamentals of Speech</td>
</tr>
<tr>
<td>PHY 124</td>
<td>Physics for Science and Engineering II</td>
</tr>
<tr>
<td>MTH 246</td>
<td>Calculus and Analytic Geometry III</td>
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<td>Social Science Elective</td>
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<tr>
<th>FOURTH SEMESTER</th>
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<tbody>
<tr>
<td>MTH 227</td>
<td>Ordinary Differential Equations</td>
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<tr>
<td>MCS 140</td>
<td>Computer Programming</td>
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<tr>
<td></td>
<td>Humanities or Fine Arts Elective</td>
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<tr>
<td></td>
<td>Humanities or Fine Arts Elective (I/M)</td>
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<table>
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<tr>
<th>SUMMER SESSION</th>
<th>4</th>
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</thead>
<tbody>
<tr>
<td>PHY 221</td>
<td>Physics for Science and Engineering III</td>
</tr>
</tbody>
</table>

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David Boyke | Ana Mazilu
SUSTAINABILITY AND HORTICULTURE

DEGREES/CERTIFICATES

ARBORICULTURE
HORTICULTURE PRODUCTION
LANDSCAPE CONSTRUCTION AND MAINTENANCE
LANDSCAPE DESIGN
NATURAL AREAS MANAGEMENT
SUSTAINABLE AGRICULTURE
SUSTAINABILITY PROGRAMS

I WANT TO TRANSFER TO A FOUR-YEAR COLLEGE OR UNIVERSITY.

The Associate in Arts (A.A.) or other specially focused transfer degrees will probably be your best bet.

- **Associate in Arts (A.A.) degree** - typically ranges from 60-64 credit hours and should parallel the first two years of a liberal arts-related baccalaureate degree program.

- **Associate in Science (A.S.) degree** - typically ranges from 60-64 credit hours and should parallel the first two years of a science-related baccalaureate degree program.

There are other specialized Associate’s transfer degrees in Engineering and Fine Arts. Some colleges will accept credits earned through an Associate in Applied Science (A.A.S) but it would be best to confirm with the school you plan to attend next.

Whatever your plan, it is best to think about what college and major you would like to transfer to and design your coursework around the requirements of that institution. Student development counselors are experts on transfer planning and are happy to help!

I WANT TO START WORKING IN MY CHOSEN FIELD.

The Associate in Applied Science (A.A.S) is a degree designed to help students get into their chosen careers with the knowledge and skills needed by specific industries. These programs were created to provide tangible abilities in a field so that you can either find a job or upgrade your current job when you leave CLC.

Many programs also offer short-term certificates that can help get you into the workforce quickly. These certificates may cover a specific proficiency or technical ability to give you a jumpstart in the field. Many can be stacked together to work toward a degree.

- **Associate in Applied Science (A.A.S.) degree** – typically ranges from 60-72 credit hours and focuses on real-world career skills.

- **Career Certificates** – typically range from 9-30 credit hours and focus on a specialized skill.

I AM NOT REALLY SURE WHAT I WANT TO DO NEXT.

That is okay! At CLC, there are many people such as student development counselors, career counselors, academic advisors, and faculty who can help you discover your path. Page 21 has contact information for the people that can help. If you would like to discuss career interests or talk to someone about taking classes that could work for many degree or certificate options, stop by the Counseling, Advising, and Transfer Center.

This catalog is organized by fields of interest. Reading through this information may help spur an idea for you to explore further. For example, you may be interested in the Healthcare field; the Wellness and Health Sciences field of interest offers many options for you to consider.

WHAT IS YOUR PLAN AFTER CLC?
WHAT IS YOUR PLAN AFTER CLC?

I WANT TO TRANSFER TO A FOUR-YEAR COLLEGE OR UNIVERSITY.

The Associate in Arts (A.A.), Associate in Science (A.S.) or other specially focused transfer degrees will probably be your best bet.

- **Associate in Arts (A.A.) degree** - typically ranges from 60-64 credit hours and should parallel the first two years of a liberal arts-related baccalaureate degree program.
- **Associate in Science (A.S.) degree** - typically ranges from 60-64 credit hours and should parallel the first two years of a science-related baccalaureate degree program.
- There are other specialized Associate’s transfer degrees in Engineering and Fine Arts (Art and Music).

Some colleges will accept credits earned through an Associate in Applied Science (A.A.S.) but it would be best to confirm with the school you plan to attend next.

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This catalog is organized by fields of interest. Reading through this information may help spur an idea for you to explore further. For example, you may be interested in the Healthcare field; the Wellness and Health Sciences field of interest offers many options for you to consider.
ASSOCIATE IN ARTS (13AB)

Students may obtain an Associate in Arts degree from the College of Lake County by successfully meeting college requirements and course requirements outlined below.

The College of Lake County is a participant in the Illinois Articulation Initiative (IAI), a major statewide cooperative agreement that eases the transfer process of the completed Illinois General Education Core Curriculum among participating institutions.

COMMUNICATION - 9 CREDIT HOURS
A grade of C or better is required for both ENG courses.

☐ CMM 121 Fundamentals of Speech (3) C2 900
☐ ENG 121 English Composition I (3) C1 900
☐ ENG 122 English Composition II (3) C1 901 R OR Advanced Composition: Scientific and Technical Communications (3) C1 901 R

SOCIAL AND BEHAVIORAL SCIENCE - 9 CREDIT HOURS
Select courses from at least two different disciplines i.e. different prefixes.

☐ ANT 121+ Introduction to Anthropology (3) S1 900N
☐ ANT 221+ Cultural Anthropology (3) S1 901N
☐ ANT 222 Introduction to Physical Anthropology (3) S1 902
☐ ANT 224 Introduction to Archaeology (3) S1 903
☐ ANT 228+ Cross-Cultural Relationships (3) S1 904D
☐ ECO 221 Principles of Microeconomics (3) S3 901
☐ ECO 222 Principles of Macroeconomics (3) S3 902
☐ GEG 122 Cultural Geography (3) S4 900N
☐ GEG 123 World Regional Geography (3) S4 900N
☐ GXS 121+ Introduction to Gender Studies (3) S9 900
☐ GXS 229+ Sex, Gender, and Power (3) S7 904D
☐ HST 121+ History of Western Civilization to 1500 (3) S2 902
☐ HST 122+ History of Western Civilization 1500 to Present (3) S2 903
☐ HST 126+ History of Contemporary Non-Western Civilization (3) S2 905N

PHYSICAL AND LIFE SCIENCES - 7 CREDIT HOURS
One course must be selected from Physical Science and one course from Life Science. At least one course must be a laboratory science course (L).

PHYSICAL SCIENCE
☐ CHM 120L (LAB) Chemical Concepts (4) P1 902L
☐ CHM 121L (LAB) General Chemistry I (5) P1 902L
☐ CHM 140 Chemistry for a Changing World (3) P1 903
☐ CHM 142L (LAB) Chemistry for a Changing World (4) P1 903L
☐ ESC 120L (LAB) Earth Science (4) P1 905L
☐ ESC 121L (LAB) Physical Geology (4) P1 907L
☐ ESC 123 Introduction to Meteorology (3) P1 905
☐ ESC 124 Oceanography (3) P1 905
☐ ESC 125 Geology of National Parks (3) P1 907
☐ ESC 127L (LAB) Introduction to Meteorology (4) P1 905L
☐ ESC 128 Great Mysteries of the Earth (3) P1 905
☐ ESC 129 Severe and Hazardous Weather (3) P1 905
☐ ESC 140L (LAB) Introduction to Astronomy (4) P1 906L
☐ ESC 141 Introduction to Astronomy (3) P1 906
☐ ESC 224 Environmental Geology (3) P1 908
☐ GEG 120L (LAB) Physical Geography (4) P1 909L
☐ GEG 121 (LAB) Principles of Biology (4) P1 909L
☐ PHY 120L (LAB) Practical Aspects of Physics (4) P1 901L
☐ PHY 121L (LAB) General Physics I (5) P1 900L
☐ PHY 123L (LAB) Physics for Science and Engineering I (5) P2 900L

LIFE SCIENCE
☐ BIO 120L (LAB) Environmental Biology (4) L1 905L
☐ BIO 123L (LAB) Principles of Biology (4) L1 900L
☐ BIO 127 Introduction to Evolution (3) L1 907
☐ BIO 140 Environmental Biology without Lab (3) L1 905
☐ BIO 141L (LAB) Concepts of Biology (4) L1 900L
☐ BIO 149 Genetics and Society (3) L1 906
☐ BIO 161L (LAB) General Biology I (4) L1 910L

MATHEMATICS – 3 CREDIT HOURS

☐ MTH 127 Finite Mathematics I (3) M1 906
☐ MTH 140 Contemporary Mathematics (3) M1 904
☐ MTH 141 Quantitative Literacy (3) M1 901
☐ MTH 142 General Education Statistics (3) M1 902
☐ MTH 145 Calculus and Analytic Geometry I (5) M1 900-1
☐ MTH 146 Calculus and Analytic Geometry II (4) M1 900-2
☐ MTH 221 Mathematics for Elementary Teaching II (3) M1 903
☐ MTH 222 Business Statistics (4) M1 902
☐ MTH 224 Calculus for Business and Social Science (4) M1 900-B
☐ MTH 244 Discrete Mathematics (3) M1 905
☐ MTH 246 Calculus and Analytic Geometry III (5) M1 900-3
HUMANITIES AND FINE ARTS – 9 CREDIT HOURS

At least one course must be selected from the Humanities section and one course from the Fine Arts section.

HUMANITIES

- ARA 222+ Intermediate Modern Standard Arabic II (4) H1 900
- CHI 222+ Intermediate Chinese II (4) H1 900
- ENG 229+ Women in Literature (3) H3 911D
- ENG 223+ Early American Literature (3) H3 914
- ENG 225+ Survey of British Literature I (3) H3 912
- ENG 226+ Survey of British Literature II (3) H3 913
- ENG 227+ Introduction to Shakespeare (3) H3 905
- ENG 228+ World Literature (3) H3 906
- ENG 229+ 20th Century American Literature (3) H3 915
- ENG 241+ Introduction to Poetry (3) H3 903
- ENG 243+ Introduction to Fiction (3) H3 901
- ENG 244+ Mythology and Fairy Tales (3) H9 901
- ENG 246+ Latin American Writers (3) H3 908N
- ENG 247+ International Women Writers (3) H3 911D
- ENG 249+ Children’s Literature (3) H3 918
- FRN 222+ Intermediate French II (4) H1 900
- FRN 223+ French Civilization I (3) H1 900
- FRN 224 French Civilization II (3) H1 900
- GER 222+ Intermediate German I (4) H1 900
- GER 224+ German Civilization II (3) H1 900
- HUM 121+ Humanities: Ancient Times to the Middle Ages (3) H9 902
- HUM 122+ Humanities: Renaissance to the Present (3) H9 903
- HUM 123+ Critical Thinking (3) H4 906
- HUM 127+ Introduction to Middle-Eastern Civilizations (3) H2 903 N
- HUM 128+ Introduction to East Asian Civilization (3) H9 904 N
- HUM 129+ World Humanities 20/21st Century (3) H9 904 N
- HUM 141+ American Decades (3) H9 906D
- HUM 221+ Women and the Arts (3) H9 907D
- HUM 226+ FINE ARTS
- ART 222+ Introduction to Art (3) F3 900
- ART 223+ History of Art I (3) F2 901
- ART 224+ History of Art II (3) F2 902
- ART 225+ History of Photography (3) F2 904
- ART 261+ Non-Western Art History (3) F2 903N
- DNC 240+ The Art of Dance (3) F1 906
- HUM 122+ Introduction to the Performing Arts (3) H9 900
- HUM 123+ Introduction to East Asian Civilization (3) H9 904 N
- HUM 126+ Introduction to International Film (3) F2 909
- HUM 140+ World Humanities 20/21st Century (3) H9 904 N
- HUM 141+ American Decades (3) H9 906D
- HUM 222+ Film and Society (3) F2 908
- HUM 226+ Women and the Arts (3) H9 907D
- MUS 124+ Music Appreciation (3) F1 900
- MUS 224+ Music Literature (3) F1 902
- THE 121+ Introduction to Theatre I (3) F1 907

International/Multicultural Requirements

Choose one course with a + following the course number OR one of the following:

- ASI 121, CMM 127, ECO 225, EDU 224, ENG 263, 264, GKS 221, 299, HST 128, LAT 121, PDS 123, PHI 128, 129, PSY 229, SSI 121.

This course can fulfill both the I/M requirement and a Social Science, Humanities, Fine Arts, or Elective requirement. A B.A. degree at many four year colleges may require college level foreign language.

Area of Concentration/Elective Requirements - 23 Credit Hours

- Choose elective courses with a 1.1 (transfer course) PCS code that relate to your intended major. Students should choose electives only after consulting with an Advising Professional. The PCS code for each course is listed in the course descriptions starting on page 224 of this catalog. Up to six hours of courses with a 1.2 (career course) PCS code may be used as general electives in the degree. All 199 courses are exempt from this rule. Students should select these courses only after they have verified their transferability with their Advising Professional or the transfer institution. EDU 999 does not count toward this six-hour limit.
- Students may not receive credit towards degree for both CHM 140 and CHM 142, or both BIO 120 and BIO 140, or both ESC 123 and ESC 127.
- Students with credit for both MTH 122 and MTH 133 will not be given credit for MTH 144. Students may not receive credit towards degree for both (MTH 122 and MTH 144) or (MTH 123 and MTH 144).
- Please review lists of recommended courses for individual programs of study listed on pages 58-262 in this catalog.

Total A.A. Degree Requirements 60 credit hours

Other Graduation Requirements

- Cumulative CLC GPA of 2.00 or higher
- Completion of at least 15 credit hours at CLC
- Petition to Graduation: The Petition to Graduate form must be submitted to the Welcome and One-Stop Center to have your degree processed. It can be found online at www.cclcillinois.edu/petition. Contact Admissions for more information at (847) 543-2061. Deadlines to Petition: Spring – February 15; Summer – July 1; Fall – October 1
ASSOCIATE IN SCIENCE (11AB)

The Associate in Science degree is designed to parallel the first two years of a science-related baccalaureate degree program. Students complete freshman and sophomore level courses for majors in such areas as biology, chemistry, physics and related professional fields. Since differences in course requirements exist at different universities and in different science disciplines within the same university, it is important that students work closely with a CLC student development counselor and their transfer school to choose appropriate courses. Completion of the A.S. degree does not fulfill the requirements of the Illinois Articulation Initiative General Education Core Curriculum (IAI GECC).

Many science majors are highly structured and require extensive sequential lower-division mathematics and science courses. In order to take courses required for the major in a similar pattern to those of the freshman and sophomore students at a university, some general education courses are postponed until after transfer. Students then either complete the general education requirements of the transfer institution or are given the opportunity to complete the IAI.

COMMUNICATION - 9 CREDIT HOURS
A grade of C or better is required for both ENG courses.

☐ CMM 121 Fundamentals of Speech (3) C2 900
☐ ENG 121 English Composition I (3) C1 900
☐ ENG 122 English Composition II (3) C1 901 R OR ENG 126 Advanced Composition; Scientific and Technical Communications (3) C1 901 R

SOCIAL AND BEHAVIORAL SCIENCE - 6 CREDIT HOURS
Select courses from at least two different disciplines i.e. different prefixes.

☐ ANT 121+ Introduction to Anthropology (3) S1 900N
☐ ANT 122 Cultural Anthropology (3) S1 901N
☐ ANT 221+ Introduction to Physical Anthropology (3) S1 902
☐ ANT 224 Introduction to Archaeology (3) S1 903
☐ ANT 228+ Cross-Cultural Relationships (3) S1 904D
☐ ECO 221 Principles of Macroeconomics (3) S3 901
☐ ECO 222 Principles of Microeconomics (3) S3 902
☐ GEG 122 Cultural Geography (3) S4 900N
☐ GEG 123 World Regional Geography (3) S4 900N
☐ GXS 121+ Introduction to Gender Studies (3) S9 900
☐ GXS 229 Sex, Gender, and Power (3) S7 904D
☐ HST 121+ History of Western Civilization to 1500 (3) S2 902
☐ HST 122+ History of Western Civilization 1500 to Present (3) S2 903
☐ HST 126+ History of Contemporary Non-Western Civilization (3) S2 905N
☐ HST 127+ History of Chinese Culture and Society (3) S2 920N
☐ HST 221 United States History to 1876 (3) S2 900
☐ HST 222 United States History 1876 to Present (3) S2 901
☐ HST 245+ History of Latin America from 1825 (3) S2 920N
☐ HST 246+ History of Latin America from 1825 to 1920 (3) S2 920N
☐ PSC 121 American National Politics (3) S5 900
☐ PSC 122 State and Local Politics (3) S5 902
☐ PSC 221+ Comparative Political Systems (3) S5 905
☐ PSC 222+ International Relations (3) S5 904N
☐ PSY 121 Introduction to Psychology (3) S6 900
☐ PSY 220 Lifespan Development (3) S6 902
☐ PSY 222 Child Growth and Development (3) S6 903
☐ PSY 225 Social Psychology (3) S8 900
☐ PSY 226 Adolescent Psychology (3) S6 904
☐ SOC 121 Introduction to Sociology (3) S7 900
☐ SOC 222 Social Problems (3) S7 901
☐ SOC 224 Sociology of the Family (3) S7 902
☐ SOC 225+ Class, Race, and Gender (3) S7 903D
☐ SOC 229+ Sex, Gender, and Power (3) S7 904D

PHYSICAL AND LIFE SCIENCES - 11 CREDIT HOURS
One course must be selected from Physical Science and one course from Life Science. Both courses must be IAI and laboratory science courses (L). A third course should be selected from the Physical Science course list or the Life Science course list or the Additional Science course list.

☐ CHM 120L (LAB) Chemical Concepts (4) P1 902L
☐ CHM 121L (LAB) General Chemistry I (5) P1 902L
☐ CHM 142L (LAB) Chemistry for a Changing World (4) P1 903L
☐ ESC 120L (LAB) Earth Science (4) P1 905L
☐ ESC 121L (LAB) Physical Geology (4) P1 907L
☐ ESC 127L (LAB) Introduction to Meteorology (4) P1 905L
☐ ESC 140L (LAB) Introduction to Astronomy (4) P1 906L
☐ GEG 120L (LAB) Physical Geography (4) P1 909L
☐ PHY 120L (LAB) Practical Aspects of Physics (4) P1 901L
☐ PHY 121L (LAB) General Physics I (5) P1 900L
☐ PHY 123L (LAB) Physics for Science and Engineering I (5) P2 900L

LIFE SCIENCE

☐ BIO 120L (LAB) Environmental Biology (4) L1 905L
☐ BIO 123L (LAB) Principles of Biology (4) L1 900L
☐ BIO 141L (LAB) Concepts of Biology (4) L1 900L
☐ BIO 161L (LAB) General Biology I (4) L1 910L

ADDITIONAL SCIENCE COURSE LIST
Any BIO, CHM, ESC, GEG, HRT or PHY course with a 1.1 PCS code, excluding GEG 122 and GEG 123. The PCS code for each course is listed in the course descriptions starting on page 263 of this catalog.

MATHEMATICS – 7 CREDIT HOURS
One course MUST be selected from the courses with an IAI number (shown in bold) in order to meet CLC graduation requirements.

☐ MTH 121 Mathematics for Elementary Teaching (3)
☐ MTH 122 College Algebra (4)
☐ MTH 123 Trigonometry
☐ MTH 127 Finite Mathematics I (3) M1 906
☐ MTH 144 Precalculus (5)
☐ MTH 145 Calculus and Analytic Geometry I (5) M1 900-1
☐ MTH 146 Calculus and Analytic Geometry II (4) M1 900-2
☐ MTH 221 Mathematics for Elementary Teaching II (3) M1 903
☐ MTH 222 Business Statistics (4) M1 902
At least one course must be selected from the Humanities section and one course from the Fine Arts section.

**HUMANITIES**
- ARA 222+
- CHI 222+
- ENG 129+
- ENG 223
- ENG 225
- ENG 226
- ENG 227
- ENG 228+
- ENG 229
- ENG 241
- ENG 243
- ENG 244+
- ENG 246+
- ENG 247+
- ENG 249
- FRN 222+
- FRN 224
- GER 222+
- GER 224
- HUM 121+
- HUM 122+
- HUM 127
- MTH 224
- MTH 227
- MTH 244
- MTH 246

**DEGREES/CERTIFICATES**

**HUMANITIES AND FINE ARTS – 6 CREDIT HOURS**

At least one course must be selected from the Humanities section and one course from the Fine Arts section.

**HUMANITIES**
- ARA 222+
- CHI 222+
- ENG 129+
- ENG 223
- ENG 225
- ENG 226
- ENG 227
- ENG 228+
- ENG 229
- ENG 241
- ENG 243
- ENG 244+
- ENG 246+
- ENG 247+
- ENG 249
- FRN 222+
- FRN 224
- GER 222+
- GER 224
- HUM 121+
- HUM 122+
- HUM 127
- MTH 224
- MTH 227
- MTH 244
- MTH 246

**HUMANITIES AND FINE ARTS – 6 CREDIT HOURS**

At least one course must be selected from the Humanities section and one course from the Fine Arts section.

