

CITY COLLEGES OF CHICAGO

Academic Catalog

2018–2019



Richard J. Daley



Kennedy-King



Malcolm X



Olive-Harvey



Harold Washington



Harry S Truman



Wilbur Wright



CITY COLLEGES[®]
of CHICAGO

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For the convenience of readers, this Catalog is enabled with interactive bookmarks that navigate to tagged pages and sections when clicked. To utilize this function, open the Catalog in a PDF-compatible application such as Adobe Reader or Adobe Acrobat and the Bookmarks panel should open automatically.

TO LOG AN ISSUE OR ERROR ABOUT THE CATALOG, PLEASE EMAIL CATALOG@CCC.EDU

MISSION

City Colleges of Chicago (CCC) delivers exceptional learning opportunities and educational services for diverse student populations in Chicago.

We enhance knowledge, understanding, skills, collaboration, community service and life-long learning by providing a broad range of quality, affordable courses, programs, and services to prepare students for success in a technologically advanced and increasingly interdependent global society.

We work proactively to eliminate barriers to employment and to address and overcome casual factors underlying socio-economic disparities and inequities of access and graduation in higher education.

<http://www.ccc.edu/menu/pages/mission.aspx>

RICHARD J. DALEY COLLEGE

Richard J. Daley College provides high-quality education which leads to academic success, career development, and personal enrichment that fulfill diverse community needs.

<http://www.ccc.edu/colleges/daley/menu/Pages/Mission.aspx>

HAROLD WASHINGTON COLLEGE

Harold Washington College is a student-centered institution that empowers all members of its community through accessible and affordable academic advancement, career development and personal enrichment.

<http://www.ccc.edu/colleges/washington/menu/pages/mission.aspx>

KENNEDY-KING COLLEGE

Kennedy-King College is dedicated to providing high quality, comprehensive, accessible education and training opportunities that respond to changing community needs and enable individuals to reach their full potential and successfully compete in the global marketplace. Kennedy-King College is committed to improving student learning in all programs and services through an ongoing comprehensive assessment process.

<http://www.ccc.edu/colleges/kennedy/menu/Pages/Mission.aspx>

MALCOLM X COLLEGE

Malcolm X College, a learning and assessment-centered community college, empowers students of diverse backgrounds and abilities to achieve academic, career, and personal success.

<http://www.ccc.edu/colleges/malcolm-x/menu/pages/mission.aspx>

OLIVE-HARVEY COLLEGE

The mission of Olive-Harvey College is to provide high quality educational programs and support services. Olive-Harvey College is dedicated to student learning and academic and career success through instructional excellence and responsiveness to student, business and community needs. Our goal is to support students in the completion of an associate's degree in preparation for transfer to institutions of higher education and in preparation for immediate employment. Further, we support a wide array of excellent opportunities for life-long learning; career preparation, training, and advancement; and adult education including basic skills enhancement.

<http://www.ccc.edu/colleges/olive-harvey/menu/pages/mission.aspx>

HARRY S TRUMAN COLLEGE

Our Mission dedicates us to deliver high-quality, innovative, affordable and accessible educational opportunities and services that prepare students for a rapidly changing and diverse global economy.

<http://www.ccc.edu/colleges/truman/menu/pages/mission.aspx>

WILBUR WRIGHT COLLEGE

Wright College is a learning-centered, multi-campus institution of higher education offering students of diverse backgrounds, talents and abilities a quality education leading to baccalaureate transfer, career advancement and/or personal development.

<http://www.ccc.edu/colleges/wright/menu/pages/mission.aspx>

STUDENT SERVICES

Each college offers a broad range of services to support the achievement of students' academic, career, and personal goals, as well as referrals to external support agencies, as needed. Some of the many student services are listed below and on subsequent pages. More information, including contact and location information at each college, may be found at www.ccc.edu/student-services.

Services and Resources	Webpages
Academic Calendar	www.ccc.edu/calendar
Advising	www.ccc.edu/advising
Alumni	www.ccc.edu/alumni
Career Planning and Placement	www.ccc.edu/careerservices
Child Development Lab Schools	www.ccc.edu/childcare
Class Schedules	www.ccc.edu/classsschedules
Disability Access Centers	www.ccc.edu/dac
International Students	www.ccc.edu/internationalstudents
Online Course Options	www.ccc.edu/onlinelearning
Placement Tests and Resources	www.ccc.edu/testing
Registrar	www.ccc.edu/registrar
Student Government Association (SGA)	www.ccc.edu/sga
Textbook Rental	www.ccc.edu/bookstore
Transfer Resources	www.ccc.edu/transfer
Tutoring	www.ccc.edu/tutoring
Ventra U-Pass	www.ccc.edu/upass
Veterans Services	www.ccc.edu/veterans
Wellness Centers	www.ccc.edu/wellnesscenter

FINANCIAL AID AND TUITION

At City Colleges of Chicago, we believe your education is an investment, that will pay dividends throughout your lifetime. That's why we are dedicated to helping students get the assistance they may need to attend one of our seven colleges. The Financial Aid Offices at City Colleges of Chicago work closely with students and families to provide financial assistance in the form of grants, loans, and work-study from federal and state resources. The Financial Aid Office is your guide and resource to help you make college affordable. Please visit your respective college's Financial Aid Office for more information regarding the financial aid process.

Financial Services	Webpage
CAREER Agreement*	www.ccc.edu/chargeback
Financial Aid	www.ccc.edu/financialaid
Financial Obligation (Payment Arrangements)	www.ccc.edu/services/Pages/Pay-Tuition-and-Fees.aspx
Residency	www.ccc.edu/residency
Tuition	www.ccc.edu/tuition
Tuition Waivers	www.ccc.edu/services/Pages/Tuition-Waivers.aspx
Withdrawals and Refunds	www.ccc.edu/services/Pages/Tuition-Refund-Policy.aspx

*Cooperative agreement between Illinois community college districts for programs not offered by CCC

ACADEMIC CATALOG

Effective Fall 2014 term, all students are assigned an academic career, program, and plan upon enrolling (consistent with Focus Area and Pathway choices made by the student). Students are required to follow the academic program/plan requirements in the Academic Catalog in effect at the time of their enrollment, subject to CCC Academic Policy www.ccc.edu/policies.