**HUMANITIES**
- ARA 222+
- CHI 222+
- ENG 129+
- ENG 223
- ENG 225
- ENG 226
- ENG 227
- ENG 228+
- ENG 229
- ENG 241
- ENG 243
- ENG 244+
- ENG 246+
- ENG 247+
- ENG 249
- FRN 222+
- FRN 224
- GER 222+
- GER 224
- HUM 121+
- HUM 122+
- HUM 127
- MTH 224
- MTH 227
- MTH 244
- MTH 246

**FINE ARTS**
- DNC 240+
- HUM 121+
- HUM 122+
- HUM 123
- HUM 126+
- HUM 129+
- HUM 140+
- HUM 141+
- HUM 221+
- HUM 222
- HUM 226+
- MUS 124
- MUS 224
- THE 121
- THE 123+

**INTRODUCTION TO MIDDLE-EASTERN CIVILIZATIONS**
- HUM 128+

**INTRODUCTION TO EAST ASIAN CIVILIZATIONS**
- HUM 129+

**WORLD HUMANITIES (20/21 CENTURY)**
- HUM 141+

**AMERICAN DECADES**
- HUM 221+

**WOMEN AND THE ARTS**
- HUM 226+

**INTERMEDIATE FRENCH II**
- ITL 222+

**ITALIAN CIVILIZATION II**
- JPN 223

**INTRODUCTION TO PHILOSOPHY**
- PHI 121

**INTRODUCTION TO ETHICS**
- PHI 125+

**ASIAN PHILOSOPHY**
- PHI 126+

**INTERMEDIATE RUSSIAN II**
- PHI 221+

**SPANISH CIVILIZATION I**
- RUS 222+

**SPANISH CIVILIZATION II**
- SPA 222+

**SPANISH CIVILIZATION III**
- SPA 223+

**SPANISH CIVILIZATION IV**
- SPA 224+

**ART OF DANCE**
- DNC 240+

**INTRODUCTION TO SHAKESPEAREAN LITERATURE**
- HUM 127

**INTRODUCTION TO FILM**
- HUM 128+

**INTRODUCTION TO ETHICS**
- HUM 129+

**INTRODUCTION TO INTERNATIONAL ARTS**
- HUM 140+

**INTRODUCTION TO MIDDLE-EASTERN CIVILIZATIONS**
- HUM 141+

**INTRODUCTION TO EAST ASIAN CIVILIZATIONS**
- HUM 142+

**INTRODUCTION TO INDIAN CIVILIZATION**
- HUM 143+

**INTRODUCTION TO EUROPEAN CIVILIZATION**
- HUM 144+

**INTRODUCTION TO THE AMERICAN CIVILIZATION**
- HUM 145+
The field of horticulture is evolving quickly to address current sustainability issues, whether in plant production, landscape design or construction and management. The CLC Horticulture program has incorporated sustainability topics across its curriculum to better prepare students for employment in the green industry. Graduates enter a range of employment including local landscape companies, environmental consulting firms, municipalities and park districts, public land management agencies and entrepreneurial ventures.

A.A.S. degree students must complete fifteen hours of General Education courses from those listed on pages 265-266 plus 5 credits of additional courses, and also 28 credit hours of horticultural core courses and 12 credit hours of elective AGR/HRT coursework. Graduates entering the field must be well-versed in basic botany, plant identification and care, soil science, entomology, plant pathology and business. These courses are included in the core requirements. Focusing the elective coursework allows students to develop skills in one of 6 areas of study: landscape design, landscape construction and maintenance, arboriculture, horticulture production, sustainable agriculture or natural areas management.

Horticulture students also may choose a certificate, which is a specific combination of 18-19 credit hours within a given specialty area. This option is well-suited for students who wish to enter the job market quickly, enhance their skills in a specific area for career advancement, or redirect their previous professional training for a new career. Students may select from certificate programs in: landscape design, landscape construction and maintenance, arboriculture, horticulture production, sustainable agriculture, and natural areas management.

To expand the skill set for employment, a number of certificates can be stacked to provide a dual certificate of complimentary topics for 27-30 total credits.

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>16-17</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 120</td>
<td>Environmental Biology or</td>
</tr>
<tr>
<td>CHM 142</td>
<td>Chemistry for a Changing World or Other Science or Math elective</td>
</tr>
<tr>
<td>ENG 121</td>
<td>English Composition I</td>
</tr>
<tr>
<td>HRT 121*</td>
<td>Introduction to Horticulture</td>
</tr>
<tr>
<td>HRT 124</td>
<td>Introduction to Soils</td>
</tr>
<tr>
<td>HRT or AGR elective</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND SEMESTER</th>
<th>14</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 222</td>
<td>General Botany</td>
</tr>
<tr>
<td>EWE 120</td>
<td>Job Readiness Skills</td>
</tr>
<tr>
<td>HRT 127</td>
<td>Perennials, Annuals and Weeds</td>
</tr>
<tr>
<td>HRT 162</td>
<td>Sustainable Landscape Management</td>
</tr>
<tr>
<td>HRT or AGR elective</td>
<td></td>
</tr>
</tbody>
</table>
Third Semester  | Credits | Course Code | Course Title
--- | --- | --- | ---
CMM 121 | 3 | Fundamentals of Speech
HRT 125 | 3 | Tree and Shrub Identification
HRT 126 | 3 | Entomology
HRT or AGR elective | 3 | Social Science Elective

Fourth Semester  | Credits | Course Code | Course Title
--- | --- | --- | ---
HRT 129 | 3 | Plant Pathology
HRT 225 | 3 | Green Business and Entrepreneurship
HRT 280* | 3 | Horticulture Practicum
HRT or AGR elective | 3 | Humanities or Fine Arts elective

Total Hours for A.A.S. Degree  | 60-61 |
--- | --- |

* Also offered during the summer session.

For more information and for program specific advising, contact Rory Klick at (847) 543-2320 or the Biological and Health Sciences Division at (847) 543-2042.

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### Landscape Design (Certificate) Plan 21HD

Design majors are prepared for entry-level positions with landscape firms and become versed with all phases of the landscape process from site analysis to design to installation. Students are trained in both hand-drawing and computer graphics, and develop designs for a variety of residential, commercial and public sites.

<table>
<thead>
<tr>
<th>Semester</th>
<th>Credits</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Semester</td>
<td>9</td>
<td>HRT 125</td>
<td>Tree and Shrub Identification</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HRT 140</td>
<td>Landscape Graphics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HRT 260</td>
<td>Landscape Construction</td>
</tr>
<tr>
<td>Second Semester</td>
<td>9</td>
<td>HRT 127</td>
<td>Perennials, Annuals and Weeds</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HRT 240</td>
<td>Landscape Design</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HRT 245</td>
<td>Computer Landscape Design</td>
</tr>
</tbody>
</table>

Total hours for Certificate  | 18 |
--- | --- |

Gainful Employment Information: www.clcillinois.edu/gehrt

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### Landscape Construction and Maintenance (Certificate) Plan 21HH

The construction and maintenance specialty is ideal for those interested in work as landscape contractors, either for landscape firms or as entrepreneurs. Students take the general horticulture coursework plus relevant specialty courses such as landscape maintenance and entrepreneurship.

<table>
<thead>
<tr>
<th>Semester</th>
<th>Credits</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Semester</td>
<td>9</td>
<td>HRT 121*</td>
<td>Introduction to Horticulture</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HRT 125</td>
<td>Tree and Shrub Identification</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HRT 260</td>
<td>Landscape Construction</td>
</tr>
<tr>
<td>Second Semester</td>
<td>9</td>
<td>HRT 127</td>
<td>Perennials, Annuals and Weeds</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HRT 162</td>
<td>Sustainable Landscape Management</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HRT 225</td>
<td>Green Business and Entrepreneurship</td>
</tr>
</tbody>
</table>

Total hours for Certificate  | 18 |
--- | --- |

* Also offered during the summer session.

Gainful Employment Information: www.clcillinois.edu/gehrt
Arboriculture and urban forestry management involve caring for the health and functional well being of trees. Tree resources are critical not only for shade and beauty, but for the ability to sequester carbon and help offset climate change effects. Coursework prepares students for work in a range of tree care industry careers.

**First Semester**
- HRT 121* Introduction to Horticulture 3
- HRT 125 Tree and Shrub Identification 3
- HRT 126 Entomology 3

**Second Semester**
- HRT 129 Plant Pathology 3
- HRT 162 Sustainable Landscape Management 3
- HRT 265 Urban Forestry Management 3

*Also offered during the summer session.

**Total hours for Certificate** 18

Gainful Employment Information: www.clcillinois.edu/gehrt

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This program of study is geared for students wanting to grow plants, primarily ornamental and native plants for the landscape industry. Students gain exposure to a variety of growing situations, including greenhouse, high tunnel and nursery production applications. Coursework includes organic and sustainable production options as well as propagation methods.

**First Semester**
- HRT 121* Introduction to Horticulture 3
- HRT 124 Introduction to Soils 4
- HRT 228 Nursery Production 3

**Second Semester**
- HRT 127 Perennials, Annuals and Weeds 3
- HRT 221 Plant Propagation 3
- HRT 222 Greenhouse Crop Production and Management 3

**Total hours for Certificate** 19

*Also offered during the summer session.

Gainful Employment Information: www.clcillinois.edu/gehrt

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Sustainable agriculture is an emerging specialty field that is growing quickly as we seek to find economically viable ways to maintain farm land and sustainable ways to support local food production. Students will take a variety of hands-on courses in such topics as permaculture, extended season production, and seasonal fruit and vegetable production. Graduates are prepared for work as skilled farm laborers and managers or for entry into entrepreneurial support programs like the Farm Business Development Center.

**Fall Semester**
- AGR 121 Introduction to Sustainable Agriculture 3
- HRT 121* Introduction to Horticulture 3
- HRT 124 Introduction to Soils 4

**Spring Semester**
- AGR 122 Sustainable Food Crop Production Methods 3
- HRT 221 Plant Propagation 3
- HRT 225 Green Business and Entrepreneurship 3

**Total hours for Certificate** 19

*Also offered during the summer session.

Gainful Employment Information: www.clcillinois.edu/gehrt
NATURAL AREAS MANAGEMENT
(Certificate) Plan 21HQ

Natural areas management is the practice of land restoration using the scientific principles of restoration ecology and conservation biology. Regional ecology of prairie, savanna, woodland and wetland ecosystems is emphasized. Students will gain experience in floristic identification and monitoring, landscape assessment, and practices of land management such as invasive species control and prescribed burning. Course-work includes extensive field trips and work in various field situations.

**FALL SEMESTER**

- **BIO 120**  Environmental Biology  4
- **HRT 125**  Tree and Shrub Identification  3

**SPRING SEMESTER**

- **BIO 126**  Local Flora  2
- **HRT 162**  Sustainable Landscape Management  3
- **HRT 225**  Green Business and Entrepreneurship  3

**FALL SEMESTER**

- **HRT 286**  Natural Areas Management  3

Total hours for Certificate  18

Gainful Employment Information:
www.clcillinois.edu/gehrt

For more information and for program specific advising, contact Rory Klick at (847) 543-2320 or the Biological and Health Sciences Division at (847) 543-2042.
SUSTAINABILITY PROGRAMS
Engineering, Math and Physical Sciences
Division Room T302, (847) 543-2044

Sustainability programs provide a broad understanding of the natural world and how it relates to the built environment. Subject matter ranges from horticulture and environmental sciences to construction and engineering, including instruction on the LEED (Leadership in Energy and Environmental Design) Accredited Professional certification. Coursework prepares students for a wide range of occupations related to sustainability, as well as presents fundamental knowledge of environmental issues applicable to contemporary lifestyle and workforce trends.

SUSTAINABILITY (POLICY AND SOCIAL ASPECTS)
Engineering, Math and Physical Sciences
Division, Room T302, (847) 543-2044
www.clcillinois.edu/programs/sus

Degree: Associate in Arts
Plan 13AB

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 121</td>
<td>3</td>
</tr>
<tr>
<td>ESC 128</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts Elective</td>
<td>3</td>
</tr>
<tr>
<td>Math Elective (Recommend MTH 142 Statistics as a minimum)</td>
<td>3</td>
</tr>
<tr>
<td>PSY 121</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND SEMESTER</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 121*</td>
<td>3</td>
</tr>
<tr>
<td>ENG 122</td>
<td>3</td>
</tr>
<tr>
<td>ESC 127*</td>
<td>3</td>
</tr>
<tr>
<td>PHI 125</td>
<td>3</td>
</tr>
</tbody>
</table>
THIRD SEMESTER  
CMM 121 Fundamentals of Speech  3
CHM 140 Chemistry for a Changing World with Lab  4
ESC 121 * Physical Geology  4
PSC 121 * American National Politics  3

FOURTH SEMESTER  
ANT 222 Introduction to Physical Anthropology  3
BIO 140 Environmental Biology without Lab  3
ECO 222 * Principles of Microeconomics  3
ESC 224 * Environmental Geology  3
SOC 222 Social Problems  3

* AREA OF CONCENTRATION/ELECTIVE REQUIREMENTS

Strongly Recommended:
ECO 222 Principles of Microeconomics  3

Recommended Courses:
BUS 121 Introduction to Business  3
ESC 121 Physical Geology  4
ESC 123 Introduction to Meteorology or
ESC 127 Introduction to Meteorology with lab  3-4
ESC 224 Environmental Geology  3
GEG 120 Principles of Physical Geography  3
PSC 121 American National Politics  3

SUSTAINABILITY (SCIENCE AND TECHNICAL ASPECTS)

Degree: Associate in Science
Plan 11AB

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

FIRST SEMESTER  
CHM 121 General Chemistry I  5
ENG 121 English Composition  3
ESC 121 Physical Geology  4
PHI 125 Introduction to Ethics  3

SECOND SEMESTER  
CHM 123 General Chemistry II  5
ENG 122 English Composition II  3
HUM 127 Critical Thinking  3
HRT 286 Natural Areas Management  3

THIRD SEMESTER  
BIO 161 General Biology I  4
CMM 121 Fundamentals of Speech  3
ESC 224 Environmental Geology  3
MTH 145 Calculus and Analytical Geometry I  5

FOURTH SEMESTER  
ANT 222 Introduction to Physical Anthropology  3
BIO 162 General Biology II  4
MTH 146 Calculus and Analytical Geometry II  5
SOC 222 Social Problems  3

AREA OF CONCENTRATION/ELECTIVE REQUIREMENTS

Strongly Recommended:
BIO 162 General Biology II  4
CHM 123 General Chemistry II  5

Recommended Courses:
ESC 121 Physical Geology  4
ESC 224 Environmental Geology  3
GEG 120 Principles of Physical Geography  3
PHY 121 General Physics I  5

For more information on recommended courses or program specific advising, contact Engineering faculty member Ryan Cumpston at (847) 543-2491 or the Engineering, Mathematics and Physical Sciences Division at (847) 543-2044.
WELLNESS AND HEALTH SCIENCES

CERTIFIED NURSING ASSISTING
COMPUTED TOMOGRAPHY
DENTAL HYGIENE
HEALTH AND WELLNESS COACHING
HEALTH AND WELLNESS PROMOTION
HEALTH INFORMATION TECHNOLOGY
HEALTHCARE OFFICE ASSISTANT
KINESIOLOGY
MAGNETIC RESONANCE IMAGING
MASSAGE THERAPY
MEDICAL ASSISTING
MEDICAL BILLING SPECIALIST
MEDICAL IMAGING
NURSING
PERSONAL TRAINING
PHLEBOTOMY TECHNICIAN
PRE-DENTISTRY
PRE-MEDICINE
PRE-OCCUPATIONAL THERAPY
PRE-PHARMACY
PRE-PHYSICAL THERAPY
PRE-VETERINARY MEDICINE
SURGICAL TECHNOLOGY
YOGA
WHAT IS YOUR PLAN AFTER CLC?

I WANT TO TRANSFER TO A FOUR-YEAR COLLEGE OR UNIVERSITY.

The Associate in Arts (A.A.), Associate in Science (A.S.) or other specially focused transfer degrees will probably be your best bet.

- **Associate in Arts (A.A.) degree** - typically ranges from 60-64 credit hours and should parallel the first two years of a liberal arts-related baccalaureate degree program.
- **Associate in Science (A.S.) degree** - typically ranges from 60-64 credit hours and should parallel the first two years of a science-related baccalaureate degree program.
- There are other specialized Associate’s transfer degrees in Engineering and Fine Arts (Art and Music).

Some colleges will accept credits earned through an Associate in Applied Science (A.A.S.) but it would be best to confirm with the school you plan to attend next.

Whatever your plan, it is best to think about what college and major you would like to transfer to and design your coursework around the requirements of that institution. Student development counselors are experts on transfer planning and are happy to help!

I WANT TO START WORKING IN MY CHOSEN FIELD.

The Associate in Applied Science (A.A.S) is a degree designed to help students get into their chosen careers with the knowledge and skills needed by specific industries. These programs were created to provide tangible abilities in a field so that you can either find a job or upgrade your current job when you leave CLC.

Many programs also offer short-term certificates that can help get you into the workforce quickly. These certificates may cover a specific proficiency or technical ability to give you a jumpstart in the field. Many can be stacked together to work toward a degree.

- **Associate in Applied Science (A.A.S.) degree** – typically ranges from 60-72 credit hours and focuses on real-world career skills.
- **Career Certificates** – typically range from 9-30 credit hours and focus on a specialized skill.

I AM NOT REALLY SURE WHAT I WANT TO DO NEXT.

*That is okay!* At CLC, there are many people such as student development counselors, career counselors, academic advisors, and faculty who can help you discover your path. Page 21 has contact information for the people that can help. If you would like to discuss career interests or talk to someone about taking classes that could work for many degree or certificate options, stop by the Counseling, Advising, and Transfer Center.

This catalog is organized by fields of interest. Reading through this information may help spur an idea for you to explore further. For example, you may be interested in the Healthcare field; the Wellness and Health Sciences field of interest offers many options for you to consider.
ASSOCIATE IN ARTS (13AB)

Students may obtain an Associate in Arts degree from the College of Lake County by successfully meeting college requirements and course requirements outlined below.

The College of Lake County is a participant in the Illinois Articulation Initiative (IAI), a major statewide cooperative agreement that eases the transfer process of the completed Illinois General Education Core Curriculum among participating institutions.

COMMUNICATION - 9 CREDIT HOURS
A grade of C or better is required for both ENG courses.

- CMM 121 Fundamentals of Speech (3) C 2 900
- ENG 121 English Composition I (3) C 1 900
- ENG 122 English Composition II (3) C 1 901 R OR Advanced Composition: Scientific and Technical Communications (3) C 1 901 R

SOCIAL AND BEHAVIORAL SCIENCE - 9 CREDIT HOURS
Select courses from at least two different disciplines i.e. different prefixes.

- ANT 121+ Introduction to Anthropology (3) S 1 900N
- ANT 224 Introduction to Physical Anthropology (3) S 1 902
- ANT 222 Introduction to Archaeology (3) S 1 903
- ANT 228+ Cross-Cultural Relationships (3) S 1 904D
- ECO 221 Principles of Microeconomics (3) S 3 901
- ECO 222 Principles of Macroeconomics (3) S 3 902
- GEG 122 Cultural Geography (3) S 4 900N
- GEG 123 World Regional Geography (3) S 4 900N
- GXS 121+ Introduction to Gender Studies (3) S 9 900
- GXS 229+ Sex, Gender, and Power (3) S 7 904D
- HST 121+ History of Western Civilization to 1500 (3) S 2 902
- HST 122+ History of Western Civilization 1500 to Present (3) S 2 903
- HST 126+ History of Contemporary Non-Western Civilization (3) S 2 905N
- HST 127+ History of Chinese Culture and Society (3) S 2 920N
- HST 221 United States History to 1876 (3) S 2 900
- HST 222 United States History 1876 to Present (3) S 2 901
- HST 245+ History of Latin America to 1825 (3) S 2 920N
- HST 246+ History of Latin America from 1825 (3) S 2 920N
- PSC 121 American National Politics (3) S 5 900
- PSC 122 State and Local Politics (3) S 5 902
- PSC 221+ Comparative Political Systems (3) S 5 905
- PSC 222+ International Relations (3) S 5 904N
- PSY 121 Introduction to Psychology (3) S 6 900
- PSY 220 Lifespan Development (3) S 6 902
- PSY 222 Child Growth and Development (3) S 6 903
- PSY 225 Social Psychology (3) S 8 900
- PSY 226 Adolescent Psychology (3) S 6 904
- SOC 121 Introduction to Sociology (3) S 7 900
- SOC 122 Social Problems (3) S 7 901
- SOC 222 Sociology of the Family (3) S 7 902
- SOC 224 Class, Race, and Gender (3) S 7 903D
- SOC 225+ Sex, Gender, and Power (3) S 7 904D

PHYSICAL AND LIFE SCIENCES - 7 CREDIT HOURS
One course must be selected from Physical Science and one course from Life Science. At least one course must be a laboratory science course (L).

PHYSICAL SCIENCE
- CHM 120L (LAB) General Chemistry I (5) P 1 901L
- CHM 121L (LAB) General Chemistry I (5) P 1 902L
- CHM 140 (LAB) Chemistry for a Changing World (3) P 1 903
- CHM 142L (LAB) Chemistry for a Changing World (4) P 1 903L
- ESC 120L Earth Science (4) P 1 905L
- ESC 121L Geology (4) P 1 907L
- ESC 123 Introduction to Meteorology (3) P 1 905
- ESC 124 Oceanography (3) P 1 905
- ESC 125 Geology of National Parks (3) P 1 907
- ESC 127L (LAB) Introduction to Meteorology (4) P 1 905L
- ESC 128 Great Mysteries of the Earth (3) P 1 905
- ESC 129 Severe and Hazardous Weather (3) P 1 905
- ESC 140L (LAB) Introduction to Astronomy (4) P 1 906L
- ESC 141 Introduction to Astronomy (3) P 1 906
- ESC 224 Environmental Geology (3) P 1 908
- GEG 120L (LAB) Physical Geography (4) P 1 909L
- GEG 121 Physical Geography (3) P 1 909
- PHY 120L (LAB) Practical Aspects of Physics (4) P 1 901L
- PHY 121L (LAB) General Physics I (5) P 1 900L
- PHY 123L (LAB) Physics for Science and Engineering I (5) P 2 900L

LIFE SCIENCE
- BIO 120L (LAB) Environmental Biology (4) L 1 905L
- BIO 123L (LAB) Principles of Biology (4) L 1 900L
- BIO 127 Introduction to Evolution (3) L 1 907
- BIO 140 Environmental Biology without Lab (3) L 1 905
- BIO 141L (LAB) Concepts of Biology (4) L 1 900L
- BIO 149 Genetics and Society (3) L 1 906
- BIO 161L (LAB) General Biology I (4) L 1 910L

MATHEMATICS - 3 CREDIT HOURS
- MTH 127 Finite Mathematics I (3) M 1 906
- MTH 140 Contemporary Mathematics (3) M 1 904
- MTH 141 Quantitative Literacy (3) M 1 901
- MTH 142 General Education Statistics (3) M 1 902
- MTH 145 Calculus and Analytic Geometry I (5) M 1 900-1
- MTH 146 Calculus and Analytic Geometry II (4) M 1 900-2
- MTH 221 Mathematics for Elementary Teaching II (3) M 1 903
- MTH 222 Business Statistics (4) M 1 902
- MTH 224 Calculus for Business and Social Science (4) M 1 900-B
- MTH 244 Discrete Mathematics (3) M 1 905
- MTH 246 Calculus and Analytic Geometry III (5) M 1 900-3
HUMANITIES AND FINE ARTS – 9 CREDIT HOURS
At least one course must be selected from the Humanities section and one course from the Fine Arts section.