ACADEMIC AND STUDENT POLICY MANUAL

All students at all times are subject to the current Academic and Student Policy Manual, unless a new board rule has superseded the text in the policy manual. The manual includes detailed policies related to student procedures and protocols including transfer policies, financial aid policies, grade designation, graduation, responsible computer use, and more. The complete Academic and Student Policy Manual can be found at www.ccc.edu/policies.

TRANSFER CENTERS

It's never too early to begin planning for transfer. City Colleges of Chicago Transfer Centers exist to help students plan for a seamless transition to four-year institutions. The Transfer Director at each college oversees an annual cycle of programs and services. At your Transfer Center you can:

- Find out about CCC's partnerships with four-year institutions
- Identify four-year institutions that might be a good fit
- Match your graduation plan with your transfer goals
- Obtain college application fee waivers (pending eligibility)
- Receive scholarship assistance during the transfer process

TRANSFER EVENTS AT CITY COLLEGES

- **Fall and Spring Transfer Fairs:** Over 100 colleges and universities come to City Colleges annually to recruit students. Students are encouraged to attend these fairs to plan for transfer.
- **College Recruitment Visits:** When school is in session, colleges and universities recruit students by making "table visits," Monday through Thursday at every City College.
- **The Transfer-mation Conference:** This District-wide event provides students with the opportunity to learn about career options, transferring with ease to colleges and universities and how personal goals can become a reality. Current students and alumni are invited to attend.
- **Transfer Scholars:** Eligible students can receive on-site admission, meet with selective enrollment admissions staff and get their financial aid packages up to one year prior to transferring.
- **College Success:** these classes include introductions to transferring for new students.

TRANSFER PARTNERSHIPS WITH CITY COLLEGES

Partnerships between City Colleges of Chicago and four-year institutions provide a smooth transition for CCC students into the college or university of their choice. The CCC Transfer Pages are continually updated with new transfer resources.

- **Star Partnerships:** CCC has partnered with colleges and universities across the state to provide continuing financial and transfer support for Star Scholarship recipients who participate in these partnerships.
- **Admission Partnerships:** Consider signing up for Dual Admission, Guaranteed Admission, and Dual Enrollment partnerships with local, outstanding universities.
- **Pathway Partnerships:** CCC has partnered with several universities in creating Pathway Partnerships. All students are put on a Pathway at CCC. Once you choose your destination college, using the Pathway Partnership document will show the classes preferred per major.
- **Transfer Guides:** Almost 50 colleges and universities have created Transfer Guides for CCC students to use when planning for transfer.

Illinois Articulation Initiative (IAI)

City Colleges participates in Illinois Articulation Initiative, or IAI, a comprehensive state-wide effort among more than 100 colleges and universities in Illinois to facilitate the transfer of general education credits. Advisors will direct students to take IAI general education courses to fulfill the general education requirements whenever possible, since transfer is guaranteed by so many Illinois colleges.

- Students who complete the AA or AS degree at CCC, and meet the admission requirements of an IAI-participating baccalaureate degree-granting institution to which they transfer, will have completed the lower-division general education requirements for an associate or baccalaureate degree in lieu of the receiving institution's general education requirements.
- Students who complete the IAI General Education Core Curriculum (GECC) at CCC fulfilling all of the GECC requirements with IAI approved General Education courses and transfer to participating institutions have the assurance that lower-division general education requirements for an associate or baccalaureate degree have been satisfied and the GECC will transfer.

MyCreditsTransfer Powered by Transferology

MyCreditsTransfer is a statewide initiative designed to facilitate transfer within Illinois using the nationally available tool, Transferology. Within Transferology students can find out how courses transfer between institutions, how courses satisfy degree requirements and the different majors institutions offer. City College students can create an account in Transferology and with the touch of a button can import all of their CCC courses, allowing students to see how they will transfer to colleges by major. City College advisors and students use this system every day to plan for transfer.

Reverse Transfer of Credit

If you transfer to another college or university before completing your degree at City Colleges of Chicago, you can still earn an associate degree through the Reverse Transfer of Credit. Students who transfer to a four-year college or university can transfer back college credits to satisfy degree requirements at CCC.

For more information on transfer resources, visit www.ccc.edu/transfer



FOR MORE INFO, VISIT WWW.CCC.EDU/DALEY

RICHARD J. DALEY COLLEGE

7500 South Pulaski Road, Chicago, Illinois 60652

College to Careers focus:

Advanced Manufacturing

Arturo Velasquez Institute

2800 South Western Avenue, Chicago, Illinois 60608



FOR MORE INFO, VISIT WWW.CCC.EDU/HWC

HAROLD WASHINGTON COLLEGE

30 East Lake Street, Chicago, Illinois 60601

College to Careers focus:

Business and Professional Services



FOR MORE INFO, VISIT WWW.CCC.EDU/KKC

KENNEDY-KING COLLEGE

6301 South Halsted Street, Chicago, Illinois 60621

College to Careers focus:

Culinary Arts and Hospitality
Construction Technology

Dawson Technical Institute

3901 South State Street, Chicago, Illinois 60609



FOR MORE INFO, VISIT WWW.CCC.EDU/MALCOLMX

MALCOLM X COLLEGE

1900 West Jackson Boulevard, Chicago, Illinois 60612

College to Careers focus:

Healthcare

West Side Learning Center

4624 West Madison Street, Chicago, Illinois 60644



FOR MORE INFO, VISIT WWW.CCC.EDU/OHC

OLIVE-HARVEY COLLEGE

10001 South Woodlawn Avenue, Chicago, Illinois 60628

College to Careers focus:

Transportation, Distribution, and Logistics

South Chicago Learning Center

3055 East 92nd Street, Chicago, Illinois 60617



FOR MORE INFO, VISIT WWW.CCC.EDU/TRUMAN

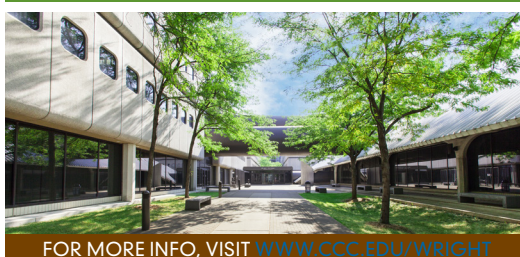
HARRY S TRUMAN COLLEGE

1145 West Wilson Avenue, Chicago, Illinois 60640

College to Careers focus:

Education

Human Sciences (Liberal Arts) and Natural Sciences



FOR MORE INFO, VISIT WWW.CCC.EDU/WRIGHT

WILBUR WRIGHT COLLEGE

4300 North Narragansett Avenue, Chicago, Illinois 60634

College to Careers focus:

Information Technology

Humboldt Park Vocational Education Center

1645 North California Avenue, Chicago, Illinois 60647

**Number of job openings projected per focus area over the next 10 years.*



A Hispanic Serving Institution, **Richard J. Daley College** responds to the changing needs of Chicago and its people by providing general education, career and technical, and adult education programs. Daley graduates transfer to colleges and universities all over Illinois or join the work force. Daley's main campus is located at 7500 S. Pulaski Road and its satellite

campus is Arturo Velasquez Institute located at 2800 S. Western Avenue in Chicago.