HUMANITIES
- ARA 222+ Intermediate Modern Standard Arabic II (4) H1 900
- CHI 222+ Intermediate Chinese II (4) H1 900
- ENG 129+ Women in Literature (3) H3 911D
- ENG 223 Early American Literature (3) H3 914
- ENG 225 Survey of British Literature I (3) H3 912
- ENG 226 Survey of British Literature II (3) H3 913
- ENG 227 Introduction to Shakespeare (3) H3 905
- ENG 228+ World Literature (3) H3 906
- ENG 229 20th Century American Literature (3) H3 915
- ENG 241 Introduction to Poetry (3) H3 903
- ENG 243 Introduction to Fiction (3) H3 901
- ENG 244+ Mythology and Fairy Tales (3) H9 901
- ENG 246+ Latin American Writers (3) H3 908N
- ENG 247+ International Women Writers (3) H3 911D
- ENG 249 Children’s Literature (3) H3 918
- FRN 222+ Intermediate French II (4) H1 900
- FRN 223 French Civilization I (3) H1 900 French Civilization II (3) H1 900
- GER 222+ Intermediate German II (4) H1 900
- GER 224 German Civilization II (3) H1 900
- HUM 121+ Humanities: Ancient Times to the Middle Ages (3) HF 902
- HUM 122+ Humanities: Renaissance to the Present (3) HF 903
- HUM 127 Critical Thinking (3) H4 906
- HUM 128+ Introduction to Middle-Eastern Civilizations (3) H2 903 N
- HUM 129+ Introduction to East Asian Civilization (3) HF 904 N
- HUM 141+ World Humanities 20/21st Century (3) HF 904 N
- HUM 211+ American Decades (3) HF 906D
- HUM 226+ Women and the Arts (3) HF 907D
- ITL 222+ Intermediate Italian II (4) H1 900
- ITL 223 Italian Civilization I (3) H1 900
- JPN 222+ Intermediate Japanese II (4) H1 900
- LAT 121 Introduction to Latin-American Studies (3) HF 906D
- PHI 121 Introduction to Philosophy (3) H4 900
- PHI 122 Logic (3) H4 906
- PHI 123 Philosophy of Religion (3) H4 905
- PHI 125+ Introduction to Ethics (3) H4 904
- PHI 126+ World Religions (3) H5 904N
- PHI 128 Introduction to Social and Political Philosophy (3) H4 907
- RUS 221+ Intermediate Russian II (4) H1 900
- SPA 222+ Intermediate Spanish II (4) H1 900
- SPA 223+ Spanish Civilization I (3) H1 900
- SPA 224+ Spanish Civilization II (3) H1 900

FINE ARTS
- ART 121 History of Art I (3) F2 900
- ART 121+ History of Art II (3) F2 902
- ART 240+ History of Photography (3) F2 904
- ART 260+ Non-Western Art History (3) F2 903N
- ART 261+ The Art of Dance (3) F1 906
- DNC 240+ Humanities: Ancient Times to the Middle Ages (3) HF 902
- HUM 122+ Humanities: Renaissance to the Present (3) HF 903
- HUM 123 Introduction to Film (3) F2 908
- HUM 126+ Introduction to the Performing Arts (3) F3 900
- HUM 129+ Introduction to East Asian Civilization (3) HF 904 N
- HUM 140+ World Humanities 20/21st Century (3) HF 904N
- HUM 141+ American Decades (3) HF 906D
- HUM 222 Film and Society (3) F2 908
- HUM 226+ Women and the Arts (3) HF 907D
- MUS 124 Music Appreciation (3) F1 900
- MUS 224 Music Literature (3) F1 902
- THE 121 Introduction to Theatre I (3) F1 907
- THE 123+ Diversity in American Theatre (3) F1 909D

INTERNATIONAL/MULTICULTURAL REQUIREMENTS
Choose one course with a + following the course number OR one of the following:
- ASI 121, CMM 127, ECO 225, EDU 224, ENG 263, 264, GKS 221, 299, HST 128, LAT 121, PDS 123, PHI 128, 129, PSY 229, SSI 121.
- This course can fulfill both the I/M requirement and a Social Science, Humanities, Fine Arts, or Elective requirement. A B.A. degree at many four year colleges may require college level foreign language.

AREA OF CONCENTRATION/ELECTIVE REQUIREMENTS - 23 CREDIT HOURS
- Choose elective courses with a 1.1 (transfer course) PCS code that relate to your intended major. Students should choose electives only after consulting with an Advising Professional. The PCS code for each course is listed in the course descriptions starting on page 224 of this catalog. Up to six hours of courses with a 1.2 (career course) PCS code may be used as general electives in the degree. All 199 courses are exempt from this rule. Students should select these courses only after they have verified their transferability with their Advising Professional or the transfer institution. EDU 999 does not count toward this six-hour limit.
- Students may not receive credit towards degree for both CHM 140 and CHM 142, or both BIO 120 and BIO 140, or both ESC 123 and ESC 127.
- Students with credit for both MTH 122 and MTH 123 will not be given credit for MTH 144. Students may not receive credit towards degree for both (MTH 122 and MTH 144) or (MTH 123 and MTH 144).
- Please review lists of recommended courses for individual programs of study listed on pages 58-262 in this catalog.

Total A.A. Degree Requirements 60 credit hours

OTHER GRADUATION REQUIREMENTS
- Cumulative CLC GPA of 2.00 or higher
- Completion of at least 15 credit hours at CLC
- Petition to Graduate: The Petition to Graduate form must be submitted to the Welcome and One-Stop Center to have your degree processed. It can be found online at www.clcillinois.edu/petition. Contact Admissions for more information at (847) 543-2061. Deadlines to Petition: Spring – February 15; Summer – July 1; Fall – October 1
ASSOCIATE IN SCIENCE (11AB)

The Associate in Science degree is designed to parallel the first two years of a science-related baccalaureate degree program. Students complete freshman and sophomore level courses for majors in such areas as biology, chemistry, physics and related professional fields. Since differences in course requirements exist at different universities and in different science disciplines within the same university, it is important that students work closely with a CLC student development counselor and their transfer school to choose appropriate courses. Completion of the A.S. degree does not fulfill the requirements of the Illinois Articulation Initiative General Education Core Curriculum (IAI GECC). Many science majors are highly structured and require extensive sequential lower-division mathematics and science courses. In order to take courses required for the major in a similar pattern to those of the freshman and sophomore students at a university, some general education courses are postponed until after transfer. Students then either complete the general education requirements of the transfer institution or are given the opportunity to complete the IAI.

COMMUNICATION - 9 CREDIT HOURS
A grade of C or better is required for both ENG courses.

☐ CMM 121 Fundamentals of Speech (3)
☐ CMM 211 Communication I (3)
☐ ENG 121 English Composition I (3)
☐ ENG 122 English Composition II (3)
☐ ENG 126 Advanced Composition: Scientific and Technical Communications (3)

SOCIAL AND BEHAVIORAL SCIENCE - 6 CREDIT HOURS
Select courses from at least two different disciplines i.e. different prefixes.

☐ ANT 121+ Introduction to Anthropology (3)
☐ ANT 221+ Introduction to Physical Anthropology (3)
☐ ANT 222 Introduction to Archaeology (3)
☐ ANT 224 Cross-Cultural Relationships (3)
☐ ECO 221 Principles of Macroeconomics (3)
☐ ECO 222 Principles of Microeconomics (3)

☐ GEG 122 Cultural Geography (3)
☐ GEG 123 World Regional Geography (3)
☐ GXS 121+ Introduction to Gender Studies (3)
☐ GXS 229 Sex, Gender, and Power (3)
☐ HST 121+ History of Western Civilization to 1500 (3)
☐ HST 122+ History of Western Civilization 1500 to Present (3)
☐ HST 126+ History of Contemporary Non-Western Civilization (3)
☐ HST 127+ History of Chinese Culture and Society (3)
☐ HST 221 United States History to 1876 (3)
☐ HST 222 United States History 1876 to Present (3)
☐ HST 245+ History of Latin America to 1825 (3)
☐ HST 246+ History of Latin America from 1825 (3)
☐ PSC 121 American National Politics (3)
☐ PSC 122 State and Local Politics (3)
☐ PSC 221+ Comparative Political Systems (3)
☐ PSC 222+ International Relations (3)
☐ PSY 121 Introduction to Psychology (3)
☐ PSY 220 Lifespan Development (3)
☐ PSY 222 Child Growth and Development (3)
☐ PSY 225 Social Psychology (3)
☐ PSY 226 Adolescent Psychology (3)
☐ SOC 121 Introduction to Sociology (3)
☐ SOC 222 Social Problems (3)
☐ SOC 224 Sociology of the Family (3)
☐ SOC 225+ Class, Race, and Gender (3)
☐ SOC 229+ Sex, Gender, and Power (3)

PHYSICAL AND LIFE SCIENCES - 11 CREDIT HOURS
One course must be selected from Physical Science and one course from Life Science. Both courses must be IAI and laboratory science courses. A third course should be selected from the Physical Science course list or the Life Science course list.

☐ CHM 120L (LAB) Chemical Concepts (4)
☐ CHM 121L (LAB) General Chemistry I (5)
☐ CHM 142L (LAB) Chemistry for a Changing World (4)
☐ ESC 120L (LAB) Earth Science (4)
☐ ESC 121L (LAB) Physical Geology (4)
☐ ESC 127L (LAB) Introduction to Meteorology (4)
☐ ESC 140L (LAB) Introduction to Astronomy (4)
☐ GEG 120L (LAB) Physical Geography (4)
☐ PHY 120L (LAB) Practical Aspects of Physics (4)
☐ PHY 121L (LAB) General Physics I (5)
☐ PHY 123L (LAB) Physics for Science and Engineering I (5)

LIFE SCIENCE
☐ BIO 120L (LAB) Environmental Biology (4)
☐ BIO 123L (LAB) Principles of Biology (4)
☐ BIO 141L (LAB) Concepts of Biology (4)
☐ BIO 161L (LAB) General Biology I (4)

ADDITIONAL SCIENCE COURSE LIST
Any BIO, CHM, ESC, GEG, HRT or PHY course with a 1.1 PCS code, excluding GEG 122 and GEG 123. The PCS code for each course is listed in the course descriptions starting on page 263 of this catalog.

MATHEMATICS – 7 CREDIT HOURS
One course MUST be selected from the courses with an IAI number (shown in bold) in order to meet CLC graduation requirements.

☐ MTH 121 Mathematics for Elementary Teaching (3)
☐ MTH 122 College Algebra (4)
☐ MTH 123 Trigonometry
☐ MTH 127 Finite Mathematics I (3)
☐ MTH 144 Precalculus (5)
☐ MTH 145 Calculus and Analytic Geometry I (5)
☐ MTH 146 Calculus and Analytic Geometry II (4)
☐ MTH 221 Mathematics for Elementary Teaching II (3)
☐ MTH 222 Business Statistics (4)
At least one course must be selected from the Humanities section and one course from the Fine Arts section.

**HUMANITIES**
- ARA 222+
- CHI 222+
- ENG 129+
- ENG 223
- ENG 225
- ENG 226
- ENG 227
- ENG 228+
- ENG 229
- ENG 241
- ENG 243
- ENG 244+
- ENG 246+
- ENG 247+
- ENG 249
- FRN 222+
- FRN 224
- GER 222+
- GER 224
- HUM 121+
- HUM 122+
- HUM 127
- HUM 128+
- HUM 129+
- HUM 141+
- HUM 211+
- HUM 226+
- ITL 222+
- ITL 223
- JPN 222+
- PHI 121
- PHI 122
- PHI 123
- PHI 125+
- PHI 126+
- PHI 221+
- RUS 222+
- SPA 222+
- SPA 223+
- SPA 224+
- DNC 240+
- HUM 121+
- HUM 122+
- HUM 123
- HUM 126+
- HUM 129+
- HUM 140+
- HUM 141+
- HUM 211+
- HUM 222
- HUM 226+
- HUM 227
- HUM 228+
- HUM 229

**FINE ARTS**
- DNC 240+
- HUM 121+
- HUM 122+
- HUM 123
- HUM 126+
- HUM 129+
- HUM 140+
- HUM 141+
- HUM 222
- HUM 226+
- HUM 227
- HUM 228+
- HUM 229
- MUS 124
- MUS 224
- THE 121
- THE 123+

**INTRODUCTION/MULTICULTURAL REQUIREMENTS**
Include one course in International/Multicultural Education—Choose one course with a + following the course number.

**AREA OF CONCENTRATION/ELECTIVE REQUIREMENTS - 21 CREDIT HOURS**
- Choose elective courses with a 1.1 (transfer course) PCS code that relate to your intended major. Students should choose electives only after consulting with an Advising Professional. The PCS code for each course is listed in the course descriptions starting on page 263 of this catalog.
- **Exception:** Up to six hours of courses with a 1.2 (career course) PCS code may be used as general electives in the degree. All 199 courses are exempt from this rule. Students should select these courses only after they have verified their transferability with their Advising Professional or the transfer institution. EDU 999 does not count toward this six-hour limit.
- Students may not receive credit towards degree for both CHM 140 and CHM 142, or both BIO 120 and BIO 140, or both ESC 123 and ESC 127.
- Students with credit for both MTH 122 and MTH 144 will not be given credit for MTH 144. Students may not receive credit towards degree for both (MTH 122 and MTH 144) or (MTH 123 and MTH 144).
- Please review lists of recommended courses for individual programs of study listed on pages 58-262 in this catalog.

**OTHER GRADUATION REQUIREMENTS**
- Cumulative CLC GPA of 2.00 or higher
- Completion of at least 15 credit hours at CLC
- Petition to Graduate: The Petition to Graduate form must be submitted to the Welcome and One-Stop Center to have your degree processed. It can be found online at www.clcillinois.edu/petition. Contact Admissions for more information at (847) 543-2061. Deadlines to Petition: Spring – February 15; Summer – July 1; Fall – October 1

2019-2020 College of Lake County Catalog 221
CERTIFIED NURSE ASSISTING
Biological and Health Sciences Division
Room B213 (847) 543-2042
www.clcillinois.edu/programs/nur

CERTIFIED NURSE ASSISTING
(Certificate) Plan 21NB

This is not a limited enrollment program, however, seats fill quickly. Day, evening and Friday-Saturday options are available. Theory classes are offered at all CLC campuses depending upon the section in which you are enrolled. Clinicals are conducted at long term care facilities throughout the community.

This program prepares students for employment as nurse assistants helping those who provide patient care. While the majority of nurse assistants work in long-term care facilities, some are employed in hospitals and other care settings. The program includes emphasis on basic nurse assistant skills and related knowledge. It also provides campus and clinical laboratory experiences and focuses on the role of the nurse assistant as part of the health care team and in meeting legal and regulatory parameters.

This program is approved by the Illinois Department of Public Health, 525 West Jefferson, Springfield, IL 62761, www.idph.state.il.us. Students must satisfy the state required theory and clinical hours of attendance. Students who fail to attend the first day of class or clinical or fail to meet the state required hours of attendance throughout the course will not be allowed to continue in the class. Students MUST OFFICIALLY WITHDRAW THEMSELVES from the class by the refund date listed in the current class schedule in order to cancel their financial obligations.

The State of Illinois Health Care Worker Background Check Act of 1995 requires the college to initiate a fingerprint criminal history record check on all individuals registering for the program. The background check and health requirements must be completed prior to enrolling in the course. Students with disqualifying convictions will not be allowed to continue in the course. Disqualifying convictions can be viewed at www.idph.state.il.us/nar/disconvictions.htm. Please consult the CLC nursing web page for additional information regarding the background check at www.clcillinois.edu/programs/nur.

Upon successful completion of this program, students are eligible to take the state mandated written competency examination for Nurse Assistant Certification. To be eligible to take the state exam, students must pass the skill portion of the course and receive a “C” or better grade.

PREREQUISITES
Students must be at least 16 years of age and have met one of the following prerequisites:

1. Next-Gen score of 480 or higher
   OR
2. TABE (form A) score of 10 or higher
   OR
3. APT score of 122 or higher
   OR
4. ELI Accuplacer score of 285 or higher
   OR
5. COMPASS ELI score of 251 or higher
   OR
6. ELI 97 and 98 with a B or higher
   OR
7. ELI 107 with a C or higher
   OR
8. ELI 108 with C or higher or ENG 108 with a C or higher
   OR
9. College Reading and Writing Readiness

Additional Requirements prior to enrollment:
• Disclosure and Authorization form must be completed and submitted to the Nursing Education Office
   * http://dept.clcillinois.edu/nur/ DisclosureAndAuthorizationForm.pdf
   * After submission, the student will be provided with a form they will need to take with them for fingerprinting, as well as fingerprinting times and locations
• Receipt from fingerprinting vendor
• Health Passport from the CLC Health Center showing that health requirements were met. Contact CLC Health Center for more information at (847) 543-2064

CERTIFICATE REQUIREMENTS
To receive the Certified Nurse Assisting Certificate, a student must receive a minimum grade of “C” in the following NUR course and maintain a CLC GPA of 2.0 or higher.

FIRST SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 110</td>
<td>7</td>
<td>Nurse Assisting</td>
</tr>
</tbody>
</table>

Total Hours for Certificate: 7

For more information on recommended courses or program specific advising, contact faculty member Imelda Forsberg at (847) 543-2337, Ruth Belec-Olander at (847) 543-6525 or the Nursing Education office at (847) 543-2043.
COMPUTED TOMOGRAPHY
Biological and Health Sciences Division
Room B213 (847) 543-2042
www.clcillinois.edu/programs/mim

COMPUTED TOMOGRAPHY
(Certificate) Plan 21MT

The Computed Tomography (CT) certificate prepares radiographers to work in medical facilities as a CT Technologist. Graduates of the program are qualified to take the national CT certification examination given by the American Registry of Radiologic Technologists (ARRT).

REQUIREMENTS
This is a limited enrollment program. Didactic courses are only offered online. Students are required to meet the screening requirements in effect at the time of screening. Students who screen and are accepted into a limited enrollment program will be required to complete the curriculum that is in place at the time of entrance into the program. If students who screen are not granted admission, they must rescreen and satisfy all screening and curriculum requirements in place for a future program start.

Consistent with the Mission and Goals of the College of Lake County, the Computed Tomography certificate strive for excellence in preparing students for advanced-level positions in the Medical Imaging profession. By maintaining high academic and clinical standards, graduates receive a certificate in CT, become eligible for certification as a CT Registered Technologist, and attain clinical competency as advanced professional radiographers.

1. Students must have submitted the following documents to the Welcome and One-Stop Center:
   A. Student Information Form.
   B. CT Request for Screening Form
   C. Copy of current certification of your imaging field
   D. A professional resume documenting years of experience in a related imaging field (must include employer, job responsibilities, and dates employed)

2. Meet minimum technical performance standards as defined for the profession. See pages 243-244.

Please note that CT is an advanced certificate and open only to students who are registered in radiography or radiation therapy. In addition, students must maintain registration in radiography or radiation therapy by the ARRT at all times to be eligible for certification and registration in Computed Tomography.

SCREENING DEADLINE
The deadline is the first Wednesday in March of even years. If space is available in the program after the initial screening deadline, qualified students will be accepted in an order based on academic qualifications. All required materials must be submitted to the Records Office by the screening deadline.

The number of students that can be admitted to any clinical education course is limited for any given session. Therefore, a screening procedure is used to select the academically best qualified from those who request consideration.

- Preference is given to residents of CLC’s district, or a community college district which does not offer a Medical Imaging program and is a member of the CAREER consortium. Students who live outside of CLC’s district but are eligible for in-district tuition because they are employed by a district employer are NOT considered residents of the district for purposes of selection into the program.
- Students who are selected for the program are required to undergo a background check and a urine drug screen. The results of the background check and drug screen may result in the student losing his/her seat in the program. The costs are borne by the student. Students must maintain a minimum grade of “C” in each Medical Imaging course to continue in and graduate from the CT program. In addition, students must maintain a CLC GPA of 2.0 or higher.

Note: The lecture portion of the courses is taught online

FALL SEMESTER (EVEN YEARS) 8
MIM 252 CT Physics, Instrumentation, and Procedures I 3
MIM 256 CT Sectional Anatomy and Pathology I 3
MIM 273+ CT Practicum I 2

SPRING SEMESTER 8
MIM 254 CT Physics, Instrumentation, and Procedures II 3
MIM 258 CT Sectional Anatomy and Pathology II 3
MIM 274 CT Practicum II+ 2

Total Hours for Certificate 16

* The Practicum has been designed to be flexible and accommodate a variety of schedules. Actual clinic days and hours will be determined by the student and the instructor.

Gainful Employment Information:
www.clcillinois.edu/gemim

For more information on recommended courses or program specific advising, contact faculty member Lynn Wiechert at (847) 543-2880 or the Biological and Health Sciences division at (847) 543-2042.
DENTAL HYGIENE
Biological and Health Sciences Division
Room B213, (847) 543-2042
www.clcillinois.edu/programs/dhy

Degree: Associate in Applied Science,
Dental Hygiene
Plan 21DH

This is a Limited Enrollment program.
DHY courses are only offered during the day.

Students are required to meet the screening requirements in effect at the time of screening.
Students who screen and are accepted into a limited enrollment program will be required to complete the curriculum that is in place at the time of entrance into the program.
If students who screen are not granted admission, they must rescreen and satisfy all screening and curriculum requirements in place for a future program start.