Daley College is City Colleges' Center of Excellence in Advanced Manufacturing and Engineering. Industry leaders work with Daley College faculty to help align curriculum with industry standards and ensure facilities provide the hands-on training needed to succeed on the job. Manufacturing classes are also available at Daley College's satellite campus Arturo Velasquez Institute.

Programs Offered by Richard J. Daley College*

Academic Program	Credential Offered	Found in
Associate in Arts (0210)	Associate in Arts	Degree Requirements
Associate in General Studies (0203)	Associate in General Studies	Degree Requirements
Associate in Science (0211)	Associate in Science	Degree Requirements
CNC Operations (0422)	Basic Certificate	Advanced Manufacturing
Computer Numeric Control (CNC) Machining (0725)	Advanced Certificate	Advanced Manufacturing
Computer Numeric Control Machining (0724)	Basic Certificate	Advanced Manufacturing
Factory Automation (0726)	Basic Certificate	Advanced Manufacturing
Factory Automation (0727)	Advanced Certificate	Advanced Manufacturing
Industrial Welding (0423)	Basic Certificate	Advanced Manufacturing
Manufacturing Technology (0770)	Associate in Applied Science	Advanced Manufacturing
Quality Assurance (0729)	Basic Certificate	Advanced Manufacturing
Safety for Process Technology (0412)	Basic Certificate	Advanced Manufacturing
Welding (0765)	Basic Certificate	Advanced Manufacturing
Communications Technology (0704)	Basic Certificate	Construction Technology
Communications Technology (0709)	Advanced Certificate	Construction Technology
Communications Technology (0750)	Associate in Applied Science	Construction Technology
Electrical Construction Technology (0703)	Basic Certificate	Construction Technology
Electrical Construction Technology (0721)	Advanced Certificate	Construction Technology
Electrical Construction Technology (0752)	Associate in Applied Science	Construction Technology
Child Development Pre-School Education (0277)	Basic Certificate	Education
Child Development Pre-School Education (0278)	Associate in Applied Science	Education
Child Development Pre-School Education (0282)	Advanced Certificate	Education
Criminal Justice Private Police Services (0319)	Advanced Certificate	Human Sciences (Liberal Arts)
Criminal Justice Private Police Services (0326)	Basic Certificate	Human Sciences (Liberal Arts)
Criminal Justice Public Police Services (0294)	Associate in Applied Science	Human Sciences (Liberal Arts)
Criminal Justice Public Police Services (0295)	Advanced Certificate	Human Sciences (Liberal Arts)
Criminal Justice Public Police Services (0296)	Basic Certificate	Human Sciences (Liberal Arts)
Unarmed Security Guard (0898)	Basic Certificate	Human Sciences (Liberal Arts)
Networking Systems & Technologies (0141)	Associate in Applied Science	Information Technology
Networking Systems & Technologies (0142)	Advanced Certificate	Information Technology
Networking Systems & Technologies (0143)	Basic Certificate	Information Technology
Web Development (0152)	Basic Certificate	Information Technology
Web Development (0155)	Advanced Certificate	Information Technology

Academic Program	Credential Offered	Found in
Web Development (0409)	Associate in Applied Science	Information Technology
Engineering (0100)	Associate in Engineering Science	Degree Requirements
Sustainable Urban Horticulture (0828)	Advanced Certificate	Natural Sciences

**only includes programs currently admitting new students*



Harold Washington College is a student-centered institution that empowers all members of its community through accessible and affordable academic advancement, career development and personal enrichment.

Harold Washington College is City Colleges' Center of Excellence in Business, Entrepreneurship and Professional Services, partnering with industry leaders to ensure the curriculum reflects employer demand, to provide internships, and give students the opportunity to interview for jobs in the field. The college also focuses on the fine, applied and performing arts, as well as transfer to four-year institutions as part of a robust liberal arts education.

Programs Offered by Harold Washington College*

Academic Program	Credential Offered	Found in
Associate in Arts (0210)	Associate in Arts	Degree Requirements
Associate in General Studies (0203)	Associate in General Studies	Degree Requirements
Associate in Science (0211)	Associate in Science	Degree Requirements
Accounting Clerk (0424)	Basic Certificate	Business & Professional Services
Architecture (0122)	Associate in Applied Science	Business & Professional Services
Architecture (0124)	Basic Certificate	Business & Professional Services
Art Studio (0216)	Associate in Fine Arts	Human Sciences (Liberal Arts)
Banking (0417)	Basic Certificate	Business & Professional Services
Child Development Pre-School Education (0278)	Associate in Applied Science	Education
Child Development Pre-School Education (0282)	Advanced Certificate	Education
Child Development Pre-School Education (0277)	Basic Certificate	Education
Child Development/Pre-School Education of Infants & Toddlers (0286)	Advanced Certificate	Education
CPA Preparation-Post Baccalaureate (0418)	Advanced Certificate	Business & Professional Services
Digital Marketing and Social Media (0426)	Advanced Certificate	Business & Professional Services
Digital Multimedia Design (0350)	Associate in Applied Science	Human Sciences (Liberal Arts)
Digital Multimedia Design: Interactive Design & Development (0351)	Advanced Certificate	Human Sciences (Liberal Arts)
Digital Multimedia Design: Interactive Design & Development (0354)	Basic Certificate	Human Sciences (Liberal Arts)
Engineering (0100)	Associate in Engineering Science	Degree Requirements
Human Resources (0419)	Basic Certificate	Business & Professional Services
Music Business (0093)	Basic Certificate	Human Sciences (Liberal Arts)
Music Education (0208)	Associate in Fine Arts	Human Sciences (Liberal Arts)
Music Performance (0205)	Associate in Fine Arts	Human Sciences (Liberal Arts)
Music Technology (0094)	Basic Certificate	Human Sciences (Liberal Arts)
Paralegal (0304)	Associate in Applied Science	Business & Professional Services

*only includes programs currently admitting new students



Kennedy-King College embodies the commitment to academic excellence and civic responsibility espoused by its namesakes, civil and human rights activists Robert F. Kennedy and Dr. Martin Luther King, Jr.