SCREENING DEADLINE:
FIRST WEDNESDAY IN FEBRUARY
Dental hygienists are licensed professionals who provide oral health assessment, disease prevention, and health promotion. They are vital members of a dental health team. They serve individuals and families within the community. The Dental Hygiene program at the College of Lake County prepares students to develop the competencies needed to present extensive, preventive oral health care services to the community. The Dental Hygiene program has been granted accreditation status by the American Dental Association.

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

The number of students that can be admitted to the Dental Hygiene program is limited; therefore, a screening procedure is used to select the academically best qualified from those who request consideration. Preference is given to residents of CLC’s district, or a community college district which does not offer a Dental Hygiene program and is a member of the CAREER consortium. Students who live outside of CLC’s district but are eligible for in-district tuition because they are employed by a district employer are NOT considered residents of the district for purposes of selection into the program. Attendance at a Program Information Session is required to apply to the program and to learn other specifics of the application process.

STUDENTS MUST HAVE SUBMITTED THE FOLLOWING DOCUMENTS TO THE WELCOME AND ONE-STOP CENTER:

A. Student Information Form
B. Official high school transcript with graduation date
OR
Official GED test scores
OR
Official college transcripts with graduation date and degree awarded
OR
Official foreign high school or college transcript evaluated by a NACES approved agency
C. Dental Hygiene Program Request for Screening Form
D. If using courses from another college to meet prerequisites or degree requirements, submit an official transcript and a “Request for Evaluation of Prior College Transcripts” form to the Office of Registrar and Records.

MINIMUM SELECTION CRITERIA:
STUDENT RECORDS MUST INDICATE THE FOLLOWING:

A. College Reading and Writing Readiness and Basic Algebra Readiness
B. CLC Cumulative GPA is 2.0 or above
C. BIO 123 or BIO 161 or an equivalent (C or better)
D. CHM 120 or CHM 121 or an equivalent course (C or better)
E. BIO 244 or an equivalent course (C or better)
F. NLN PAX with minimum acceptable RN percentile rank scores of 30 in the verbal, math and science sections, and a composite percentile of 40 (within 3 years prior to the screening deadline)
G. Must be eighteen (18) years of age by the first day of the summer session following the screening deadline
H. Attendance at a Dental Hygiene Program Information Session (within 2 years of the screening deadline)

Note: If BIO 244 AND BIO 246 (or equivalent) are completed at another accredited college with a grade of “C” or better, BIO 123 will not be required.

Note: Applicants may take the NLN PAX exam once every 90 days (approximately three months). NLN PAX exam results that are less than 90 days between exams will not be considered. Scores used for screening into the dental hygiene program will be valid for only 3 years prior to a screening deadline. Scores older than 3 years will not be considered for screening. A valid Social Security Number
is required to acquire the state license, and may be needed for background checks and/or clinical locations. Visit [www.nlnonlinetesting.org](http://www.nlnonlinetesting.org) for available test dates and times or visit the Dental Hygiene webpage at [www.clcillinois.edu/programs/dhy](http://www.clcillinois.edu/programs/dhy). Instructions for registering for the test are available on the webpage.

Students who have completed any of the following courses (or an equivalent) must have obtained a grade of “C” or better. These courses are not prerequisites, but program requirements. They may be taken prior to acceptance into the program.

- **BIO 245** Anatomy and Physiology II
  Must be completed before the first fall semester of the program

- **BIO 246** Microbiology
  Must be completed before the first spring semester of the program. If this course is taken during the first fall semester of the program, it must be taken as an evening class.

- **ENG 121** English Composition I
  Must be completed before the first fall semester in the program.

Students who are selected for the program are required to attend a mandatory orientation session. Failure to attend the mandatory orientation session may result in the student losing their seat in the program and the next qualified student on the list will be selected in his/her place.

Note: A student must earn a minimum grade of “C” in each Dental Hygiene course to continue in and graduate from the program. All course prerequisites must be met.

### REQUIRED DENTAL HYGIENE COURSEWORK

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>FIRST</td>
<td>DHY 111</td>
<td>Preclinical Theory and Practice of Dental Hygiene</td>
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<td></td>
<td>DHY 113</td>
<td>Preclinical Dental Hygiene</td>
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<tr>
<td></td>
<td>DHY 115</td>
<td>Head and Neck Anatomy</td>
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<td>DHY 117</td>
<td>Dental Anatomy</td>
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<td>DHY 131</td>
<td>Oral Histology and Embryology</td>
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<td></td>
<td>DHY 171</td>
<td>Preventive Dental Hygiene</td>
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<tr>
<td>SECOND</td>
<td>DHY 112</td>
<td>Theory and Practice of Dental Hygiene I</td>
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<td>DHY 114</td>
<td>Clinical Dental Hygiene I</td>
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<tr>
<td></td>
<td>DHY 116</td>
<td>Dental Radiology I</td>
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<td></td>
<td>DHY 119</td>
<td>Nutrition and Biochemistry</td>
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<td>DHY 174</td>
<td>Introduction to Periodontics</td>
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<td>DHY 175</td>
<td>Dental Pharmacology and Anesthetics</td>
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<td>Theory and Practice of Dental Hygiene II</td>
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<td>DHY 176</td>
<td>Dental Materials and Expanded Function</td>
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<tr>
<td>THIRD</td>
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<td>Theory and Practice of Dental Hygiene III</td>
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<td>Clinical Dental Hygiene III</td>
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<td>DHY 215</td>
<td>Dental Radiology II</td>
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<td>DHY 219</td>
<td>Advanced Periodontics</td>
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<tr>
<td></td>
<td>DHY 232</td>
<td>General and Oral Pathology</td>
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<td></td>
<td>DHY 271</td>
<td>Community Dentistry I</td>
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<th>Hours</th>
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<td></td>
<td>DHY 231</td>
<td>Board Review and Licensure</td>
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<td>DHY 272</td>
<td>Community Dentistry II</td>
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**Total Hours for A.A.S. Degree**: 79

**Note**: This program is based at the Lakeshore Campus in Waukegan, however, non-DHY courses may be offered only at the Grayslake Campus.

For more information on recommended courses or program specific advising, contact the following faculty members or the Biological and Health Sciences division at (847) 543-2042:

- Kim Aichele
- Mary Jacobs
- Sue Nierstheimer
HEALTH AND WELLNESS COACHING
Biological and Health Sciences Division
Room B213, (847) 543-2042
www.clcillinois.edu/programs/hwp

HEALTH AND WELLNESS COACHING
(Certificate) Plan 21WC

The Health and Wellness Coaching certificate program is designed to provide students with the knowledge, skills, and abilities required to serve as a health and wellness coach. Successful completion of the required coursework will assist students in obtaining entry-level employment. It will also enable students to utilize a coaching approach in other professional and personal capacities. Many healthcare employers find job candidates who are cross-trained in health and wellness coaching to be highly desirable. The certificate program is approved by the National Board for Health and Wellness Coaching (NBHWC). Graduates who meet other basic requirements are permitted to sit for the national board certification examination and may earn status as a National Board Certified Health and Wellness Coach (NBC-HWC). This board-level credential is offered through a partnership between the NBHWC and the National Board of Medical Examiners (NBME).

FIRST SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
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<th>Hours</th>
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<tbody>
<tr>
<td>HWP 240</td>
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<tr>
<td>HWP 257</td>
<td>Health and Wellness Practicum I</td>
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<tr>
<td>PED 242</td>
<td>Philosophy of Coaching</td>
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SECOND SEMESTER

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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>HWP 290</td>
<td>Principles of Wellness Coaching</td>
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<tr>
<td>HWP 258</td>
<td>Health and Wellness Practicum II</td>
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<tr>
<td>CMM 128</td>
<td>Interviewing Practices</td>
<td>3</td>
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<tr>
<td>PSY 121</td>
<td>Introduction to Psychology</td>
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</table>

Total Hours for Certificate: 17

Gainful Employment Information:
www.clcillinois.edu/gehwp

For more information on recommended courses or program specific advising, please contact department chair Joana Pabedinskas at (847) 543-2029 or the Biological and Health Sciences Division at (847) 543-2042.
HEALTH AND WELLNESS PROMOTION
Biological and Health Sciences Division
Room B213, (847) 543-2042
www.clcillinois.edu/programs/hwp

The focus of the A.A.S. in Health and Wellness Promotion (HWP) is to empower students to help others through prevention of illness, injury, and disease by effective application of principles and practices of holistic coaching. It also provides an opportunity for various health career certificate-seeking students to continue their education in a general health studies capacity and earn an associates degree. Successful completion of this program will prepare students for advanced certifications through the American College of Sports Medicine, Wellcoaches Corporation, and the International Coach Federation.

The associate degree program is accredited by the National Wellness Institute and the associate degree program (health and wellness coaching option) is approved by the National Board for Health and Wellness Coaching (NBHWC). Graduates who meet other basic requirements are permitted to sit for the national board certification examination and earn a status as a National Board Certified Health and Wellness Coach (NBC-HWC). Graduates of the AAS in HWP who also possess a BS/BA degree in any discipline qualify to receive the designation, Certified Wellness Practitioner (CWP) through NWI.

Note: Day and evening classes are available. The HWP program is not a limited-enrollment program.

Students are strongly encouraged to attend an information session to learn more about the program.

HEALTH AND WELLNESS PROMOTION: EXERCISE SCIENCE OPTION

Degree: Associate in Applied Science, Health and Wellness Promotion: Exercise Science Option
Plan 21WA

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
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<tr>
<td>HWP 257</td>
<td>Health and Wellness Practicum I</td>
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<tr>
<td>PED 221</td>
<td>Introduction to Physical Education or Other elective</td>
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<tr>
<td>PED 243</td>
<td>Theory and Practice of Fitness</td>
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<td>HWP 240</td>
<td>Contemporary Health Issues</td>
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<td>PSY 121</td>
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<tr>
<td>ENG 120</td>
<td>Technical Composition I or</td>
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<tr>
<td>PED 270</td>
<td>Biomechanics and Kinesiology</td>
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<tr>
<td>PED 271</td>
<td>Exercise Physiology</td>
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<tr>
<td>HWP 260</td>
<td>Sport and Exercise Nutrition</td>
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<tr>
<td>CMM 111</td>
<td>Communication Skills or</td>
</tr>
<tr>
<td>CMM 121</td>
<td>Fundamentals of Speech or</td>
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<tr>
<td>CMM 123</td>
<td>Dynamics/Small Group Discussion</td>
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<td>PED 242</td>
<td>Philosophy of Coaching or Other elective</td>
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<th>THIRD SEMESTER</th>
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<tr>
<td>PED 272</td>
<td>Exercise Testing and Prescription</td>
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<tr>
<td>HWP 280</td>
<td>Introduction to Complementary and Integrative Health Care</td>
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<tr>
<td>HWP 290</td>
<td>Principles of Wellness Coaching</td>
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<td>PED 121</td>
<td>Individual Activities: Strength Training or Other elective</td>
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<tr>
<td>BIO 111</td>
<td>Human Form and Function or</td>
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<tr>
<td>BIO 244*</td>
<td>Anatomy and Physiology I</td>
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<th>FOURTH SEMESTER</th>
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<tbody>
<tr>
<td>HWP 258</td>
<td>Health and Wellness Practicum II</td>
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<tr>
<td>PED 228</td>
<td>First Aid/CPR</td>
</tr>
<tr>
<td>BUS 121</td>
<td>Introduction to Business</td>
</tr>
<tr>
<td>PHI 121</td>
<td>Introduction to Philosophy or</td>
</tr>
<tr>
<td>PHI 125</td>
<td>Introduction to Ethics</td>
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<tr>
<td>HWP 299</td>
<td>Special Topics: Personal Wellness or Other elective</td>
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<tr>
<td>PED 220</td>
<td>Physical Education in the Elementary Schools or Other elective</td>
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<tr>
<td>PED 160</td>
<td>Individual Activities: Yoga or Other elective</td>
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<th>FIFTH SEMESTER</th>
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<tr>
<td>BIO 245*</td>
<td>Anatomy and Physiology II</td>
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<td>(If taking the BIO 244/245 sequence)</td>
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</table>

Total Hours for A.A.S. Degree 60-64

* Preferred courses for students planning to transfer to a 4-year institution. BIO 244 must be taken with BIO 245 in lieu of BIO 111. (NOTE: BIO 244 has a prerequisite of BIO 123 or BIO 161).

Continued on next page.
HEALTH AND WELLNESS
PROMOTION: MASSAGE THERAPY OPTION

Degree: Associate in Applied Science, Health and Wellness Promotion: Massage Therapy Option
Plan 21WA

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

FIRST SEMESTER  
HWP 257 Health and Wellness Practicum 1  
MAS 119 Introduction to Massage Therapy 1  
BIO 111 Human Form and Function or  
BIO 244* Anatomy and Physiology I 4  
PED 228 First Aid/CPR 2  
HWP 240 Contemporary Health Issues 3

SECOND SEMESTER  
MAS 110 Massage Structure and Functions I 2  
MAS 112 Kinesiology and Palpation I 2  
MAS 114 Massage: Communication and Business I 3  
MAS 116 Clinical Skills and Special Populations 3  
MAS 131 Massage Therapy I: Swedish 2  
MAS 132 Massage Therapy II: Integrative 2

THIRD SEMESTER  
MAS 210 Massage Structure and Functions I 2  
MAS 212 Kinesiology and Palpation II 2  
MAS 214 Massage: Communication and Business II 3  
MAS 233 Massage Therapy III: Rehabilitative 2  
MAS 234 Massage Therapy IV: Advanced Techniques 2  
MAS 235 Therapeutic Massage Clinic 1

FOURTH SEMESTER  
ENG 120 Technical Composition or  
ENG 121 English Composition I 3  
HWP 260 Sport and Exercise Nutrition 3  
HWP 280 Introduction to Complementary and Integrative Health Care 3  
HWP 290 Principles of Wellness Coaching 3  
CMM 111 Communication Skills or  
CMM 121 Fundamentals of Speech or  
CMM 123 Dynamics/Small Group Discussion 3

FIFTH SEMESTER  
HWP 258 Health and Wellness Practicum II 1  
PHI 121 Introduction to Philosophy or  
PHI 125 Introduction to Ethics 3  
BUS 121 Introduction to Business 3  
PSY 121 Introduction to Philosophy 3  
BIO 245* Anatomy and Physiology II (If taking the BIO 244/245 sequence) 4

Total Hours for A.A.S. Degree 60-64

* Preferred courses for students planning to transfer to a 4-year institution. BIO 244 must be taken with BIO 245 in lieu of BIO 111. (NOTE: BIO 244 has a prerequisite of BIO 123 or BIO 161).

HEALTH AND WELLNESS PROMOTION: HEALTH AND WELLNESS COACHING OPTION

Degree: Associate in Applied Science, Health and Wellness Promotion: Health and Wellness Coaching Option
Plan 21WA

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

FIRST SEMESTER  
HWP 257 Health and Wellness Practicum 1  
PED 242 Philosophy of Coaching 3  
PED 220 Contemporary Health Issues 3  
ENG 120 English Composition I 3  
ENG 121 English Composition II 3  
CMM 111 Communication Skills or  
CMM 121 Fundamentals of Speech or  
CMM 123 Dynamics/Small Group Discussion 3

SECOND SEMESTER  
HWP 260 Sport and Exercise Nutrition 3  
HWP 280 Introduction to Complementary and Integrative Health Care 3  
HIT 111 Medical Terminology or  
CMM 128 Interviewing Practices 3  
PSY 121 Introduction to Psychology 3

THIRD SEMESTER  
HWP 290 Principles of Wellness Coaching 3  
PED 228 First Aid/CPR 2  
HWP 299 Special Topics: Health and Wellness Promotion or  
PED 160 Yoga I or Other elective 3

FOURTH SEMESTER  
HWP 258 Health and Wellness Practicum II 1  
PHI 121 Introduction to Philosophy or  
PHI 125 Introduction to Ethics 3  
PSY 224 Theories of Personality 3  
CMM 127 Intercultural Communication or Other elective 3  
ANT 121 Introduction to Anthropology or Other elective 3

FIFTH SEMESTER  
BIO 245* Anatomy and Physiology II (If taking the BIO 244/245 sequence) 4

Total Hours for A.A.S. Degree 60-64

* Preferred courses for students planning to transfer to a 4-year institution. BIO 244 must be taken with BIO 245 in lieu of BIO 111. (NOTE: BIO 244 has a prerequisite of BIO 123 or BIO 161).

Gainful Employment Information: www.clcillinois.edu/gehwp

For more information on recommended courses or program specific advising, please contact department chair Joana Pabedinskas at (847) 543-2029 or the Biological and Health Sciences Division at (847) 543-2042.
HEALTH INFORMATION TECHNOLOGY
Biological and Health Sciences Division
Room B213, (847) 543-2042
www.clcillinois.edu/programs/hit

Degree: Associate in Applied Science,
Health Information Technology
Plan 21HM

This is a limited enrollment program. Students are required to meet the screening requirements in effect at the time of screening. Students who screen and are accepted into a limited enrollment program will be required to complete the curriculum that is in place at the time of entrance into the program. If students who screen are not granted admission, they must rescreen and satisfy all screening and curriculum requirements in place for a future program start.

SCREENING DEADLINE:
FIRST WEDNESDAY IN FEBRUARY

The field of health information provides a wide variety of professional opportunities in the health care industry. Health information is a unique profession that incorporates clinical, information technology and management skills, giving graduates the background to work in a range of health care settings. Courses in medical terminology, anatomy and physiology, and medical science lay the foundation for the program, which focuses on collecting, maintaining, retrieving, and analyzing the health information of patients. Students also learn the legal aspects of health information, statistics, coding and reimbursement methods, health care quality improvement techniques, as well as health records management.

Graduates of CLC’s Health Information Technology Program include coding professionals, health information department managers, cancer registrars, nursing home consultants, clinical documentation specialists, medical billers, and medical office managers, among others. Work settings include hospitals, physicians’ offices, clinics, insurance companies, professional associations, nursing homes, and medical billing services.

For students interested in health care, but not direct patient care, health information technology prepares students for a satisfying and rewarding career in health care and related fields.

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

ACCREDITATION AND CERTIFICATION
The Health Information Technology Program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM). Graduates of the program are eligible to apply to write for the certification examination of the American Health Information Management Association for the designation RHIT (Registered Health Information Technician).

ADMISSION TO THE PROGRAM
Many courses are available in the evening; however, to complete the degree some day-only classes are required.

Interested students may take HIT 111, 113, 115, 117, 131, 132, 171, 215 and 271 prior to being admitted to the program; however, the number of students admitted to the Professional Practice Experience (HIT 212 and HIT 213) each year is limited. Therefore, a screening procedure is used to select the academically best qualified from those who request consideration. Preference is given to residents of CLC’s district, or a community college district which does not offer a Health Information Technology program and is a member of the CAREER consortium. Students who live outside of CLC’s district but are eligible for in-district tuition because they are employed by a district employer are NOT considered residents of the district for purposes of selection into the program. Students who live outside of CLC’s district but are eligible for in-district tuition because they are employed by a district employer are NOT considered residents of the district for purposes of selection into the program. Students should seek admission to the Health Information Technology Program the year prior to enrolling in HIT 212. (e.g., If you expect to take HIT 212 in Fall 2021, apply by February 2020.) If you are accepted into the program and do not enroll in HIT 212 as scheduled, CLC will attempt to accommodate the schedule change but there is no guarantee you will be permitted to enroll in HIT 212 in subsequent years. Please review the admission requirements that are listed below.

To be considered for admission to the Health Information Technology Program, students must complete the following screening requirements prior to the screening deadline.

Continued on next page.
WELLNESS AND HEALTH SCIENCES PROGRAMS

STUDENTS MUST HAVE SUBMITTED THE FOLLOWING DOCUMENTS TO THE WELCOME AND ONE-STOP CENTER:

A. Student Information Form
B. Official high school transcript with graduation date
OR
Official GED test scores
OR
Official college transcripts with graduation date and degree awarded
OR
Official foreign high school or college transcript evaluated by a NACES approved agency
C. Health Information Technology Program Request for Screening Form
D. If using courses from another college to meet prerequisites or degree requirements, submit an official transcript and a “Request for Evaluation of Prior College Transcripts” form to the Office of Registrar and Records.

MINIMUM SELECTION CRITERIA: STUDENT RECORDS MUST INDICATE THE FOLLOWING:

A. High school graduate or equivalent or high school senior in last term
B. College Reading and Writing Readiness and Basic Algebra Readiness
C. CLC Cumulative GPA is 2.0 or above
D. NLN PAX with minimum composite RN percent tile rank of 50 (within 3 years prior to the screening deadline)
E. Attendance at a Health Information Technology Information Session (within two years of the screening deadline)

Note: Applicants may take the NLN PAX exam once every 90 days (approximately three months). NLN PAX exam results that are less than 90 days between exams will not be considered. Scores used for screening into the HIT program will be valid for only 3 years prior to a screening deadline. Scores older than 3 years will not be considered for screening. Visit www.nlnonlinetesting.org for available test dates and times or visit the Health Information Technology webpage at www.clicillinois.edu/programs/hit.

Instructions for registering for the test are available on the webpage.

Students who are selected for the program are required to undergo a background check and a urine drug screen. The results of the background check and drug screen may result in the student losing his/her seat in the program. The costs are borne by the student.

Students who are selected for the program are required to attend a mandatory orientation session. Failure to attend the mandatory orientation session may result in the student losing his/her seat in the program and the next qualified student on the list will be selected in his/her place.

Students must earn a grade of “C” or better” in all HIT and BIO courses.

<table>
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<th>SUMMER SESSION</th>
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<tbody>
<tr>
<td>HIT 111</td>
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**FIRST SEMESTER**

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<td>HIT 119</td>
<td>Pharmacology</td>
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<td>HIT 131</td>
<td>Basic ICD-10-CM Coding</td>
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<tr>
<td>HIT 215</td>
<td>Medical Science</td>
</tr>
<tr>
<td>BIO 111</td>
<td>Human Form and Function or</td>
</tr>
<tr>
<td>BIO 244</td>
<td>Anatomy and Physiology I and</td>
</tr>
<tr>
<td>BIO 245</td>
<td>Anatomy and Physiology II</td>
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**SECOND SEMESTER**

<table>
<thead>
<tr>
<th>HITS</th>
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<tbody>
<tr>
<td>HIT 113</td>
<td>Ethical/Legal Aspect of Medical Records</td>
</tr>
<tr>
<td>HIT 117</td>
<td>Basic CPT Coding</td>
</tr>
<tr>
<td>HIT 217</td>
<td>Health Information Systems and Data Literacy</td>
</tr>
<tr>
<td>HIT 272</td>
<td>Reimbursement Systems in Healthcare</td>
</tr>
<tr>
<td>AOS 112</td>
<td>Automated Office Technologies or</td>
</tr>
<tr>
<td>CIT 120</td>
<td>Introduction to Computers or</td>
</tr>
<tr>
<td>CIT 119</td>
<td>Introduction to Office Software</td>
</tr>
<tr>
<td>ENG 121</td>
<td>English Composition I or</td>
</tr>
<tr>
<td>ENG 120</td>
<td>Technical Composition</td>
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**SUMMER SESSION**

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<tr>
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**THIRD SEMESTER**

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<tbody>
<tr>
<td>HIT 132</td>
<td>Basic ICD-10-PCS Coding</td>
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<tr>
<td>HIT 171</td>
<td>Insurance Procedures for the Medical Office</td>
</tr>
<tr>
<td>HIT 212</td>
<td>Professional Practice Experience in Health Information I</td>
</tr>
<tr>
<td>CIT 111</td>
<td>Comprehensive Spreadsheet or</td>
</tr>
<tr>
<td>CIT 112</td>
<td>Comprehensive Database</td>
</tr>
<tr>
<td>CMM 111</td>
<td>Communication Skills or</td>
</tr>
<tr>
<td>CMM 121</td>
<td>Fundamentals of Speech or</td>
</tr>
<tr>
<td>CMM 122</td>
<td>Business and Professional Speaking or</td>
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<tr>
<td>CMM 123</td>
<td>Dynamics of Small Group Discussion or</td>
</tr>
<tr>
<td>CMM 128</td>
<td>Interviewing Practices</td>
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**FOURTH SEMESTER**

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<tr>
<th>HITS</th>
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<tbody>
<tr>
<td>HIT 271</td>
<td>Advanced Coding</td>
</tr>
<tr>
<td>HIT 231</td>
<td>Leadership and Management in Health Information Management</td>
</tr>
<tr>
<td>HIT 232</td>
<td>Quality Management and Healthcare Statistics</td>
</tr>
<tr>
<td>HIT 213</td>
<td>Professional Practice Experience in Health Information II (1st 8 weeks)</td>
</tr>
<tr>
<td>HIT 218</td>
<td>Seminar in Health Information Humanities or Fine Arts elective</td>
</tr>
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</table>

Total Hours for A.A.S. Degree: 64-68
HIT 217 and HIT 272 will be offered in the spring of 2020 ONLY.
HIT 231 and HIT 232 will be offered in the spring of 2021 ONLY.
If BIO 124 has been taken, BIO 111/BIO 244 and BIO 245 are not needed.

Students should seek the advice of the HIT faculty for course scheduling every semester.

For more information on recommended courses or program specific advising, contact faculty members Margaret Kryakos at (847) 543-2897, Christina Melnytschuk at (847) 543-2886 or the Biological and Health Sciences division at (847) 543-2042.

Students who are selected for the program are required to attend a mandatory orientation session. Failure to attend the mandatory orientation session may result in the student losing his/her seat in the program and the next qualified student on the list will be selected in his/her place.

Students must earn a grade of “C” or better” in all HIT and BIO courses.

**FIRST SEMESTER**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>HIT 115</td>
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<tr>
<td>HIT 119</td>
<td>Pharmacology</td>
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<td>HIT 131</td>
<td>Basic ICD-10-CM Coding</td>
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<tr>
<td>HIT 215</td>
<td>Medical Science</td>
</tr>
<tr>
<td>BIO 111</td>
<td>Human Form and Function or</td>
</tr>
<tr>
<td>BIO 244</td>
<td>Anatomy and Physiology I and</td>
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<td>BIO 245</td>
<td>Anatomy and Physiology II</td>
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**SECOND SEMESTER**

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<tr>
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Students should seek the advice of the HIT faculty for course scheduling every semester.

For more information on recommended courses or program specific advising, contact faculty members Margaret Kryakos at (847) 543-2897, Christina Melnytschuk at (847) 543-2886 or the Biological and Health Sciences division at (847) 543-2042.
HEALTHCARE OFFICE ASSISTANT
Biological and Health Sciences Division
Room B213, (847) 543-2042
www.clcillinois.edu/programs/moa

HEALTHCARE OFFICE ASSISTANT
(Certificate) Plan 21ME

This is not a limited enrollment program. Interested students do not need to screen to be admitted.

This certificate prepares students to work in the front office of a medical or dental office. Students in the program will learn how to schedule appointments, protect confidentiality of patient information, use proper telephone etiquette, and understand the health insurance claims process. An introduction to basic insurance coding will be included. Students must have adequate computer skills and access to the Internet to complete assignments in this program.

**FIRST SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>HIT 111</td>
<td>Medical Terminology</td>
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<tr>
<td>MOA 112</td>
<td>Basic Medical Office and Billing Procedures</td>
<td>4</td>
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**Total Hours for Certificate**

7

For more information on recommended courses or program specific advising, contact the Biological and Health Sciences division at (847) 543-2042.
KINESIOLOGY: EXERCISE SCIENCE FOCUS
Biological and Health Sciences Division
Room B213, (847) 543-2042
www.clcillinois.edu/programs/kin

Degree: Associate in Science
Plan 11AB

This program is recommended for students pursuing a B.S. in Kinesiology with an Exercise Science Focus. Students are strongly encouraged to meet with a faculty advisor/department chair early in their program to discuss the different options available within the field of Kinesiology.

To complete any transfer degree, students should select from the general education requirements outlined on page 37.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

Examples of Illinois four year schools offering a B.S. in Kinesiology with an Exercise Science/Movement Science focus include University of Illinois at Chicago, Loyola, DePaul, Elmhurst, University of Illinois at Urbana-Champaign, Southern Illinois (SI), Northern Illinois University (NIU), and Northeastern Illinois University.

**FIRST SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ENG 121</td>
<td>English Composition I</td>
<td>3</td>
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<tr>
<td>PED 221</td>
<td>Introduction to Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PED 243</td>
<td>Theory and Practice of Fitness</td>
<td>2</td>
</tr>
<tr>
<td>BIO 123</td>
<td>Principles of Biology or Other Life</td>
<td>4</td>
</tr>
<tr>
<td>PSY 121</td>
<td>Introduction to Psychology or Other</td>
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</table>

Total Hours for A.S. Degree 15

*Preferred courses for students planning to transfer to a 4-year institution for a B.S. in Kinesiology.

SECOND SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>HWP 257</td>
<td>Health and Wellness Practicum I</td>
<td>1</td>
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<tr>
<td>HWP 240</td>
<td>Contemporary Health Issues</td>
<td>3</td>
</tr>
<tr>
<td>PED 270</td>
<td>Biomechanics and Kinesiology</td>
<td>3</td>
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<tr>
<td>ENG 122</td>
<td>English Composition II or</td>
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<tr>
<td>ENG 126</td>
<td>Advanced Composition: Scientific and</td>
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<tr>
<td></td>
<td>Technical Communications</td>
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<tr>
<td>CMM 121</td>
<td>Fundamentals of Speech</td>
<td>3</td>
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<tr>
<td>MTH 140</td>
<td>Contemporary Mathematics or</td>
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<tr>
<td>MTH 141</td>
<td>Quantitative Literacy or</td>
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<tr>
<td>MTH 142</td>
<td>General Education Statistics</td>
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THIRD SEMESTER

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<tbody>
<tr>
<td>HWP 260</td>
<td>Sport and Exercise Nutrition</td>
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<tr>
<td>HWP 290</td>
<td>Principles of Wellness Coaching</td>
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<tr>
<td>PED 242</td>
<td>Philosophy of Coaching</td>
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<tr>
<td>BIO 244*</td>
<td>Anatomy &amp; Physiology I or Other</td>
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<td></td>
<td>Physical or Life Science Elective</td>
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<tr>
<td>HUM 127</td>
<td>Critical Thinking or Other</td>
<td>3</td>
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<td>Humanities Elective</td>
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<td>MTH 222</td>
<td>Business Statistics or Other</td>
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FOURTH SEMESTER

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<tbody>
<tr>
<td>PED 271</td>
<td>Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>CHM 120</td>
<td>Chemical Concepts or Other</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Physical Science Elective</td>
<td></td>
</tr>
<tr>
<td>SOC 121</td>
<td>Introduction to Sociology or</td>
<td>3</td>
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<tr>
<td></td>
<td>Other Social Science Elective</td>
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<tr>
<td>HUM 126+</td>
<td>Introduction to the Performing Arts</td>
<td>3</td>
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<td>or Other Fine Arts Elective</td>
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<tr>
<td>BIO 245*</td>
<td>Anatomy and Physiology II</td>
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</table>

Total Hours for A.S. Degree 17

For more information on recommended courses or program specific advising, please contact department chair Joana Pabedinskas at (847) 543-2029 or the Biological and Health Sciences Division at (847) 543-2042.
KINESIOLOGY: PHYSICAL EDUCATION FOCUS
Biological and Health Sciences Division
Room B213, (847) 543-2042
www.clcillinois.edu/programs/kin

Degree: Associate in Arts
Plan 13AB

This program is recommended for students pursuing a B.A. in Kinesiology with a Physical Education Focus. Students are strongly encouraged to meet with a faculty advisor/department chair early in their program to discuss the different options available within the field of Kinesiology.

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

FIRST SEMESTER 15
ENG 121 English Composition I 3
PED 221 Introduction to Physical Education 3
PED 243 Theory and Practice of Fitness 2
HWP 240 Contemporary Health Issues 3
HWP 257 Practicum I 1
PSY 121 Introduction to Psychology or Other Social Science Elective 3

SECOND SEMESTER 16
PED 220 Physical Education in the Elementary Schools 3
HWP 260 Sport and Exercise Nutrition 3
BIO 123 Principles of Biology or Other Life Science Elective 4
CMM 121 Fundamentals of Speech 3
PSY 220 Child Growth and Development or Other Social Science Elective 3

THIRD SEMESTER 15
PED 270 Biomechanics and Kinesiology 3
PED 242 Philosophy of Coaching 3
ENG 122 English Composition II or Advanced Composition: Scientific and Technical Communications 3
MTH 140 Contemporary Mathematics or Quantitative Literacy or General Education Statistics 3
MTH 141 Critical Thinking or Other Humanities Elective 3

FOURTH SEMESTER 15-16
PED 271 Exercise Physiology 3
CHM 120 Chemical Concepts or Chemistry for a Changing World or Other Physical Science elective 3-4
SOC 121 Introduction to Sociology or Other Social Science Elective 3
PHI 125+ Introduction to Ethics or Other Fine Arts or Humanities Elective 3
HUM 126+ Introduction to the Performing Arts or Other Fine Arts Elective 3

Total Hours for A.S. Degree 65

*Preferred courses for students planning to transfer to a 4-year institution for a B.A. in Kinesiology with a Physical Education focus.

For more information on recommended courses or program specific advising, please contact department chair Joana Pabedinskas at (847) 543-2029 or the Biological and Health Sciences Division at (847) 543-2042.
MAGNETIC RESONANCE IMAGING
Biological and Health Sciences Division
Room B213, (847) 543-2042
www.clcillinois.edu/programs/mim

MAGNETIC RESONANCE IMAGING (Certificate) Plan 21MR

The Magnetic Resonance Imaging (MRI) certificate prepares radiographers to work in medical facilities as MRI technologists. Graduates of the program are qualified to take the national MRI certification examination given by the American Registry of Radiologic Technologists.

REQUIREMENTS
This is a limited enrollment program. Didactic courses are only offered online. Students are required to meet the screening requirements in effect at the time of screening. Students who screen and are accepted into a limited enrollment program will be required to complete the curriculum that is in place at the time of entrance into the program. If students who screen are not granted admission, they must rescreen and satisfy all screening and curriculum requirements in place for a future program start.

Consistent with the Mission and Goals of the College of Lake County, the Magnetic Resonance Imaging certificate strive for excellence in preparing students for advanced-level positions in the Medical Imaging profession. By maintaining high academic and clinical standards, graduates receive a certificate in CT, become eligible for certification as a MRI Registered Technologist, and attain clinical competency as advanced professional radiographers.

1. Students must have submitted the following documents to the Welcome and One-Stop Center:
   A. Student Information Form.
   B. MRI Request for Screening Form
   C. Copy of current certification of your imaging field
   D. A professional resume documenting years of experience in a related imaging field (must include employer, job responsibilities, and dates employed)
2. Meet minimum technical performance standards as defined for the profession. See page 243-244.

Please note that MRI is an advanced certificate and open only to students who are registered in radiography or radiation therapy by the ARRT or in nuclear medicine technology by ARRT or the Nuclear Medicine Technology Certification Board (NMTCB) or in sonography by ARRT or in any sonography-related modality by ARDMS. In addition, students must maintain registration in radiography or radiation therapy by the ARRT or in nuclear medicine technology by the ARRT or NMTCB or in sonography by ARRT or in any sonography-related modality by ARDMS at all times to be eligible for certification and registration in magnetic resonance imaging.

SCREENING DEADLINE
The deadline is the first Wednesday in March of even years. If space is available in the program after the initial screening deadline, qualified students will be accepted in an order based on academic qualifications. All required materials must be submitted to the Records Office by the screening deadline.

The number of students that can be admitted to any clinical education course is limited for any given session. Therefore, a screening procedure is used to select the academically best qualified from those who request consideration.
• Preference is given to residents of CLC’s district, or a community college district which does not offer a Medical Imaging program and is a member of the CAREER consortium. Students who live outside of CLC’s district but are eligible for in-district tuition because they are employed by a district employer are NOT considered residents of the district for purposes of selection into the program.
• Students who are selected for the program are required to undergo a background check and a urine drug screen. The results of the background check and drug screen may result in the student losing his/her seat in the program. The costs are borne by the student. Students must maintain a minimum grade of “C” in each Medical Imaging course and graduate from the CT program. In addition, students must maintain a CLC GPA of 2.0 or higher.

Note: The lecture portion of the courses is taught online

FALL SEMESTER (ODD YEARS) 8
MIM 251 MRI Physics and Instrumentation 3
MIM 253 MRI Procedures 2
MIM 272 MRI Practicum+ 3

SPRING SEMESTER 7
MIM 255 MRI Sectional Anatomy and Pathology 4
MIM 272 MRI Practicum+ 3

Total Hours for Certificate 15

The Practicum has been designed to be flexible and accommodate a variety of schedules. Actual clinic days and hours will be determined by the student and the instructor.

Gainful Employment Information: www.clcillinois.edu/gemim

For more information on recommended courses or program specific advising, contact faculty member Lynn Wiechert at (847) 543-2880 or the Biological and Health Sciences division at (847) 543-2042.
MASSAGE THERAPY
Biological and Health Sciences Division
Room B213, (847) 543-2042
www.clcillinois.edu/programs/mas

This certificate program prepares students to achieve entry level competencies as massage therapists in sports clinics, salons, spas, hospitals, private practice, nursing homes, hospices, wellness centers, and other health care and recreational settings.

Successful completion of 3 prerequisite courses plus two semesters (9 month program is 2 semesters; 12 month program is 2 semesters plus summer session) in the CLC massage therapy program prepares students to complete the federal licensing exam (MBLEx). Students are then eligible to apply for licensure in Illinois and most other states. All courses comprise the Massage Therapy Program: individual courses may not be taken.

Students who are selected for the program are required to undergo a health physical, a background check and a urine drug screen prior to beginning the program. The results of the background check and drug screen may result in the student losing their seat in the program. The costs are borne by the student.

An option to earn an A.A.S. in Health and Wellness Promotion is also available. Visit www.clcillinois.edu/programs/mas for more details about the program.

Students must maintain a minimum grade of “C” in all MAS courses to continue in and graduate from the program. In addition, students must maintain a CLC GPA of 2.0 or higher to graduate.

MASSAGE THERAPY
(Certificate) Plan 21MS

PREREQUISITE COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>MAS 119</td>
<td>Introduction to Massage Therapy</td>
<td>1</td>
</tr>
<tr>
<td>BIO 111</td>
<td>Human Form and Function</td>
<td>4</td>
</tr>
<tr>
<td>PED 228</td>
<td>First Aid/CPR</td>
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</tr>
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FIRST SEMESTER

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<thead>
<tr>
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<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>MAS 110</td>
<td>Massage Structure and Functions I</td>
<td>2</td>
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<tr>
<td>MAS 112</td>
<td>Kinesiology and Palpation I</td>
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<tr>
<td>MAS 114</td>
<td>Massage: Communication and Business I</td>
<td>3</td>
</tr>
<tr>
<td>MAS 116</td>
<td>Clinical Skills and Special Populations</td>
<td>3</td>
</tr>
<tr>
<td>MAS 131</td>
<td>Massage Therapy I: Swedish</td>
<td>2</td>
</tr>
<tr>
<td>MAS 132</td>
<td>Massage Therapy II: Integrative</td>
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<th>Title</th>
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<tbody>
<tr>
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<td>Massage Structure and Function II</td>
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<tr>
<td>MAS 212</td>
<td>Kinesiology and Palpation II</td>
<td>2</td>
</tr>
<tr>
<td>MAS 214</td>
<td>Massage: Communication and Business II</td>
<td>3</td>
</tr>
<tr>
<td>MAS 233</td>
<td>Massage Therapy III: Rehabilitative</td>
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<tr>
<td>MAS 234</td>
<td>Massage Therapy IV: Advanced Tech.</td>
<td>2</td>
</tr>
<tr>
<td>MAS 235</td>
<td>Therapeutic Massage Clinic</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Hours for Certificate: 33

The above sequence of classes is for the 9-month program. For the 12-month program, please visit the massage therapy webpage at www.clcillinois.edu/programs/mas. The 12-month program includes required summer courses.

ACADEMIC PROGRAM ENTRANCE REQUIREMENTS

The following entrance requirements are required of all students:

- Attend a CLC Massage Therapy information session
- 18 years of age or older
- High school graduate or earned GED
- College Reading and Writing Readiness
- Must provide a CLC/Health Physical form completed by a professional healthcare provider
- Must pass a background check and urine drug screening.

Continued on next page.
NONACADEMIC PROGRAM ENTRANCE REQUIREMENTS
Because of the inherent requirements of the profession, the following minimum abilities or essential technical functions are expected of the student:
• Lifting, stretching, and standing over the course of one or two hours
• Use of a full range of motion of the joints, and the ability to perform fine motor movements with the hands
• Ability to perform repetitive tasks such as stooping, bending, twisting, reaching and occasionally kneeling and squatting
• Good physical health and the ability to safely give and receive massages without risk of physical injury; students should consult a doctor to determine whether giving or receiving massages might be harmful to their health in any way
• Ability to respond in an emotionally controlled, professional, and ethical manner at all times and in varied patient care and educational situations
• Major medical health insurance is recommended for the length of the program; student insurance information is available through the CLC Health Center
• Willingness to give massages to (and receive massages from) people of different ages, body types, genders, sexual orientations, and personalities
• Prospective students are strongly encouraged to receive at least one massage from a licensed massage therapist; they are also strongly encouraged to make an appointment at the CLC Student Massage Clinic. (See www.clcillinois.edu/programs/massage for details.)

Note: The courses associated with the Massage Therapy Program are typically offered at the Southlake (Vernon Hills) Campus.

Gainful Employment Information:
www.clcillinois.edu/gemas

For more information on recommended courses or program specific advising, please contact department chair Joana Pabedinskas at (847) 543-2029 or the Biological and Health Sciences Division at (847) 543-2042.
MEDICAL ASSISTING

Biological and Health Sciences Division
Room B213, (847) 543-2042
www.clcillinois.edu/programs/moa

Degree: Associate in Applied Science, Medical Assisting
Plan 21MD

The goal of the Medical Assisting Program is to prepare competent entry level medical assistants in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains. The program trains students to work as Medical Assistants in a variety of settings. Medical Assistants provide routine administrative and clinical tasks to keep the offices of physicians, chiropractors, and other health professionals running smoothly. The tasks vary by office and specialty area. In smaller offices, Medical Assistants are usually generalists, providing both administrative and clinical support. In larger practices, Medical Assistants often specialize in certain areas. Administrative duties include tasks such as scheduling and receiving patients, preparing and maintaining medical records, handling telephone calls and written correspondence, medical transcription, submitting insurance claims, and maintaining practice finances. Clinical duties may include asepsis and infection control, taking patient histories and vital signs, performing first aid and CPR, preparing patients for procedures, performing electrocardiograms (ECGs), assisting the physician with examinations and treatments, performing suture removal, collecting and processing specimens, performing selected lab and diagnostic tests, administering medications (injections), and drawing blood (venipuncture).

Students interested in Medical Assisting should have a sincere desire to work with patients directly in an outpatient setting, and a sincere interest in wanting to help people maintain and improve their health.

Students are required to complete a background check and urine drug screen. Results of these screenings could affect program completion and future employment.

ACCREDITATION AND CERTIFICATION

The certified Medical Assisting program at the College of Lake County in Waukegan, Illinois, is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Medical Assisting Education Review Board (MAERB).

Commission on Accreditation of Allied Health Education Programs
25400 U.S. Highway 19 North, Suite 158
Clearwater, FL 33763
(727) 210-2350

Graduates are eligible to sit for the AAMA Certification Examination, where, upon passing the examination, the individual earns the Certified Medical Assistant (CMA) credential.

PROGRAM ENTRANCE REQUIREMENTS

- Attend a Medical Assisting program Information Session within 2 years of program enrollment.
- Apply to the college.
- Submit transcripts to the Records Office at Grayslake Campus: high school or equivalent, any college courses completed (or degree). Complete credential evaluation form for college transcript - available in the Office of Admissions.
- Demonstrate College Reading and Writing Readiness and Basic Algebra Readiness (see pages 390-391) or seek advisor assistance
- Meet Prerequisites: BIO 111 or BIO 244 and BIO 245 or equivalent transfer course with a grade of C or higher.
- Must be at least 18 years old by start of program.
- CLC cumulative G.P.A. is 2.0 or above.