Kennedy-King is City Colleges' Center of Excellence in Culinary & Hospitality and in Construction Technology, working with industry experts to ensure students are prepared for careers in those fields. Culinary and hospitality courses are offered at Washburne Culinary & Hospitality Institute—where students receive hands-on training at restaurants serving the public, including Sikia, the Parrot Cage, and the Washburne Cafe—or they can take classes at the French Pastry School.

Dawson Technical Institute, located at 3901 S. State, offers career opportunities in construction technology at companies, such as ComEd and Peoples Gas, and through major trade unions representing workers in the field.

Programs Offered by Kennedy-King College*

Academic Program	Credential Offered	Found in
Associate in Arts (0210)	Associate in Arts	Degree Requirements
Associate in General Studies (0203)	Associate in General Studies	Degree Requirements
Associate in Science (0211)	Associate in Science	Degree Requirements
Addictions Studies (0344)	Associate in Applied Science	Human Sciences (Liberal Arts)
Addictions Studies (0343)	Advanced Certificate	Human Sciences (Liberal Arts)
Addictions Studies (0345)	Basic Certificate	Human Sciences (Liberal Arts)
Advanced Social Services - Addictions Studies (0410)	Associate in Applied Science	Human Sciences (Liberal Arts)
Advanced Social Services-Addictions Studies (0411)	Advanced Certificate	Human Sciences (Liberal Arts)
Air Conditioning & Domestic Refrigeration (0177)	Basic Certificate	Construction Technology
Air Conditioning & Heating (0178)	Basic Certificate	Construction Technology
Air Conditioning & Refrigeration (0117)	Associate in Applied Science	Construction Technology
Air Conditioning & Refrigeration (0118)	Advanced Certificate	Construction Technology
Air Conditioning & Commercial Refrigeration (0153)	Basic Certificate	Construction Technology
Alternative Fuel Vehicle Technology (0099)	Basic Certificate	Trans Distribution & Logistics
Auto Body Reconstruction Technology (0112)	Basic Certificate	Trans Distribution & Logistics
Auto Body Repainting Technology (0111)	Basic Certificate	Trans Distribution & Logistics
Auto Chassis Maintenance (0134)	Basic Certificate	Trans Distribution & Logistics
Auto Fuel Management Technology (0136)	Basic Certificate	Trans Distribution & Logistics
Automotive Maintenance (0128)	Basic Certificate	Trans Distribution & Logistics
Automotive Technology (0125)	Associate in Applied Science	Trans Distribution & Logistics
Automotive Technology: Track I (0130)	Advanced Certificate	Trans Distribution & Logistics
Baking and Pastry Arts (0365)	Associate in Applied Science	Culinary Arts & Hospitality
Baking and Pastry Arts (0366)	Advanced Certificate	Culinary Arts & Hospitality
Baking and Pastry Arts (0367)	Basic Certificate	Culinary Arts & Hospitality
Bricklayer (0760)	Basic Certificate	Construction Technology
Child Development Pre-School Education (0278)	Associate in Applied Science	Education
Child Development Pre-School Education (0282)	Advanced Certificate	Education
Child Development Pre-School Education (0277)	Basic Certificate	Education
Collision Technology (0133)	Advanced Certificate	Trans Distribution & Logistics
Combination Welder (0758)	Basic Certificate	Construction Technology
Concrete Masonry (0759)	Basic Certificate	Construction Technology

Academic Program	Credential Offered	Found in
Construction Carpentry (0775)	Basic Certificate	Construction Technology
Construction Management (0375)	Associate in Applied Science	Construction Technology
Criminal Justice Public Police Services (0294)	Associate in Applied Science	Human Sciences (Liberal Arts)
Criminal Justice Public Police Services (0295)	Advanced Certificate	Human Sciences (Liberal Arts)
Criminal Justice Public Police Services (0296)	Basic Certificate	Human Sciences (Liberal Arts)
Culinary Arts (0362)	Associate in Applied Science	Culinary Arts & Hospitality
Culinary Arts (0363)	Advanced Certificate	Culinary Arts & Hospitality
Culinary Arts (0364)	Basic Certificate	Culinary Arts & Hospitality
Gas Utility Worker (0749)	Advanced Certificate	Construction Technology
Hospitality Management (0735)	Associate in Applied Science	Culinary Arts & Hospitality
Hospitality Management (0740)	Advanced Certificate	Culinary Arts & Hospitality
Media Communications (0083)	Associate in Applied Science	Human Sciences (Liberal Arts)
Overhead Electrical Line Worker (0766)	Advanced Certificate	Construction Technology
Plumbing & Fire Protection (0753)	Basic Certificate	Construction Technology
Social Work Generalist (0313)	Associate in Applied Science	Human Sciences (Liberal Arts)
Visual Media Communications (0165)	Associate in Applied Science	Human Sciences (Liberal Arts)
Visual Media Communications (0166)	Advanced Certificate	Human Sciences (Liberal Arts)
Visual Media Communications: Page/Layout (0192)	Basic Certificate	Human Sciences (Liberal Arts)
Visual Media Communications: Web Page Design (0193)	Basic Certificate	Human Sciences (Liberal Arts)

**only includes programs currently admitting new students*



Malcolm X College is conveniently located near the Illinois Medical District and offers one of the largest selections of health sciences degrees in Cook County. In January 2016, Malcolm X College opened a brand new state-of-the-art School of Health Sciences, featuring a virtual hospital. It also houses the new City Colleges of Chicago School of Nursing.

Malcolm X College is City Colleges' Center of Excellence in Healthcare Education, preparing its students for careers in the healthcare field. The college offers a mix of classroom study and hands-on training at area healthcare facilities. Because many students who attend Malcolm X College also work, the college offers flexible schedules and "stackable" credits that allow students to continue and expand on their training in the future.

West Side Learning Center, MXC's satellite site, offers Adult Education classes as well as professional and Personal Development courses.