It is recommended that students meet with an advisor to create a plan. Interested students may take HIT 111, HIT 119, PBT 110, and PBT 115 and MOA 115 prior to entering the program.

Upon completion of above program requirements students can enroll in MOA 111 on a first come, first served basis.

Continued on next page.
NEW COHORTS BEGIN IN THE FALL AND SPRING.

Courses are offered in the fall (daytime) and spring (evening). Interested students may take HIT 111, HIT 119, MOA 115, PBT 110 and PBT 115 prior to taking MOA 111. Preference is given to residents of CLC’s district, or a community college district which does not offer a Medical Assisting program and is a member of the CAREER consortium. Students who live outside of CLC’s district but are eligible for in-district tuition because they are employed by a district employer are NOT considered residents of the district for purposes of selection into the program.

Students must earn a minimum grade of “C” in all MOA, HIT, PBT, and BIO courses listed below to continue in and graduate from any of the certificate or degree programs (including the Healthcare Office Assistant.) In addition, students must maintain a CLC GPA of 2.0 or higher.

Students should seek the advice of the MOA faculty for course scheduling every semester.

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>16-20</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 111</td>
<td>Human Form and Function or Anatomy and Physiology I and Biology I</td>
</tr>
<tr>
<td>BIO 244</td>
<td>Anatomy and Physiology II</td>
</tr>
<tr>
<td>BIO 245</td>
<td>4-8</td>
</tr>
<tr>
<td>CMM 111</td>
<td>Communication Skills or Introduction to Computers</td>
</tr>
<tr>
<td>CMM 121</td>
<td>Fundamentals of Speech or Medical Terminology</td>
</tr>
<tr>
<td>CMM 123</td>
<td>Dynamics of Small Group Discussion or General Education Elective</td>
</tr>
<tr>
<td>CMM 128</td>
<td>Interviewing Practices or Medical Assisting Elective</td>
</tr>
<tr>
<td></td>
<td>General Education Elective (select from page 265-266)</td>
</tr>
<tr>
<td></td>
<td>Humanities or Fine Arts Elective</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND SEMESTER</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIT 111</td>
<td>Medical Terminology</td>
</tr>
<tr>
<td>HIT 119</td>
<td>Pharmacology</td>
</tr>
<tr>
<td>MOA 111</td>
<td>Clinical Medical Assisting I</td>
</tr>
<tr>
<td>MOA 112</td>
<td>Basic Medical Office and Billing Procedures</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>THIRD SEMESTER</th>
<th>17</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOA 115</td>
<td>Insurance Coding for Medical Assistants</td>
</tr>
<tr>
<td>MOA 211</td>
<td>Medical Assisting Elective</td>
</tr>
<tr>
<td>PBT 110</td>
<td>Introduction to Medical Lab Technology</td>
</tr>
<tr>
<td>PBT 115</td>
<td>Phlebotomy Techniques</td>
</tr>
<tr>
<td>PSY 121</td>
<td>General Education Elective (select from page 265-266)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FOURTH SEMESTER</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOA 115</td>
<td>Medical Assisting Elective</td>
</tr>
<tr>
<td>AOS 112</td>
<td>Computer Basics/Software Application or Introduction to Computers</td>
</tr>
<tr>
<td>CIT 120</td>
<td>Introduction to Computers</td>
</tr>
<tr>
<td>CIT 111</td>
<td>Comprehensive Spreadsheets or Medical Records</td>
</tr>
<tr>
<td>CIT 112</td>
<td>Comprehensive Database or Medical Science</td>
</tr>
<tr>
<td>CIT 119</td>
<td>Introduction to Office Software</td>
</tr>
<tr>
<td>ENG 121</td>
<td>English Composition I or Technical Composition I</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MEDICAL ASSISTING ELECTIVES</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOS 119</td>
<td>Records Management</td>
</tr>
<tr>
<td>AOS 214</td>
<td>Administrative Office Procedures</td>
</tr>
<tr>
<td>BUS 115</td>
<td>Elements of Supervision</td>
</tr>
<tr>
<td>HIT 113</td>
<td>Ethical and Legal Aspects of Medical Records</td>
</tr>
<tr>
<td>HIT 215</td>
<td>Medical Science</td>
</tr>
<tr>
<td>HWP 240</td>
<td>Contemporary Health Issues</td>
</tr>
<tr>
<td>NUR 110</td>
<td>Nurse Assisting</td>
</tr>
<tr>
<td>PBT 116</td>
<td>Clinical Phlebotomy</td>
</tr>
<tr>
<td>PDS 121</td>
<td>Self Empowerment</td>
</tr>
<tr>
<td>PED 228</td>
<td>First Aid/CPR</td>
</tr>
<tr>
<td>PSY 220</td>
<td>Lifespan Development</td>
</tr>
</tbody>
</table>

Total Hours for A.A.S. Degree: 60-64

Gainful Employment Information: www.clcillinois.edu/gemoa

WELLNESS AND HEALTH SCIENCES PROGRAMS
**TECHNICAL STANDARDS**

Students in the College of Lake County’s Medical Assisting Program must demonstrate the ability to perform or learn to perform the following essential skills:

- motor skills sufficient to perform record filing and data input tasks and be able to utilize various computer hardware and software in accomplishing operational functions related to medical assisting activities
- have full range of motion of joints, fine motor movements of the hands, ability to perform repetitive tasks and the ability to stoop, bend, twist, reach and occasionally kneel and squat
- lift and carry objects weighting up to 50 pounds
- push or pull a wheelchair, cart or gurney
- have adequate hearing which permits the individual to communicate in a rational and coherent manner with others in the English language
- examine closely images or other forms of output created by diagnostic equipment; must have color vision; must have good visual acuity for client assessment, medical checking, assisting in medical procedures, and for documentation
- demonstrate critical thinking/cognitive skills needed for problem solving and effective performance of standard medical assisting functions
- adapt effectively to environments with high stress in learning situations
- stand and walk 4 to 8 or more hours per clinical session
- acquire and apply information from classroom instruction, professional practice, independent learning and team projects
- synthesize information regarding healthcare data for formal, verbal and/or written, presentation to healthcare professionals
- follow job related logical thought processes to make judgments
- take initiative and work independently yet recognize self limitations
- demonstrate prolonged concentration skills
- cope in an appropriate manner to common job related stressful situations
- protect the confidentiality and security of health information
- meet the ethical standards of the profession.

Upon entrance, students must be able to perform the essential functions of the curriculum and meet the standards described herein for the program.

**Note:** This program is based at the Lakeshore (Waukegan) Campus. However, non-MOA courses may be offered only at the Grayslake Campus.

For more information on recommended courses or program specific advising, contact the Biological and Health Sciences division at (847) 543-2042.
MEDICAL BILLING SPECIALIST (Certificate) Plan 21HN

Medical billers play a critical role in the financial aspects of a physician’s practice. They report the patient’s diagnosis and the services rendered to that patient using special medical codes. These codes are included on the bills submitted to insurance companies, managed care plans, and Medicare. Medical billers need to have extensive knowledge of medical terminology, coding, and insurance procedures. Medical billers are employed by physicians’ offices, clinics, and billing services.

Medical billing is not a limited enrollment program. Day and evening classes are available.

All of the courses may be applied to the Health Information Technology associate degree program if the student desires to progress in the future to become a Registered Health Information Technician (RHIT).

A student must earn a grade of “C or better” in all HIT and BIO courses.

**FIRST SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIT 111</td>
<td>Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 111+</td>
<td>Human Form and Function</td>
<td>3</td>
</tr>
<tr>
<td>BIO 244+</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO 245</td>
<td>Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>HIT 171</td>
<td>Insurance Procedures for the Medical Office</td>
<td>2</td>
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</tbody>
</table>

**SECOND SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOS 112</td>
<td>Computer Basics/Software Applications</td>
<td>3</td>
</tr>
<tr>
<td>CIT 119</td>
<td>Introduction to Office Software</td>
<td>3</td>
</tr>
<tr>
<td>CIT 120</td>
<td>Introduction to Computers</td>
<td>3</td>
</tr>
<tr>
<td>HIT 117</td>
<td>Basic CPT Coding</td>
<td>3</td>
</tr>
<tr>
<td>HIT 119</td>
<td>Pharmacology</td>
<td>1</td>
</tr>
<tr>
<td>HIT 131</td>
<td>Basic ICD-10-CM Coding</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours for Certificate**

19-23

+ If BIO 124 has been taken, BIO 111/BIO 244 and BIO 245 are not needed.

Gainful Employment Information:

www.clcillinois.edu/gehit

For more information on recommended courses or program specific advising, contact faculty members Margaret Kyriakos at (847) 543-2879, Christina Melnytschuk at (847) 543-2886 or the Biological and Health Sciences division at (847) 543-2042.
MEDICAL IMAGING
Biological and Health Sciences Division
Room B213, (847) 543-2042
www.clcillinois.edu/programs/mim

Degree: Associate in Applied Science, Medical Imaging
Plan 21MI

This is a limited enrollment program. MIM courses are predominantly offered during the day with the exception of MIM 110. Students are required to meet the screening requirements in effect at the time of screening. Students who screen and are accepted into a limited enrollment program will be required to complete the curriculum that is in place at the time of entrance into the program. If students who screen are not granted admission, they must rescreen and satisfy all screening and curriculum requirements in place for a future program start.

SCREENING DEADLINE:
FIRST WEDNESDAY IN MARCH

The Medical Imaging Program prepares radiographers to work in medical facilities producing radiographic examinations which are interpreted by a radiologist or another medical specialist. Graduates of the program are qualified to take the national certification examination given by the American Registry of Radiologic Technologists. Graduates also meet the additional criteria required for Illinois licensure. The Medical Imaging program is nationally accredited by the Joint Review Committee on Education in Radiologic Technology: 20 North Wacker Drive, Suite 2850 Chicago, IL 60606-3182, (312) 704-5300, mail@jrcert.org.

Consistent with the Mission and goals of the College of Lake County, the Medical Imaging Program strives for excellence in preparing students for entry-level positions in the Medical Imaging profession. By maintaining high academic and clinical standards, graduates receive an Associate in Applied Science degree in Medical Imaging, become eligible for certification as Registered Radiologic Technologists, and attain clinical competency as entry-level professional radiographers.

Interested students may take MIM110 prior to being admitted to the program; however, the number of students that can be admitted to the MIM Program is limited. Therefore, a screening procedure is used to select the academically best qualified from those who request consideration. Preference is given to residents of CLC’s district, or a community college district which does not offer a Medical Imaging program and is a member of the CAREER consortium. Students who live outside of CLC’s district but are eligible for in-district tuition because they are employed by a district employer are NOT considered residents of the district for purposes of selection into the program.

Students enrolled in the program are required to undergo a background check and a urine drug screen prior to attending their clinical site (MIM 170). The results of the background check and drug screen may result in the student losing his/her seat in the program. The costs are borne by the student.

Students who are selected for the program are required to attend a mandatory orientation session. Failure to attend the mandatory orientation session may result in the student losing his/her seat in the program and the next qualified student on the list will be selected in his/her place.

TO BE CONSIDERED FOR ADMISSION TO THE MEDICAL IMAGING PROGRAM, STUDENTS MUST COMPLETE THE FOLLOWING SCREENING REQUIREMENTS PRIOR TO THE SCREENING DEADLINE.

Students must have submitted the following documents to the Welcome and One-Stop Center:

A. Student Information Form.
B. Official high school transcript with graduation date
OR
Official GED test scores
OR
Official college transcripts with graduation date and degree awarded
OR
Official foreign high school or college transcript evaluated by a NACES approved agency
C. Medical Imaging Program Request for Screening Form
D. If using courses from another college to meet prerequisites or degree requirements, submit an official transcript and a “Request for Evaluation of Prior College Transcripts” form to the Office of Registrar and Records.

Continued on next page.
MINIMUM SELECTION CRITERIA: 
STUDENT RECORDS MUST INDICATE 
THE FOLLOWING:

A. High school graduate or equivalent or 
high school senior in last term
B. College Reading and Writing Readiness 
and Basic Algebra Readiness
C. CLC Cumulative GPA is 2.0 or above
D. High school chemistry or physics with a 
lab (1 year, C or better)
OR
CHM 120 or CHM 121 or PHY 121 or an 
equivalent course (C or better)
E. BIO 123, BIO 161 or BIO 244 or an 
equivalent course (C or better)
F. High school algebra (2-years, C or better) 
OR
MTH 108 or an equivalent course 
(C or better)
OR
CLC Math Placement Test (indicating 
proficiency in MTH 108)
G. Applicants may take the NLN PAX exam 
one every 90 days (approximately three 
months). NLN PAX exam results that are less 
than 90 days between exams will not be 
considered. Scores used for screening into 
limited enrollment programs will be valid for 
only 3 years prior to a screening deadline.
Scores older than 3 years will 
not be considered for screening. Visit 
www.nlnonlinetesting.org for available 
test dates and times.
H. Must be eighteen (18) years of age by mid-
term of the fall semester following 
the screening deadline

Students must earn a minimum grade of “C” 
in each Imaging course to continue in and 
graduate from the program.

SUMMER SESSION ONE 
BIO 244 Anatomy and Physiology I 4
FALL SEMESTER ONE 
BIO 245 Anatomy and Physiology II 16
MIM 110 Introduction to Medical Imaging
MIM 111 Radiographic Anatomy 
and Positioning I
MIM 112 Principles of Radiographic 
Exposure
MIM 170 Introduction to the Clinical 
Education Center

SPRING SEMESTER ONE 
ENG 121 English Composition I 3
MIM 113 Radiographic Anatomy 
and Positioning II
MIM 114 Clinical Practice I
PSY 121 Introduction to Psychology
SUMMER SESSION TWO 
MIM 115 Clinical Practice II
MIM 116 Advanced Radiographic 
Procedures I

FALL SEMESTER TWO 
MIM 210 Technical Aspects of 
Patient Care
MIM 211 Imaging Equipment
MIM 212 Clinical Practice III
CMM 121 Fundamentals of Speech or 
CMM 123 Dynamics of Small Group 
Discussion or 
CMM 128 Interviewing Practices 3

SPRING SEMESTER TWO 
MIM 214 Advanced Topics in 
Radiography 6
MIM 215 Clinical Practice IV 3
MIM 216 Computer Imaging 2
CMM 127 Intercultural Communication 3
HUM 127 Critical Thinking 3
SUMMER SESSION THREE 
MIM 271 Clinical Practice V 3

Total Hours for A.A.S. Degree 72

PREGNANCY POLICY
During the first semester in the medical imaging program, all students will be taught 
basic radiation protection procedures. These instructions will include enough background 
so that students will be able to understand the possible biological risks of ionizing radiation 
to the embryo and fetus. In addition, any perspective student attending a Medical Imaging information session receives the NRC guide #8.29 and #8.13 with a brief overview.
3
Information is available through the United States Nuclear Regulatory Commission (NRC) 
guide #8.13 on instruction concerning prenatal radiation exposure. The NRC guide and forms are available in the appendices of the MIM handbook or at http://pbadupws.nrc.gov/docs/ML0037/ML003739505.pdf
1
A student may voluntarily inform the department chair and the radiation safety officer in writing using the form in the back of guide #8.13 should a pregnancy occur during 

the educational period. The pregnancy then 
becomes declared and a fetal dosimeter will 
be issued to the student to monitor radiation exposure. The signed NRC 8.13 form letter 
for declaring pregnancy will be placed in the 
student’s CLC file. A student may rescind 
pregnancy declaration at any time in writing 
to the department chair.
4
Once the student declares their pregnancy, 
the possible risks to the embryo and fetus 
shall be reviewed and the review documented 
and signed by the radiation safety officer and the student. The student will then be referred 

The student may choose one of the following pregnancy options:
1. The student may continue in the program 
without modification. In this case, two 
dosimeters will be used, one worn at 
the collar and on top of the apron during 
fluoroscopy and one worn on the belt and 
under the apron during fluoroscopy to 
record the student exposure and the fetal 

exposure respectively. Should recorded 
fetal exposure increase to 500 mrem or be 
received at a rate greater than 50 mrem 
per month at any time during pregnancy, 
the student will be required to take a leave 
of absence [see (b) below]. All course 
objectives and rotations shall be equivalent 
to any and all students enrolled in those 
particular courses. Adherence to radiation 
protection policies should eliminate almost 
all fetal exposure. Other counseling on 
protection procedures shall be done as needed.
2. A leave of absence may be taken until the 
birth of the child. All medical imaging grades 
will be recorded as withdrawn (W) if the 
student grades are acceptable at the time. 
This will permit the student to return with 
no penalty. Student acceptance to clinical 
facilities depends upon availability of sites.
3. The student may terminate the program. 
All medical imaging grades will be recorded 
as withdrawn (W) if the student grades are 
acceptable at the time.

For more information on recommended 
courses or program specific advising, contact 
the following faculty members or the Biological 
and Health Sciences division at (847) 543-2042:

Joe Dielman | Lynn Wiechert

ML0037/ML003739505.pdf

2019-2020 College of Lake County Catalog
Medical Imaging Technical Performance Standards

Medical Imaging is a practice of discipline with cognitive, sensory, affective, and psychomotor performance requirements. Based on those requirements [and the State of Illinois licensing requirements], a list of “Performance Standards” has been developed. Each standard has an example of an activity or activities that a potential student will be required to perform while enrolled in the radiography program. Please note that these examples are not all inclusive.

<table>
<thead>
<tr>
<th>Issue</th>
<th>Standard</th>
<th>Examples of Required Activities (Not all inclusive)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual</td>
<td>Visual ability sufficient for observation and assessment necessary in the operation of equipment and care of patients.</td>
<td>• Visualize x-ray collimator centering light and identify its center.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Observe the patient in order to assess the patient’s condition and/or needs from a distance of at least 20 feet.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Can see numbers, letters, calibrations, etc., of varying sizes located on equipment utilized by a radiographer.</td>
</tr>
<tr>
<td>Hearing</td>
<td>Auditory abilities sufficient to monitor and assess patient needs, and to provide a safe environment.</td>
<td>• Hear a patient talk in a normal tone from a distance of 20 feet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Hear monitor alarm, emergency signals, and cries for help.</td>
</tr>
<tr>
<td>Tactile</td>
<td>Tactile ability sufficient for patient assessment and operation of equipment and care of patients.</td>
<td>• Perform palpitation, tactile assessment and manipulation of body parts to ensure proper body placement and alignment.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Manipulate dials, buttons and switches of various sizes.</td>
</tr>
<tr>
<td>Mental</td>
<td>Mental ability sufficient for patient assessment and operation of equipment and care of patients.</td>
<td>• Be able to visually concentrate and focus attention, thoughts, and efforts on patients and equipment for varying periods of time.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Be able to respond to patients’ changing physical conditions.</td>
</tr>
<tr>
<td>Environmental Requirements</td>
<td>Physical health sufficient enough to be able to tolerate certain conditions present in the clinical setting.</td>
<td>• Be able to tolerate risks of discomforts in the clinical setting that require special safety precautions, additional safety education, and health risk monitoring (i.e., ionizing radiation), working with sharps, chemicals, and infectious disease. Students may be required to use protective clothing or gear such as masks, goggles, gloves, and lead aprons.</td>
</tr>
<tr>
<td>Communication</td>
<td>Communication abilities sufficient for interaction with others in verbal and written form.</td>
<td>• Effectively communicate to the patient in order to converse, instruct the patient, relieve anxiety, gain their cooperation during procedures, understand the patient when they are communicating symptoms of medical emergency.</td>
</tr>
</tbody>
</table>

Continued on next page.
## Wellness and Health Sciences Programs

<table>
<thead>
<tr>
<th>Issue</th>
<th>Standard</th>
<th>Examples of Required Activities (Not all inclusive)</th>
</tr>
</thead>
</table>
| **Mobility**                  | Physical abilities sufficient to move from room to room and maneuver in small spaces. | • Assist all patients, according to individual needs and abilities, in moving, turning, transferring from transportation devices to x-ray table, etc.  
• Be able to push, pull, and lift a minimum 50 lbs.  
• Push a stretcher and/or wheelchair without injury to self, patient, and others.  
• Push a mobile x-ray machines from one location to another, including turning corners, getting on and off an elevator, and manipulating it in a patient’s room or surgery. |
| **Motor Skills**              | Gross and fine motor abilities sufficient to provide safe effective patient care. | • Manually move the x-ray tube and position the tube at various angles and heights up to 7 feet.  
• Accurately draw up sterile contrast media and other solutions without contaminating the syringe and/or needles, etc.  
• Physically be able to administer emergency care including performing CPR.  
• Place cassettes (image receptors) in Bucky trays and properly manipulate all locks.  
• Be able to stand for periods as long as 2-hours wearing lead aprons and to walk a distance of 5 miles during a normal work day. |
| **Critical Thinking**         | Critical thinking ability sufficient for safe, clinical judgment.         | • Identify cause-effect relationships in clinical situations.  
• Evaluate radiographs to ascertain that they contain proper identification and are of diagnostic value.  
• Select exposure factors and accessory devices for all radiographic procedures with consideration of patient size, age, and extent of disease.  
• Assess patient’s condition and needs from a distance of at least 20 feet.  
• Initiate proper emergency care protocols, including CPR, based on assessment data. |
| **Interpersonal Behavioral and Social Skills** | Interpersonal abilities sufficient to interact with individuals, families, and groups from a variety of social, emotional, cultural, and intellectual backgrounds. | • Establish rapport with patients, families, and colleagues.  
• Allow mature, sensitive, and effective relationships with patients and fellow workers (interpersonal skills).  
• Tolerate physically taxing workload.  
• Function effectively under stress.  
• Adapt to changing environments (flexible schedules, emergency conditions).  
• Display compassion, professionalism, empathy, integrity, concern for others, and interest and motivation. |

Developed by St. Petersburg College Radiography Program: Permission granted to CLC.  
The American with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 and College of Lake County policy prohibits discrimination against individuals with disabilities. One of the purposes of this document is to ensure that students are aware of the requirements of this program and acknowledge their understanding of the program requirements. Students who have a disability and are in need of accommodations or modifications must contact the Office for Students with Disabilities (“OSD”). The OSD will determine whether or not any reasonable accommodations or modifications can be provided.
THE MEDICAL IMAGING PROGRAM SETS FORTH THE FOLLOWING GOALS AND OUTCOMES:

Goal 1: Students/graduates will use critical thinking and problem-solving skills.
  • Students will demonstrate critical thinking skills.
  • Students will have the ability to modify routine procedures.