Programs Offered by Malcolm X College*

Academic Program	Credential Offered	Found in
Associate in Arts (0210)	Associate in Arts	Degree Requirements
Associate in General Studies (0203)	Associate in General Studies	Degree Requirements
Associate in Science (0211)	Associate in Science	Degree Requirements
BNA Fundamentals and Clinical (0801)	Basic Certificate	Healthcare
Child Development Pre-School Education (0278)	Associate in Applied Science	Education
Child Development Pre-School Education (0282)	Advanced Certificate	Education
Child Development Pre-School Education (0277)	Basic Certificate	Education
Community Health Care Worker (0718)	Basic Certificate	Healthcare
Dental Hygiene (0222)	Associate in Applied Science	Healthcare
Emergency Medical Technician/Basic (0252)	Basic Certificate	Healthcare
Emergency Medical Technician-II Paramedic (0263)	Associate in Applied Science	Healthcare
Emergency Medical Technician-II Paramedic (0265)	Advanced Certificate	Healthcare
Fire Science Management (0413)	Associate in Applied Science	Healthcare
Fire Service Operations/FES (0414)	Associate in Applied Science	Healthcare
Medical Assisting (0421)	Advanced Certificate	Healthcare
Medical Billing (0395)	Basic Certificate	Healthcare
Medical Coding (0394)	Advanced Certificate	Healthcare
Mortuary Science (0257)	Associate in Applied Science	Healthcare
Nursing (0239)	Associate in Applied Science	Healthcare
Patient Care Technician (0396)	Basic Certificate	Healthcare
Personal Fitness Trainer (0397)	Basic Certificate	Healthcare
Pharmacy Technology (0254)	Advanced Certificate	Healthcare
Phlebotomy (0219)	Basic Certificate	Healthcare
Physical Therapist Assistant (0406)	Associate in Applied Science	Healthcare
Practical Nursing (0240)	Advanced Certificate	Healthcare
Radiography (0246)	Associate in Applied Science	Healthcare
Respiratory Care (0234)	Associate in Applied Science	Healthcare
Sterile Processing/Clinical (0269)	Basic Certificate	Healthcare
Surgical Technology (0267)	Associate in Applied Science	Healthcare

Academic Program	Credential Offered	Found in
Web Development (0409)	Associate in Applied Science	Information Technology
Web Development (0155)	Advanced Certificate	Information Technology
Web Development (0152)	Basic Certificate	Information Technology

**only includes programs currently admitting new students*



Olive-Harvey College, on the city's far South Side, serves thousands of students annually in their pursuit of a certificate, degree, high school equivalency, or to learn English as a second language.

Olive-Harvey College is City Colleges' Center of Excellence in Transportation, Distribution and Logistics (TDL), one of the region's fastest growing industry segments. A TDL Center is currently under construction to produce the highly-skilled professionals needed to meet future industry demand.

South Chicago Learning Center, OHC's satellite site, offers classes leading to a High School Equivalency Certificate (GED), classes for English Language Learners (ELL), Citizenship classes, and a select number of college credit courses.

Programs Offered by Olive-Harvey College*

Academic Program	Credential Offered	Found in
Associate in Arts (0210)	Associate in Arts	Degree Requirements
Associate in General Studies (0203)	Associate in General Studies	Degree Requirements
Associate in Science (0211)	Associate in Science	Degree Requirements
Child Development Pre-School Education (0278)	Associate in Applied Science	Education
Child Development Pre-School Education (0282)	Advanced Certificate	Education
Child Development Pre-School Education (0277)	Basic Certificate	Education
Class C Driver Training (0405)	Basic Certificate	Trans Distribution & Logistics
Commercial Driver Training (0876)	Basic Certificate	Trans Distribution & Logistics
Commercial Passenger Driver Class B (0875)	Basic Certificate	Trans Distribution & Logistics
Criminal Justice Public Police Services (0294)	Associate in Applied Science	Human Sciences (Liberal Arts)
Criminal Justice Public Police Services (0295)	Advanced Certificate	Human Sciences (Liberal Arts)
Criminal Justice Public Police Services (0296)	Basic Certificate	Human Sciences (Liberal Arts)
Defensive Driving Attitudinal (0890)	Basic Certificate	Trans Distribution & Logistics
Forklift Operation & Safety (0848)	Basic Certificate	Trans Distribution & Logistics
Limousine Restricted Chauffeur Training (0889)	Basic Certificate	Trans Distribution & Logistics
Public Passenger Vehicle Training/Taxi (0715)	Basic Certificate	Trans Distribution & Logistics
Supply Chain Management & Logistics (0737)	Associate in Applied Science	Trans Distribution & Logistics
Supply Chain Management & Logistics (0738)	Advanced Certificate	Trans Distribution & Logistics
Supply Chain Management & Logistics (0739)	Basic Certificate	Trans Distribution & Logistics
Web Development (0409)	Associate in Applied Science	Information Technology
Web Development (0155)	Advanced Certificate	Information Technology
Web Development (0152)	Basic Certificate	Information Technology

*only includes programs currently admitting new students



reach their goals.

Harry S Truman College has been a vibrant and vital part of Chicago's Uptown neighborhood since 1976, delivering high-quality, innovative, affordable and accessible educational opportunities and services. Our faculty, staff and administration work to provide students with the support and tools necessary to

As City Colleges' Center of Excellence in Education, Human and Natural Sciences, students have the opportunity to become the best teachers by learning from the best teachers. Truman College offers a combination of certificates and associate degrees for those first entering the education profession as well as for professionals in need of continuing education.

Programs Offered by Harry S Truman College*

Academic Program	Credential Offered	Found in
Associate in Arts (0210)	Associate in Arts	Degree Requirements
Associate in General Studies (0203)	Associate in General Studies	Degree Requirements
Associate in Science (0211)	Associate in Science	Degree Requirements
Accounting (0002)	Basic Certificate	Business & Professional Services
Art Studio (0216)	Associate in Fine Arts	Human Sciences (Liberal Arts)
Automotive Technology (0125)	Associate in Applied Science	Trans Distribution & Logistics
Automotive Technology (0116)	Basic Certificate	Trans Distribution & Logistics
Automotive Technology: Track II (0130)	Advanced Certificate	Trans Distribution & Logistics
Bilingual Educator Endorsement (0428)	Basic Certificate	Education
Biotechnology (0215)	Associate in Applied Science	Natural Sciences
CAD Technology (0144)	Associate in Applied Science	Advanced Manufacturing
CAD Technology (0138)	Advanced Certificate	Advanced Manufacturing
CAD Technology (0139)	Basic Certificate	Advanced Manufacturing
Chemical Laboratory Technology (0137)	Associate in Applied Science	Natural Sciences
Child Development Pre-School Education (0278)	Associate in Applied Science	Education
Child Development Pre-School Education (0282)	Advanced Certificate	Education
Child Development Pre-School Education (0277)	Basic Certificate	Education
Child Development/Pre-School Education of Infants & Toddlers (0286)	Advanced Certificate	Education
Computer Information Systems (0012)	Basic Certificate	Information Technology
Cosmetology (0349)	Advanced Certificate	Human Sciences (Liberal Arts)
Cosmetology Teacher Training 1000 HR (0415)	Basic Certificate	Human Sciences (Liberal Arts)
Cosmetology Teacher Training 500 HR (0416)	Basic Certificate	Human Sciences (Liberal Arts)
Criminal Justice Public Police Services (0294)	Associate in Applied Science	Human Sciences (Liberal Arts)
Criminal Justice Public Police Services (0295)	Advanced Certificate	Human Sciences (Liberal Arts)
Criminal Justice Public Police Services (0296)	Basic Certificate	Human Sciences (Liberal Arts)
Engineering (0100)	Associate in Engineering Science	Degree Requirements
English as a Second Language (0427)	Basic Certificate	Education
Family Child Care Business (0831)	Basic Certificate	Education
Human Development & Family Studies (0391)	Associate in Applied Science	Human Sciences (Liberal Arts)
Human Development and Family Studies (0425)	Basic Certificate	Human Sciences (Liberal Arts)
Management/Marketing (0023)	Basic Certificate	Business & Professional Services
Networking Systems & Technologies (0141)	Associate in Applied Science	Information Technology

Academic Program	Credential Offered	Found in
Networking Systems & Technologies (0142)	Advanced Certificate	Information Technology
Networking Systems & Technologies (0143)	Basic Certificate	Information Technology
Web Development (0155)	Advanced Certificate	Information Technology
Web Development (0152)	Basic Certificate	Information Technology

**only includes programs currently admitting new students*



control at its satellite location, Wright College Humboldt Park. The college is easily recognized by the unique pyramid - designed by renowned Chicago architect, Bertrand Goldberg - on campus.

Named after a great American innovator of flight, **Wilbur Wright College** prepares students to soar to academic and personal success, whether their goal is to transfer to a four-year college or join the workforce. Signature programs include information technology, paralegal, and addiction studies, as well as computerized numerical

City College's Center of Excellence in Information Technology, Wilbur Wright College also offers high school equivalency and English as a Second Language courses, with its credit courses transferable to most four-year colleges and universities.

Programs Offered by Wilbur Wright College*

Academic Program	Credential Offered	Found in
Associate in Arts (0210)	Associate in Arts	Degree Requirements
Associate in General Studies (0203)	Associate in General Studies	Degree Requirements
Associate in Science (0211)	Associate in Science	Degree Requirements
Addictions Studies (0345)	Basic Certificate	Human Sciences (Liberal Arts)
Architectural CAD (0132)	Basic Certificate	Human Sciences (Liberal Arts)
Architecture (0122)	Associate in Applied Science	Business & Professional Services
Architecture (0124)	Basic Certificate	Business & Professional Services
Building Energy Technologies (0159)	Basic Certificate	Construction Technology
CNC Operations (0422)	Basic Certificate	Advanced Manufacturing
Computer Numeric Control Machining (0724)	Basic Certificate	Advanced Manufacturing
Criminal Justice Public Police Services (0294)	Associate in Applied Science	Human Sciences (Liberal Arts)
Criminal Justice Public Police Services (0295)	Advanced Certificate	Human Sciences (Liberal Arts)
Criminal Justice Public Police Services (0296)	Basic Certificate	Human Sciences (Liberal Arts)
Cybersecurity (0297)	Basic Certificate	Information Technology
Emergency Management (0355)	Associate in Applied Science	Human Sciences (Liberal Arts)
Emergency Preparedness (0358)	Basic Certificate	Human Sciences (Liberal Arts)
Engineering (0100)	Associate in Engineering Science	Degree Requirements
Environmental Technology (0160)	Associate in Applied Science	Natural Sciences
Environmental Technology (0161)	Basic Certificate	Natural Sciences
Gerontology Aide (0339)	Basic Certificate	Healthcare
Gerontology Specialist (0340)	Associate in Applied Science	Healthcare
Homeland Security (0356)	Basic Certificate	Human Sciences (Liberal Arts)
Incident Command (0357)	Basic Certificate	Human Sciences (Liberal Arts)
Library Technical Assistant (0303)	Associate in Applied Science	Business & Professional Services
Library Technical Assistant (0330)	Basic Certificate	Business & Professional Services
Music Performance (0205)	Associate in Fine Arts	Human Sciences (Liberal Arts)
Networking Systems & Technologies (0141)	Associate in Applied Science	Information Technology
Networking Systems & Technologies (0142)	Advanced Certificate	Information Technology
Networking Systems & Technologies (0143)	Basic Certificate	Information Technology
Nursing Home Administration (0341)	Basic Certificate	Healthcare
Occupational Therapy Assistant (0259)	Associate in Applied Science	Healthcare
Paralegal (0304)	Associate in Applied Science	Business & Professional Services

Academic Program	Credential Offered	Found in
Web Development (0409)	Associate in Applied Science	Information Technology
Web Development (0155)	Advanced Certificate	Information Technology
Web Development (0152)	Basic Certificate	Information Technology