Goal 2: Students/graduates will be clinically competent.
  • Students will evaluate radiographs for pathological processes.
  • Students will demonstrate proficiency in the surgical suite.

Goal 3: Students/graduates will be able to communicate.
  • Students will communicate effectively during fluoroscopy examinations.

Goal 4: Student/graduates will evaluate the importance of professional growth and development.
  • Students will assess their growth and development.
  • Students will demonstrate a basic understanding of advanced imaging modalities.

Goal 5: Program effectiveness measures.
  • Students/graduates will pass the certification examination.
  • Graduates will have the knowledge and skills expected by employers as entry technologists.
  • Graduates will obtain employment in radiography.
  • Graduates will complete the program within two years.
  • Graduates will indicate overall satisfaction.

For more information on recommended courses or program specific advising, contact faculty member Lynn Wiechert at (847) 543-2880 or the Biological and Health Sciences division at (847) 543-2042.
NURSING
Biological and Health Sciences Division
Room B213, (847) 543-2042
www.clcillinois.edu/programs/nur

Degree: Associate in Applied Science,
Nursing
Plan 21NC

This is a limited-enrollment program. Students are required to meet the screening requirements in effect at the time of screening. Students who screen and are accepted into a limited enrollment program will be required to complete the curriculum that is in place at the time of entrance into the program. If students who screen are not granted admission, they must rescreen and satisfy all screening and curriculum requirements in place for a future program start.

SCREENING DEADLINES:
FOURTH WEDNESDAY IN FEBRUARY AND THE FOURTH WEDNESDAY IN SEPTEMBER

The Associate Degree Program in Nursing prepares individuals to practice as registered nurses in entry level positions across health care settings. The program provides a balanced curriculum of general education and nursing courses. Clinical experience is provided at local hospitals and health care agencies.

The Nursing Program is accredited by the Accreditation Commission for Education in Nursing, 3343 Peachtree Rd., NE, Suite 850, Atlanta, GA 30326, (404) 975-5000, www.acenursing.com. It is approved by the State of Illinois Department of Financial and Professional Regulation, 320 West Washington Street, Springfield, IL 62786, www.IDFPR.com. After the completion of the program, the graduate is eligible to take the National Council Licensure Examination (NCLEX) for Registered Nursing and, if completed successfully, may apply to any state in the U.S. for licensure as a registered nurse.

Registered nurses must be licensed by a State Department of Financial and Professional Regulation. To become licensed, applicants must graduate from an approved nursing education program, pass an examination for registered nursing, pay the required fees and satisfy requirements of a Federal criminal history record check.

The number of students admitted into the nursing program is limited for both the fall and spring semester; therefore, a screening procedure is used to select the academically best qualified from those who request consideration. Preference will be given to residents of Community College District 532. Students who live outside of CLC’s district but are eligible for in-district tuition because they are employed by a district employer are NOT considered residents of the district for purposes of selection into the program.

TO BE CONSIDERED FOR ADMISSION TO THE NURSING PROGRAM, STUDENTS MUST COMPLETE THE FOLLOWING SCREENING REQUIREMENTS PRIOR TO THE SCREENING DEADLINE.

Students must have submitted the following documents to the Welcome and One-Stop Center:

A. Student Information Form
B. Official high school transcript with graduation date
   OR
   Official GED test scores
   OR
   Official college transcripts with graduation date and degree awarded
   OR
   Official foreign high school or college transcript evaluated by a NACES approved agency
C. Nursing Program Request for Screening Form once screening requirements and prerequisites are completed.
D. If using courses from another college to meet prerequisites or degree requirements, submit an official transcript and a “Request for Evaluation of Prior College Transcripts” form to the Office of Registrar and Records.
MINIMUM SELECTION CRITERIA:
STUDENT RECORDS MUST INDICATE THE FOLLOWING:

A. College Reading and Writing Readiness and Basic Algebra Readiness
B. CLC Cumulative GPA is 2.0 or above
C. CHM 120 or an equivalent course (C or better)
D. BIO 123 or an equivalent course (C or better)
E. BIO 244 or an equivalent course (C or better)
F. NLN PAX with minimum acceptable RN percentile rank scores of 50 in the verbal, math, and science sections, and a composite RN percentile rank of 60 (within 3 years prior to the screening deadline)
G. Certified Nurse Assistant (CNA) on the Illinois Healthcare Worker Registry or Illinois Licensed Practical Nurse (LPN) if applicable
H. Must be at least eighteen (18) years of age at the start of the program
I. Attendance at a Nursing Program Information Session (within 2 years of screening deadline)

* If BIO 244 AND BIO 246 (or equivalent) are completed at another accredited college with a grade of “C” or better, BIO 123 will not be required.

Please note that MTH 102 or equivalent is a prerequisite for BIO 123 and CHM 120.

Note: Applicants may take the NLN PAX exam once every 90 days (approximately three months). NLN PAX exam results that are less than 90 days between exams will not be considered. Scores used for screening into the nursing program will be valid for only 3 years prior to a screening deadline. Scores older than 3 years will not be considered for screening. Visit www.nlnonlinetesting.org for available test dates and times.

Students who are selected for the program are required to undergo a background check and a urine drug screen. The results of the background check and drug screen may result in the student losing their seat in the program.

Students who are selected for the program are required to attend a mandatory orientation session. Failure to attend the mandatory orientation session may result in the student losing their seat in the program.

To complete an A.A.S., students are strongly encouraged to meet with a Student Development Counselor or advisor to identify coursework that will meet degree requirements.

For completion of the A.A.S. degree in Nursing, Nursing program. Nursing faculty may make changes to program policies which must also be followed.

A student must maintain at least a grade of “C” in each nursing course to continue in and graduate from the program.

Requirements of the ADN program, must be completed with a grade of “C” or better (counted in total hours toward A.A.S. degree)

REQUIREMENTS
BIO 123 Principles of Biology or
BIO 161 General Biology I 4
BIO 244 Anatomy and Physiology I 4
CHM 120 Chemical Concepts or
CHM 121 General Chemistry I 4-5

FIRST SEMESTER
BIO 246 Microbiology 4

SECOND SEMESTER
BIO 245 Anatomy and Physiology II 4
NUR 133 Foundational Concepts of Nursing Practice 8
PSY 121 Introduction to Psychology 3

THIRD SEMESTER
ENG 121 English Composition I 3
NUR 134 Medical Surgical Nursing 9
PSY 220 Lifespan Development 3

FOURTH SEMESTER
CMM 121 Fundamentals of Speech or
CMM 123 Dynamics of Small Group Discussion or
CMM 128 Interviewing Practices 3
NUR 232 Mental Health Nursing 3
NUR 233 Family-Centered Nursing Care 6

FIFTH SEMESTER
ANT 221 Cultural Anthropology or
ANT 228 Cross-Cultural Relationships or
CMM 127 Intercultural Communication 3
NUR 234 Complex Medical, Surgical and Leadership Nursing 9

Total Hours for A.A.S. Degree 73-74

Humanities and Fine Arts Electives:
Select one course from the following selections:
Architecture (ARC 228), Art, Humanities, Music, Theatre, Chinese, English (except ENG 120, 121, 122, 123, 124 and 126), Dance, Arabic, French, German, Italian, Japanese, Philosophy, Russian, Sign Language, Spanish

Courses used to fulfill the nursing program screening requirements may not be used as a general elective, with the exception of NUR110.

For more information on recommended courses or program specific advising, contact the nursing education office at (847) 543-2043:
Mary Buckner | Willa Harrison
Becky Hawarany | Barbara Hunt | Dunia Iordan
Deb Krachtus | Cindy MacDonald
Lucia MacDonald | Carmella Mikol
Janet Racina | Mary Scheffler
Heide Wakefield-Thorne | Peggy Welch

Continued on next page.
### Nursing Technical Performance Standards

Nursing is a practice discipline with cognitive, sensory, affective, and psychomotor performance requirements. Based on those requirements and [the State of Illinois licensing requirements], a list of “Performance Standards” has been developed. Each standard has an example of an activity or activities that a potential student will be required to perform while enrolled in the nursing program.

<table>
<thead>
<tr>
<th>Issue</th>
<th>Standard</th>
<th>Examples of Required Activities (Not all inclusive)</th>
</tr>
</thead>
</table>
| Visual       | Visual ability for observation and assessment necessary in the operation of equipment and care of patients. | • Ability to observe subtle changes in patients such as skin color intensity, color coded supplies and abnormal skin conditions.  
• Ability to view various equipment settings such as patient monitors, infusion pumps, syringes with minute calibrations and Intravenous and medication labels.  
• Ability to view computer records necessary for patient care.  
• Ability to perform procedures using hand-to-eye-coordination.  
• Ability to read medication administration records in paper or electronic format. |
| Hearing      | Auditory abilities sufficient to monitor and assess patient needs, and to provide a safe environment. | • Ability to hear and verbally respond to patient questions and directions from instructors, students, and staff, in person and/or over the phone.  
• Ability to listen to breath and heart sounds while assessing vital signs including BP, pulse, and respiration rate.  
• Ability to hear equipment monitors such as IV pumps, bed alarms and heart monitors.  
• Ability to hear patient call lights.  
• Ability to hear faint body sounds (heart sounds, bowel sounds) and assess placement of tubes.  
• Ability to hear in situations where masks are required such as surgery or isolation rooms. |
| Tactile      | Tactile ability sufficient for patient assessment and treatment and operation of equipment | • Ability to perform the required techniques using patient equipment such as probes, sensors, pumps, bed controls, monitors, and computers.  
• Ability to perform palpation of pulses in a variety of locations on the body.  
• Ability to palpate the body surface during physical assessment.  
• Ability to sense changes in body temperature by touch. |
| Mental       | Mental ability sufficient for patient assessment and treatment and operation of equipment and care of patients. | • Ability to visually concentrate and focus attention, thoughts, and efforts on patients and equipment for varying periods of time.  
• Ability to respond to patients’ changing physical conditions  
• Ability to function in rapidly changing and high stress situations and environments.  
• Ability to respond in a calm manner during an emergency situation. |
### Environmental Requirements

**Standard**: Physical health sufficient enough to be able to tolerate certain conditions present in the clinical setting.

#### Examples of Required Activities (Not all inclusive)
- Ability to tolerate risks or discomforts in the clinical setting that require special safety precautions, additional safety education, health risk monitoring, working with sharps, chemicals, and infectious disease. Students may be required to use protective clothing or gear such as masks, goggles, gloves.

### Communication

**Standard**: Communication abilities sufficient for interaction with others in verbal and written form.

#### Examples of Required Activities (Not all inclusive)
- Ability to effectively communicate to the patients in order to assess, instruct, relieve anxiety, converse, gain their cooperation during procedures, provide care and treatments, dispense medications, and understand the patients when they are communicating symptoms of a medical emergency.
- Ability to obtain information, explain treatment procedures, initiate health education training, and describe patient situations.
- Ability to perceive non-verbal communications.
- Ability to document following ethical and legal guidelines.
- Ability to read the patient’s medical history and/or medical consult.
- Ability to document own actions and patient responses as indicated.
- Ability to collaborate with other members of the health care team verbally, on the phone or in writing.
- Ability to accurately report a patient’s condition to others verbally, on the phone or in writing.

### Mobility

**Standard**: Physical abilities sufficient to move from room to room and maneuver in small spaces.

#### Examples of Required Activities (Not all inclusive)
- Ability to assist all patients in turning, moving in bed, transferring, and ambulating according to individual needs and abilities.
- Ability to move in confined spaces.
- Ability to stand and walk for prolonged periods of time.
- Ability to squat, bend, and stoop.
- Ability to push, pull, and lift 50 lbs.
- Ability to push a wheelchair, cart, bed, or equipment without injury to self, patient, or others.
- Ability to reach above the shoulders to assess and maintain IV fluids or bedside monitors.

### Motor Skills

**Standard**: Gross and fine motor abilities sufficient to provide safe effective patient care.

#### Examples of Required Activities (Not all inclusive)
- Physically be able to administer emergency care including performing CPR.
- Ability to execute the small muscle hand and finger movements required to safely perform nursing procedures such as medication administration, intravenous therapy, dressing changes, and tube or catheter insertion and removal.
- Ability to grasp, twist and manipulate small objects such as IV tubing, syringes, droppers, and medication packaging.

Continued on next page.
## Wellness and Health Sciences Programs

### Critical Thinking

**Standard**

Critical thinking ability sufficient for safe clinical judgment.

**Examples of Required Activities (Not all inclusive)**

- Ability to recognize cause-effect relationships in clinical situations.
- Ability to develop and implement nursing diagnoses and patient care plans.
- Ability to assess subtle changes in a patient’s condition and respond appropriately.
- Ability to evaluate patient information such as assessment data, vital signs, or laboratory values and respond appropriately.
- Ability to safely administer medications and understand the actions and potential reactions.
- Ability to initiate proper emergency care protocols, including CPR, based on assessment data.

### Interpersonal Behavioral and Social Skills

**Standard**

Interpersonal abilities sufficient to interact with individuals, families, and groups from a variety of social, emotional, cultural, and intellectual backgrounds.

**Examples of Required Activities (Not all inclusive)**

- Ability to establish rapport with patients, families, and colleagues.
- Ability to allow mature, sensitive, and effective relationships with patients and fellow workers (interpersonal skills).
- Ability to tolerate a physically taxing and mentally challenging workload.
- Ability to function effectively under stress.
- Ability to adapt to changing environments (flexible schedules, emergency conditions, multiple interruptions, noise, distractions).
- Ability to display compassion, professionalism, empathy, integrity, concern for others, and interest and motivation.
- Ability to negotiate in situations of conflict and appropriately resolve the conflict.

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The American with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 and College of Lake County policy prohibits discrimination against individuals with disabilities. One of the purposes of this document is to ensure that students are aware of the requirements of this program and acknowledge their understanding of the program requirements. Students who have a disability and are in need of accommodations or modifications must contact the Office for Students with Disabilities (“OSD”). The OSD will determine whether or not any reasonable accommodations or modifications can be provided.
PERSONAL TRAINING
Biological and Health Sciences Division
Room B213, (847) 543-2042
www.clcillinois.edu/programs/hwp

PERSONAL TRAINING
(Certificate) Plan 21WB

The Personal Training certificate program is designed to provide students with the knowledge, skills, and experience necessary to seek out and maintain viable employment in the health and fitness industry. Curricula are aligned with the American College of Sports Medicine (ACSM) Certified Personal Trainer (CPT) Program. Students will also be encouraged to take the ACSM-CPT examination upon successful completion of program coursework.

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>12</th>
</tr>
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<tbody>
<tr>
<td>HWP 257</td>
<td>Health and Wellness Practicum I</td>
</tr>
<tr>
<td>HWP 260</td>
<td>Sport and Exercise Nutrition</td>
</tr>
<tr>
<td>PED 243</td>
<td>Theory and Practice of Fitness</td>
</tr>
<tr>
<td>PED 270</td>
<td>Biomechanics and Kinesiology</td>
</tr>
<tr>
<td>PED 271</td>
<td>Exercise Physiology</td>
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<table>
<thead>
<tr>
<th>SECOND SEMESTER</th>
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</tr>
</thead>
<tbody>
<tr>
<td>PED 272</td>
<td>Exercise Testing and Prescription</td>
</tr>
<tr>
<td>HWP 258</td>
<td>Health and Wellness Practicum II</td>
</tr>
<tr>
<td>PED 228</td>
<td>First Aid/CPR</td>
</tr>
<tr>
<td>HWP 240</td>
<td>Contemporary Health Issues</td>
</tr>
<tr>
<td>BIO 111</td>
<td>Human Form and Function or</td>
</tr>
<tr>
<td>BIO 244*</td>
<td>Anatomy and Physiology I</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>THIRD SEMESTER</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 245*</td>
<td>Anatomy and Physiology II</td>
</tr>
</tbody>
</table>

* These are preferred courses for students planning to transfer to a 4 year institution.

Total Hours for Certificate: 25-29

Gainful Employment Information:
www.clcillinois.edu/gehwp

For more information on recommended courses or program specific advising, please contact department chair Joana Pabedinskas at (847) 543-2029 or the Biological and Health Sciences Division at (847) 543-2042.
DEGREES/CERTIFICATES

PHLEBOTOMY TECHNICIAN
Biological and Health Sciences Division
Room B213, (847) 543-2042
www.clcillinois.edu/programs/pbt

PHLEBOTOMY TECHNICIAN
(Certificate) Plan 21MP

This certificate prepares students for entry level competencies as phlebotomists in hospitals, clinics, blood banks, and other health care settings. Students will develop skills in performing phlebotomy procedures during on-campus training followed by a clinical practicum during which students spend eight hours a day, five days a week for three weeks (120 hours) at a clinical site during the daytime shift.

This program is approved by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS): 5600 N. River Road, Suite 720, Rosemont, IL 60018-5119, web: www.naacls.org; phone (773) 714-8880; fax: (773) 714-8886; e-mail: info@naacls.org.

Graduates of this program are eligible for registry by nationally recognized certifying agencies. A high school diploma (or equivalent) is required to take the certification exam.

This is not a limited enrollment program, however, seats fill quickly. Day and evening options are available.

ACADEMIC PROGRAM ENTRANCE REQUIREMENTS

• Demonstrate College Reading and Writing Readiness and Basic Algebra Readiness prior to enrolling in PBT 110
• If a student has a CLC GPA, it must be 2.0 or higher
• Be at least 18 years old
• Attend an information session (within 2 years)
• High school graduate; GED or equivalent; or associate degree or higher
• Completion of a fingerprinting background check for the IDPH Health Care Worker Registry - http://dept.clcillinois.edu/nur/DisclosureAndAuthorizationForm.pdf
• Proof of immunization required - http://dept.clcillinois.edu/hea/requirementshealthcareprograms.pdf

NON-ACADEMIC PROGRAM ENTRANCE REQUIREMENTS

Because of inherent requirements of the profession, the following minimum abilities, i.e. essential functions, are expected of the student:

• Psychomotor skills (eye-hand coordination and finger dexterity) sufficient for safe and successful practice of phlebotomy
• Visual acuity (normal or corrected vision) sufficient for safe and successful practice of phlebotomy
• Adequate English verbal and written communication skills to safely and successfully interact with peers, supervisors and other members of the health care team

Students must earn a minimum grade of “C” in each Phlebotomy course to be able to continue in and graduate from the program.

FIRST SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>PBT 110</td>
<td>Introduction to Medical Laboratory Technology</td>
<td>2</td>
</tr>
<tr>
<td>PBT 115</td>
<td>Phlebotomy Techniques</td>
<td>2</td>
</tr>
<tr>
<td>PBT 116*</td>
<td>Phlebotomy Clinical</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Hours for Certificate 6

* To be eligible to enroll in PBT 116:
  • Earn a grade of “C” or better in PBT 110 and PBT 115
  • Hold current Healthcare Provider CPR from American Heart Association
  • Have an overall CLC GPA of 2.0 or higher
  • Provide proof that all immunizations required to satisfy the phlebotomy health requirements are completed
  • Complete a 10 panel urine drug screening with normal negative results (test date must be less than 12 months old)
  • Show as Eligible on the IDPH Health Care Worker Registry based upon the results of a FEE_APP fingerprinting background check
  • Have permission of the department chair

For instructions on how to complete the above requirements, visit www.clcillinois.edu/programs/pbt/getting-started

Note: This program is abased at the Lakeshore (Waukegan) Campus.

For more information on recommended courses or program specific advising, contact faculty member Angela Norwood or the Biological and Health Sciences division at (847) 543-2042.
### DEGREES/CERTIFICATES

#### DEGREES/CERTIFICATES

**PRE-DENTISTRY**  
Biological and Health Sciences Division  
Room B213, (847) 543-2042  
www.clcillinois.edu/programs/dnt

**Degree:** Associate in Arts  
Plan 13AB

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37. All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

**FIRST SEMESTER**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENG 121</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>CHM 121*</td>
<td>General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>MTH 145</td>
<td>Calculus I or</td>
<td></td>
</tr>
<tr>
<td>MTH 222</td>
<td>Business Statistics</td>
<td>4-5</td>
</tr>
<tr>
<td>PSY 121</td>
<td>Introduction to Psychology or</td>
<td></td>
</tr>
<tr>
<td></td>
<td>other Social Science Elective</td>
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**SECOND SEMESTER**

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<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIO 161*</td>
<td>General Biology</td>
<td>4</td>
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<tr>
<td>CHM 123*</td>
<td>General Chemistry II</td>
<td>5</td>
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<tr>
<td>ENG 122</td>
<td>English Composition II</td>
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<tr>
<td></td>
<td>Humanities Elective</td>
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### THIRD SEMESTER

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<tr>
<td>ANT 221</td>
<td>Cultural Anthropology or</td>
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<tr>
<td></td>
<td>other Social Science Elective</td>
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<tr>
<td>BIO 162*</td>
<td>General Biology II</td>
<td>4</td>
</tr>
<tr>
<td>CHM 222*</td>
<td>Organic Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>PHY 121*</td>
<td>General Physics I</td>
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### FOURTH SEMESTER

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<tr>
<td>CHM 223*</td>
<td>Organic Chemistry II or</td>
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<td>PHY 122*</td>
<td>General Physics II</td>
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<tr>
<td>PHI 125</td>
<td>Introduction to Ethics or</td>
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<td></td>
<td>other Humanities Elective</td>
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<tr>
<td>CMM 121</td>
<td>Fundamentals of Speech</td>
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<tr>
<td>SOC 121</td>
<td>Introduction to Sociology or</td>
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<td></td>
<td>other Social Science Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Fine Arts Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours for A.A. Degree**

| Total Hours | 64-65 |

* Some transfer institutions may accept sequential courses (I and II) only if both courses are taken. Check with transfer institution.