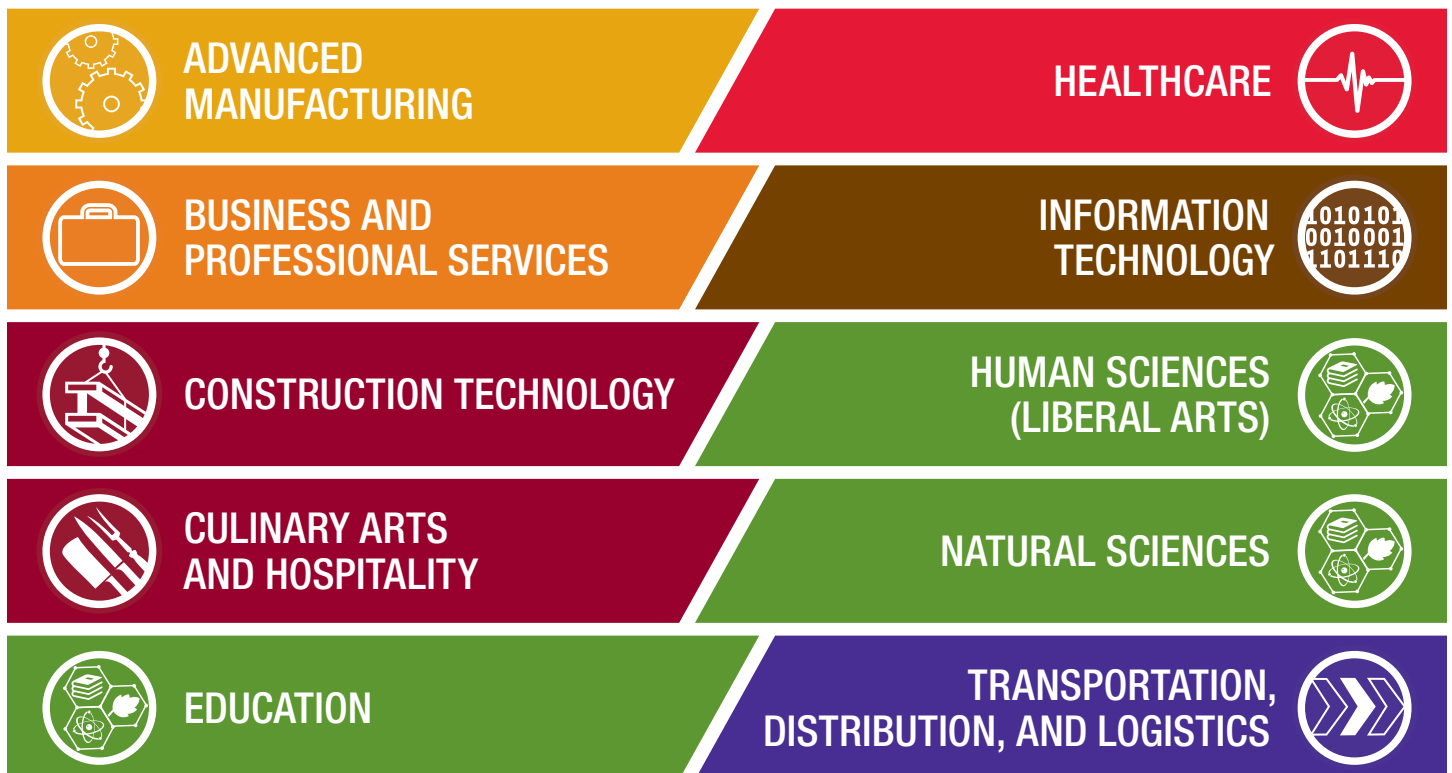
**only includes programs currently admitting new students*

KNOW WHAT YOU WANT

What are your career and life goals?

A degree or certificate from City Colleges of Chicago is your ticket to a rewarding career, either right after graduation, or after a successful transfer to a four-year college or university. We have the resources to get you there, but you have to make some choices about your path.

City Colleges of Chicago offers over 100 degree and certificate programs. That's a lot of choices! To narrow down your options, **1) choose one of our ten Focus Areas.** Your College Advisor can give you tools and ask you the right questions to help you make your decision. Once you have chosen a focus area, you should consult with your College Advisor to **2) decide if you plan to transfer to a four-year school and discuss your career goals.** With this information, you and your advisor can determine the degree or certificate program that works best for you!



Consider that in 2018, 80% of jobs in Illinois will fall under College to Careers focus areas. The College to Careers (C2C) initiative makes sure that we are training people to fill these positions. C2C also partners with potential employers and transfer institutions to ensure students make smooth transitions to meet their goals.

SUCCESS

How do you define your success at City Colleges of Chicago? Once you choose a Focus Area, you will be able to figure out, with your advisor's assistance, the best courses to take at CCC to achieve your goal of transferring or looking for employment after completion of a certificate or degree.

Students are assigned an academic advisor and are encouraged to meet with their advisor often. As soon as possible, advisors will put students on a pathway, based on their career intention. The pathway shows the general education and other course recommendations that will best prepare students for future success.

If you are undecided about your major or field of interest, but you know you want to transfer and earn a bachelor's degree or if you are considering a career program, we can suggest possibilities for your first semester of college to help you decide.

Learn more by visiting [Academic Advising](#), the [Transfer Center](#), and the [Career Planning and Placement Center](#) at your college. We are here to help you succeed!

MINIMUM GENERAL EDUCATION CREDIT HOURS

Below is a general framework of all degrees currently offered at CCC. For program-specific requirements and information, please refer to Program Requirements.

	Associate in Arts	Associate in Science	Associate in Applied Science
Communications	9	9	Varies by Program
Fine Arts & Humanities	9	6	Varies by Program
Mathematics	3	6	Varies by Program
Physical & Life Sciences	7*	10*	Varies by Program
Social & Behavioral Sciences	9	6	Varies by Program
Subtotal	37	37	Varies by Program
Minimum Program Core and Electives	23	23	Varies by Program
Total Required for Degree Completion	60	60	Varies by Program
Human Diversity Required	✓	✓	✓
College(s) Offered at			

*To satisfy the Physical & Life Sciences credit hour requirements for the AA, AFA, and AS degrees, one course must be a lab course.

	Associate in Fine Arts	Associate in Engineering Science	Associate in General Studies
Communications	9	6	3
Fine Arts & Humanities	6	3	5
Mathematics	Varies by Program	5	3
Physical & Life Sciences	Varies by Program*	5	3
Social & Behavioral Sciences	Varies by Program	3	6
Subtotal	Varies by Program	22	20
Minimum Program Core and Electives	Varies by Program	42	40
Total Required for Degree Completion	Varies by Program	64	60
Human Diversity Required	✓	✓	✓
College(s) Offered at			

*To satisfy the Physical & Life Sciences credit hour requirements for the AA, AFA, and AS degrees, one course must be a lab course.