For more information on recommended courses or program specific advising, contact the following faculty members or the Biological and Health Sciences division at (847) 543-2042:

Mary Jacobs | Cynthia Trombino

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**WELLNESS AND HEALTH SCIENCES PROGRAMS**
### PRE-MEDICINE

Biological and Health Sciences Division  
Room B213, (847) 543-2042  
www.clcillinois.edu/programs/med

**Degree:** Associate in Arts  
**Plan 13AB**

The following courses are **recommended** for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are **strongly encouraged** to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37. All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

### FIRST SEMESTER  
14-15

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>BIO 161*</td>
<td>General Biology</td>
<td>4</td>
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<tr>
<td>ENG 121</td>
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<td>MTH 145</td>
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<td>MTH 222</td>
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<td>PSY 121</td>
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### SECOND SEMESTER  
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<td>English Composition II or</td>
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<td>Technical Communications</td>
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<td>HUM 121</td>
<td>Humanities: Ancient Times to the</td>
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<tr>
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<td>Middle Ages or</td>
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<td>Fine Arts Elective</td>
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### FOURTH SEMESTER  
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<td>Cultural Anthropology or</td>
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<td>other Social Science Elective</td>
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<td>CHM 222*</td>
<td>Organic Chemistry I</td>
<td>5</td>
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<td>CMM 121</td>
<td>Fundamentals of Speech</td>
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<tr>
<td>PHY 122*</td>
<td>General Physics II</td>
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**Total Hours for A.A. Degree**  
64-65

* Some transfer institutions may accept sequential courses (I and II) **only** if both courses are taken. Check with transfer institution.

For more information on recommended courses or program specific advising, contact faculty member Lakshmi Gollapudi at (847) 543-2324 or the Biological and Health Sciences Division at (847) 543-2042.
PRE-OCCUPATIONAL THERAPY

Biological and Health Sciences Division
Room B213, (847) 543-2042
www.clcillinois.edu/programs/occ

Degree: Associate in Arts
Plan 13AB

Occupational Therapists are licensed health care practitioners who work with patients to improve their ability to perform tasks in living, school, and/or work environments. They help people across the lifespan to do things they want and need to do through the therapeutic use of daily activities. Occupational Therapists assist patients to perform all types of activities, from using a computer, to implementing interventions to help children with disabilities participate fully in school and social situations, to other activities such as caring for daily needs (e.g. dressing, cooking, and eating). The goal is to help patients have independent, productive, and satisfying lives. For each patient, Occupational Therapists conduct an individualized evaluation, create a customized intervention to improve the person’s ability to perform daily activities and reach goals, and conduct outcome evaluations to ensure that goals are being met and/or learn if changes are needed to the plan.

Students who intend to complete an AA degree at the College of Lake County and transfer to a pre-professional program at a four-year college or university should become familiar with the requirements of the institution to which they plan to transfer very early in their studies.

To complete the Pre-Occupational Therapy transfer degree students should complete the requirements for the Associate in Arts degree and choose area of concentration electives only after consulting with a the department chair.

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students and students are also strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 and courses noted with a + sign in the list below to meet graduation requirements. A grade of C or better is required for all English course requirements.

**FIRST SEMESTER**
- ENG 121 English Composition I
- PSY 121 Introduction to Psychology
- BIO 161* General Biology I
- HUM 127 Critical Thinking or other Humanities Elective
- HWP 240 Contemporary Health Issues

**SECOND SEMESTER**
- ENG 122 English Composition II or Advanced Composition:
  Scientific and Technical Communications
- PSY 220 Lifespan Development
- BIO 244* Anatomy and Physiology I
- ANT 121 Introduction to Anthropology or other Social Science Elective
- PED 270 Biomechanics and Kinesiology

**THIRD SEMESTER**
- CMM 121 Fundamentals of Speech
- PSY 223 Abnormal Psychology
- BIO 245* Anatomy and Physiology II
- PHI 125+ Introduction to Ethics or other Humanities Elective (see page 220 for list)
- PED 271 Exercise Physiology

**FOURTH SEMESTER**
- MTH 222 Business Statistics
- HUM 126+ Introduction to the Performing Arts or other Fine Arts Elective (see page 220 for list)
- CHM 121 General Chemistry I or other Physical Science Elective
- HIT 111 Medical Terminology

**OTHER AREA OF CONCENTRATION ELECTIVES:**
- PED 243 Theory and Practice of Fitness
- PED 221 Introduction to Physical Education
- PED 228 First Aid/CPR
- BIO 162* General Biology II

**Total Hours for A.A. Degree**

63

* Some transfer institutions may accept sequential courses (I and II) only if both courses are taken. Check with transfer institution.

For more information on recommended courses or program specific advising, please contact department chair Joana Pabedinskas at (847) 543-2029 or the Biological and Health Sciences Division at (847) 543-2042.
### PRE-PHARMACY

**Biological and Health Sciences Division**  
Room B213, (847) 543-2042  
www.clcillinois.edu/programs/phr

**Degree:** Associate in Arts  
**Plan 13AB**

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

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<tr>
<th>FIRST SEMESTER</th>
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<tr>
<td>BIO 161</td>
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<td>General Chemistry</td>
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<td>ENG 121</td>
<td>English Composition I</td>
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<td>Introduction to Psychology</td>
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<tr>
<td>BIO 162</td>
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<td>English Composition II</td>
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<td>Calculus I</td>
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<tr>
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<td>CMM 121</td>
<td>Fundamentals of Speech</td>
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<tbody>
<tr>
<td>PHY 121</td>
<td>General Physics I</td>
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<tr>
<td>BIO 244</td>
<td>Anatomy and Physiology I</td>
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<td>CHM 222</td>
<td>Organic Chemistry I</td>
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<td>ECO 221</td>
<td>Principles of Macroeconomics</td>
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<td>CHM 223</td>
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<td>PHY 122</td>
<td>General Physics II</td>
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<td>Humanities Elective</td>
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<tr>
<td>Fine Arts Elective</td>
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**Total Hours for A.A. Degree**  **78**

*Some transfer institutions may accept sequential courses (I and II) only if both courses are taken. Check with transfer institution.*

For more information on recommended courses or program specific advising, contact Tara Simmons at (847) 543-2309 or the Biological and Health Sciences Division at (847) 543-2042.
**PRE-PHYSICAL THERAPY**

Biological and Health Sciences Division
Room B213, (847) 543-2042
www.clcillinois.edu/programs/ppt

**Degree: Associate in Science Plan 11AB**

Physical Therapists are licensed health care practitioners who assist patients to reduce pain and improve or restore mobility. They can teach patients how to prevent or manage their condition(s) so that they may achieve long term health and wellness benefits. Physical Therapists examine each patient and develop a plan, using treatment techniques to promote the ability to move, reduce pain, restore function, and prevent disability. They also work with individuals to prevent the loss of mobility before it occurs by developing fitness- and wellness-oriented programs for more active lifestyles.

Students who intend to complete an AS degree at the College of Lake County and transfer to a pre-professional program at a four-year college or university should become familiar with the requirements of the institution to which they plan to transfer very early in their studies.

To complete the Pre-Physical Therapy transfer degree students should complete the requirements for the Associate in Science degree and choose area of concentration electives only after consulting with the department chair.

The following courses are **recommended** for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are also **strongly encouraged** to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 and a course indicated with a + sign in the list below to meet graduation requirements. A grade of C or better is required for all English course requirements.

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**FIRST SEMESTER**

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tr>
<td>ENG 121</td>
<td>English Composition I</td>
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<tr>
<td>PSY 121</td>
<td>Introduction to Psychology</td>
<td>3</td>
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<tr>
<td>BIO 161*</td>
<td>General Biology</td>
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<tr>
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<td>Calculus I and Analytic Geometry</td>
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**SECOND SEMESTER**

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<td>English Composition II or I</td>
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<td>ENG 126</td>
<td>Advanced Composition: Scientific and Technical Communications</td>
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<td>HUM 127</td>
<td>Critical Thinking or other Humanities Elective</td>
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<td>Anatomy &amp; Physiology I</td>
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**THIRD SEMESTER**

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<td>CMM 121</td>
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<td>BIO 245*</td>
<td>Anatomy and Physiology II</td>
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**FOURTH SEMESTER**

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<td>ANT 121</td>
<td>Introduction to Anthropology or other Social Science Elective</td>
<td>3</td>
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<td>HUM 126+</td>
<td>Introduction to the Performing Arts or other Fine Arts Elective (see page 220 for list)</td>
<td>3</td>
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<tr>
<td>CHM 123*</td>
<td>General Chemistry II</td>
<td>5</td>
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<tr>
<td>PSY 220</td>
<td>Lifespan Development</td>
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<td>PED 271</td>
<td>Exercise Physiology</td>
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**OTHER AREA OF CONCENTRATION ELECTIVES:**

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<tr>
<td>PED 270</td>
<td>Biomechanics and Kinesiology</td>
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<td>Contemporary Health Issues</td>
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<td>PED 243</td>
<td>Theory and Practice of Fitness</td>
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<td>PED 221</td>
<td>Introduction to Physical Education</td>
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<td>PED 228</td>
<td>First Aid/CPR</td>
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<td>HIT 111</td>
<td>Medical Terminology</td>
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<td>BIO 162*</td>
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<td>PHY 122*</td>
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<tr>
<td>PSY 223</td>
<td>Abnormal Psychology</td>
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**Total Hours for A.S. Degree**

Total: 63

* Some transfer institutions may accept sequential courses (I and II) only if both courses are taken. Check with transfer institution.

For more information on recommended courses or program specific advising, please contact department chair Joana Pabedinskas at (847) 543-2029 or the Biological and Health Sciences Division at (847) 543-2042.
**PRE-VETERINARY MEDICINE**

Biological and Health Sciences Division  
Room B213, (847) 543-2042  
www.clcillinois.edu/programs/vet

*Degree:* Associate in Arts  
*Plan 13AB*

The following courses are recommended for students who have not decided upon a specific four-year college or university. Once a transfer school is selected, students are strongly encouraged to meet with a Student Development Counselor or advisor to determine courses at CLC which will also meet the transfer requirements. To complete any transfer degree, students should select from the general education requirements outlined on page 37.

All course prerequisites must be met. Additionally, students are required to select one course from the International/Multicultural list on page 37 to meet graduation requirements. A grade of C or better is required for all English course requirements.

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<table>
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**SECOND SEMESTER**  
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**THIRD SEMESTER**  
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<th>Course</th>
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**FOURTH SEMESTER**  
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<td>CMM 121</td>
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<td>CHM 125</td>
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</table>

**Total Hours for A.A. Degree**  
64

*Some transfer institutions may accept sequential courses (I and II) only if both courses are taken. Check with transfer institution.

1 Meets CLC AA requirements but is not required by U of I College of Veterinary Medicine.

2 Strongly recommended. Required by University of Wisconsin School of Veterinary Medicine. Not required by U of I College of Veterinary Medicine.

3 For application to a Veterinary Program without completing a Bachelor of Science degree, students should complete either CHM 222 and CHM 223 or CHM 125 and a biochemistry course (not offered at CLC).

For more information on recommended courses or program specific advising, contact faculty member Branko Jablanovic at (847) 543-2883 or the Biological and Health Sciences Division at (847) 543-2042.
This is a limited-enrollment, day only program. Students are required to meet the screening requirements in effect at the time of screening. Students who screen and are accepted into a limited enrollment program will be required to complete the curriculum that is in place at the time of entrance into the program. If students who screen are not granted admission, they must rescreen and satisfy all screening and curriculum requirements in place for a future program start.

SCREENING DEADLINE:
FIRST WEDNESDAY IN MARCH

Surgical technologists are allied health professionals who are integral to the surgical team. They assist in the decontamination and set up of the operating rooms for each procedure, organize the necessary surgical and sterile supplies and equipment, and maintain the quality, safety, and efficiency of the sterile field throughout the surgery.

Surgical technologists might also be involved in transporting patients to and from the operating room, assisting to position patients on the operating table, observing vital signs and checking charts.

During the surgery, technologists help the surgical team with sterile gowns and gloves, they anticipate the needs of the surgeon by watching and understanding the steps and progression of the surgical procedure. They are accountable for the care of surgical instrumentation and equipment before, during, and at the completion of surgical cases.

Graduates of the certificate program are qualified to take the Certified Surgical Technologist (CST) Examination given by the National Board of Surgical Technology and Surgical Assisting (NBSTSA). To complete an A.A.S., in addition to completion of the certificate program, students must complete the required general education courses. All course prerequisites must be met.

Upon acceptance into the program, students are required to undergo a background check and a urine drug screen. The results of the background check and drug screen may result in the student losing his/her seat in the program. The costs are borne by the student.

TO BE CONSIDERED FOR ADMISSION TO THE SURGICAL TECHNOLOGY PROGRAM, STUDENTS MUST COMPLETE THE FOLLOWING SCREENING REQUIREMENTS PRIOR TO THE SCREENING DEADLINE.

Students must have submitted the following documents to the Welcome and One-Stop Center:

A. Student Information Form
B. Official high school transcript with graduation date
   OR Official GED test scores
   OR Official college transcripts with graduation date and degree awarded
   OR Official foreign high school or college transcript evaluated by a NACES approved agency
C. Surgical Technology Program Request for Screening Form
D. If using courses from another college to meet prerequisites or degree requirements, submit an official transcript and a “Request for Evaluation of Prior College Transcripts” form to the Office of Registrar and Records.

MINIMUM SELECTION CRITERIA: STUDENT RECORDS MUST INDICATE THE FOLLOWING:

A. High school graduate or equivalent or high school senior in last term
B. College Reading and Writing Readiness and Basic Algebra Readiness
C. CLC Cumulative GPA is 2.0 or above
D. NLN PAX with minimum acceptable RN percentile rank scores of 40 in the verbal and 40 in the math sections, and a composite percentile of 40 (within 3 years prior to the screening deadline)
E. Attendance at a Surgical Technology Information Session (within two years of the screening deadline)

Continued on next page.
DEGREES/CERTIFICATES

PROGRAM ACCREDITATION
The Association of Surgical Technologists (AST) requires that surgical technologists who are applying for certification for the first time must have completed their education in a program that is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). The CLC surgical technology program is fully accredited by CAAHEP, 25400 U.S. Highway 19 North, Suite 158, Clearwater, FL 33763.

PHYSICAL AND EMOTIONAL ABILITY PERFORMANCE STANDARDS
Students must meet the physical and emotional ability standards listed below to satisfactorily perform in the Surgical Technology program. Students must:

- have full range of motion of joints, fine motor movements of the hands, ability to perform repetitive tasks and the ability to stoop, bend, twist, reach and occasionally kneel and squat.
- have the ability to lift and carry objects weighing up to 50 pounds.
- be able to push or pull a wheelchair, cart, or gurney.
- have adequate hearing which permits the individual to communicate in a rational and coherent manner with others in the English language.
- have the ability to examine closely images or other forms of output created by diagnostic equipment; must have color vision; must have good visual acuity for client assessment, checking medications, loading fine sutures, distinguishing and recognizing fine variations and differences in surgical instruments.
- adapt effectively to high stress environments to insure client safety.
- respond in an emotionally controlled manner in learning situations.
- be able to stand and walk 8 or more hours per clinical session.

The number of students that may be admitted to clinical education courses is limited for any given term; therefore, a screening procedure is used to select the academically best qualified from among those who request consideration.

Preference is given to residents of Community College District 532 (CLC) and residents of other community college districts with which CLC has a Joint Education Agreement.

Students who live outside of CLC’s district but are eligible for in-district tuition because they are employed by a district employer are NOT considered residents of the district for purposes of selection into the program.

Note: Applicants may take the NLN PAX exam once every 90 days (approximately three months). NLN PAX exam results that are less than 90 days between exams will not be considered. Scores used for screening into limited enrollment programs will be valid for only 3 years prior to a screening deadline. Scores older than 3 years will not be considered for screening. Visit www.nlnonlinetesting.org for available test dates and times or visit the Surgical Technology web page at www.clcillinois.edu/programs/srg.

All required materials must be submitted to the Records Office by the screening deadlines.

If space is available in the program after the initial screening deadline, qualified students will be accepted in an order based on academic qualifications.

Students must maintain a minimum grade of “C” in each of the courses listed below to continue in and graduate from the program. In addition, students must maintain a CLC GPA of 2.0 or higher.

Please contact the SRG department chair Soheila Kayoud at (847) 543-2776 if you have questions regarding your ability to meet these standards.
## SURGICAL TECHNOLOGY

*Degree: Associate in Applied Science, Surgical Technology*

### Plan 21SA

<table>
<thead>
<tr>
<th>REQUIREMENT</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 123</td>
<td>Principles of Biology 4</td>
</tr>
</tbody>
</table>

### FIRST SEMESTER 13

| BIO 111  | Human Form and Function or Anatomy and Physiology I 4 |
| BI 244   |  |
| CMM 123  | Dynamics of Small Group Discussion or Interviewing Practices 3 |
| CMM 128  |  |
| ENG 120  | Technical Composition I or English Composition I 3 |
| ENG 122  |  |
| HUM 127  | Critical Thinking 3 |

### SECOND SEMESTER 8-14

| BIO 245  | Anatomy and Physiology II (only if completing the BIO 244/245 sequence) 4 |
| BI 244   |  |
| HIT 111  | Medical Terminology 3 |
| PSY 121  | Introduction to Psychology 3 |
| SRG 119  | Essentials of Microbiology or Microbiology 2-4 |
| BI 246   |  |

### THIRD SEMESTER 13

| SRG 110  | Introduction to Surgical Technology 6 |
| SRG 111  | Principles of Practice and Introduction to Surgical Procedures 7 |

### FOURTH SEMESTER 15

| SRG 112  | Surgical Procedures I 6 |
| SRG 113  | Surgical Procedures II 6 |
| SRG 117  | Surgical Pharmacology 3 |

### FIFTH SEMESTER 6

| SRG 114  | Surgical Procedures III 3 |
| SRG 115  | Surgical Technology Internship 3 |

### SIXTH SEMESTER 3

| SRG 118  | Advanced Surgical Procedures 3 |

Total Hours for A.A.S. Degree 62-68

## SURGICAL TECHNOLOGY (Certificate) Plan 21SD

This certificate will give students the knowledge and skills necessary for employment as entry level scrub surgical technologists and to gain higher level employment in area hospitals and surgical supply businesses. Graduates of this program will be qualified to sit for the National Examination for the Certified Surgical Technologist (CST) Examination given by the National Board of Surgical Technology and Surgical Assisting (NBSTSA).

### REQUIREMENT 0-8

| BIO 123  | Principles of Biology 4 |
| BI 244   | Anatomy and Physiology I 4 |

### FIRST SEMESTER 7

| BIO 111  | Human Form and Function or Anatomy and Physiology II 4 |
| BI 245   |  |
| HIT 111  | Medical Terminology 3 |
| PSY 121  | Introduction to Psychology 3 |
| SRG 119  | Essentials of Microbiology or Microbiology 2-4 |
| BI 246   |  |

### SECOND SEMESTER 17-19

| SRG 112  | Surgical Procedures I 6 |
| SRG 113  | Surgical Procedures II 6 |
| SRG 117  | Surgical Pharmacology 3 |
| SRG 119  | Essentials of Microbiology or Microbiology 2-4 |
| BI 246   |  |

### THIRD SEMESTER 15

| SRG 112  | Surgical Procedures I 6 |
| SRG 113  | Surgical Procedures II 6 |
| SRG 117  | Surgical Pharmacology 3 |

### FOURTH SEMESTER 6

| SRG 114  | Surgical Procedures III 3 |
| SRG 115  | Surgical Technology Internship 3 |

Total Hours for Certificate 43-49

Gainful Employment Information: www.clcillinois.edu/gesrg

For more information on recommended courses or program specific advising, contact faculty member Soheila Kayoud at (847) 543-2776 or the Biological and Health Sciences division at (847) 543-2042.
YOGA
Communication Arts, Humanities and Fine Arts Division, Room B213, (847) 543-2040
www.clcillinois.edu/programs/dnc

Yoga Teacher (Certificate) Plan 23DA

This 14 credit hour certificate program prepares students to teach yoga to adults in yoga studios, health clubs, park districts, or any other venue where a yoga teacher is needed. The CLC Yoga Teacher certificate includes instruction in the technique, pedagogy, history, culture and theory involved in yoga studies and practice. This program is intended to fulfill the requirements of the Yoga Alliance 200-Hour Yoga Teacher Training Registration. Yoga Alliance is the nationally recognized organization that regulates yoga teaching standards. Students who complete their yoga teacher training at CLC may register online with Yoga Alliance. The Yoga Instructor Certificate enables instructors to teach Level I and Level II Hatha Yoga to groups and individuals. A grade of C or better in all courses is required to meet standards.

<table>
<thead>
<tr>
<th>FIRST SEMESTER</th>
<th>7</th>
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</thead>
<tbody>
<tr>
<td>DNC 124</td>
<td>Beginning Yoga*</td>
</tr>
<tr>
<td>PED 270</td>
<td>Biomechanics and Kinesiology**</td>
</tr>
<tr>
<td>PED 160</td>
<td>Yoga I* or HWP 160</td>
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</table>

<table>
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<tr>
<th>SECOND SEMESTER</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>DNC 224</td>
<td>Intermediate Yoga*</td>
</tr>
<tr>
<td>DNC 160</td>
<td>Teaching Methods I***</td>
</tr>
<tr>
<td>DNC 129</td>
<td>Dance Practicum I ##</td>
</tr>
</tbody>
</table>

Total Hours for Certificate 14

* Offered every semester
** Offered Fall and Spring only
*** Offered Spring only
# Capstone Course-Taken in final semester

For more information on recommended courses or program specific advising, contact the following faculty or the Communication Arts, Humanities and Fine Arts Division at (847) 543-2040.

Valerie Alpert | Therese Crews

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DEGREES/CERTIFICATES

WELLNESS AND HEALTH SCIENCES PROGRAMS