KEY

- DA Daley
- KK Kennedy-King
- MX Malcolm X
- OH Olive-Harvey
- TR Truman
- HW Harold Washington
- WR Wright

Transferring College Credit into City Colleges

A large population of students at City Colleges transfer from another college. Students must submit all college transcripts during the admission process so that the credit can be evaluated. This will help you get placed in the right course while at CCC and complete your degree more efficiently. Be sure to have your official transcript sent to the Records Office at City Colleges at the time of admission.

The General Education Core Curriculum (GECC)

These courses are offered at all seven City Colleges

You can complete the GECC in order to satisfy most core requirements in any major you choose after you transfer. In order to complete the GECC, you are required to take at least 12 to 13 courses (37 to 41 semester credits). If you complete the full package of GECC, more than 100 colleges or universities in Illinois have agreed to accept all of these credits from students transferring from City Colleges of Chicago. Students take classes in five general areas: communication; mathematics; physical and life sciences; humanities and fine arts; and social and behavioral sciences. Within each of these general areas, you will choose among many possible classes that qualify as GECC courses.

This set of general education courses is part of the Illinois Articulation Initiative (IAI), a statewide transfer agreement among Illinois colleges and universities, including City Colleges of Chicago and numerous four-year institutions in Illinois.

ASSOCIATE IN APPLIED SCIENCE

The Associate in Applied Science (AAS) degrees are occupational programs that are structured for students primarily interested in acquiring Career Technical Education (CTE) skills in order to enter the job market. However, a number of four-year institutions offer baccalaureate degrees designed to accommodate AAS degree graduates. Students planning to transfer to a four-year institution should meet with an advisor from the institution to which he/she plans to attend to discuss transferability of the AAS degree and individual courses.

Students seeking an AAS degree must select a program of study, (e.g., Child Development, Manufacturing Technology, Nursing) in order to determine the specific general education courses, the program core courses, and electives that are required to complete the program. An AAS degree is comprised of 50 to 75% of required technical core and specialty course work. Additionally, the AAS degree requires a minimum of 15 credit hours of general education. Students are required to take at least one course that fulfills the State of Illinois Human Diversity (HD) requirement for the Associate in Applied Science degree.

- Minimum General Education** 15 Credit Hours
- Minimum Degree Core and Electives** 45 Credit Hours
- Minimum Degree Credit Hours** 60 Credit Hours

Degree offered at: 

ASSOCIATE IN ARTS (0210)

The Associate in Arts (AA) degree prepares an individual for transfer to a four-year college or university. Consistent with the IAI model and the ICCB Administrative Rules, City Colleges of Chicago requires that the degree is inclusive of a minimum of 37 semester hours of General Education.

For students who want to earn an associate degree before transferring to a four-year institution, the Associate in Arts degree (AA) is the traditional choice for most students. The AA degree indicates a student has mastered the basics of higher education. This degree plan provides you with the IAI General Education Core Curriculum (GECC) courses explained above, and in addition, you will select elective classes (25 credit hours).

Students are required to take at least one course that fulfills the State of Illinois Human Diversity (HD) requirement for the Associate in Arts degree.

General Education 37 Credit Hours

- English (0035)
 - 101 Composition I..... 3
 - 102 Composition II..... 3
- Speech (0095)
 - 101 Fundamentals of Speech Communication..... 3
- Mathematics..... 3
- Fine Arts & Humanities 9

At least one (1) of the above courses must be from the Fine Arts category, and at least one (1) must be from the Humanities category.
- Social & Behavioral Sciences 9
- Physical & Life Sciences 7

At least one (1) of the above courses must be from the Physical Sciences category, and at least one (1) must be from the Life Sciences category. At least one (1) lab course is required.

AA Electives 23 Credit Hours

Students should work with a College Advisor to select appropriate core and elective courses or select an AA semester map as a guide.

Total Degree Credit Hours 60 Credit Hours

Degree offered at: 

**ASSOCIATE IN ENGINEERING SCIENCE
(0100)**

The Associate in Engineering Science (AES) degree offers courses required for transfer to a four-year college or university for students majoring in engineering sciences. Completion of the AES degree does not fulfill the requirements of the IAI General Education Core Curriculum (IAI GECC). City Colleges of Chicago requires that the degree is inclusive of a minimum of 22 semester hours of General Education. A student must complete the general education requirements of the college or university to which she/he transfers.

General Education 22 Credit Hours

English (0035)

101 Composition I3

102 Composition II3

Mathematics (0045)

207 Calculus and Analytic Geometry I5

Chemistry (0073)

201 General Chemistry I5

Fine Arts & Humanities

1 course3

Social & Behavioral Sciences

1 course3

One of the courses in the Humanities or Social & Behavioral Sciences category must satisfy the Human Diversity requirement.

Required Degree Core 42 Credit Hours

Mathematics (0045)

208 Calculus and Analytic Geometry II5

209 Calculus and Analytic Geometry III5

210 Differential Equations3

Physics (0077)

235 Engineering Physics I: Mechanics and Wave Motion.....5

236 Engineering Physics II: Electricity and Magnetism.....5

237 Engineering Physics III: Heat, Light, and Modern Physics5

Engineering (0034)

190 Computer Applications in Engineering3

Students must select a minimum of 11 credit hours from the following courses:

Physics (0077)

215 Statics3

216 Dynamics3

217 Mechanics of Materials3

Engineering (0034)

111 Introduction to Drafting 2

131 Engineering Graphics and Introduction to Design..... 3

215 Electrical Circuit Analysis..... 5

250 Engineering Projects..... 1–2

Chemistry (0073)

203 General Chemistry II 5

Electronics (0033)

206 Digital Circuits and Systems 4

Total Degree Credit Hours 64 Credit Hours

Degree offered at:  :

ASSOCIATE IN GENERAL STUDIES (0203)

The Associate in General Studies (AGS) degree provides students the ability to explore a broad range of college-level courses to develop new skills or investigate a personal interest. Courses may transfer individually to a four-year university, but the degree as a whole is not designed for transfer or as an occupational degree. Students should work closely with an advisor to determine if the AGS is the right degree program to reach their individual goals. City Colleges of Chicago requires that the degree is inclusive of a minimum of 20 semester hours of General Education.

General Education 20 Credit Hours

Students are required to take at least one general education course that fulfills the State of Illinois Human Diversity (HD) requirement for the Associate Degree.

English (0035)

101 Composition I.....	3
Mathematics.....	3
Fine Arts & Humanities.....	5
Social & Behavioral Sciences.....	6
Physical & Life Sciences.....	3

Degree Electives 40 Credit Hours

Total Degree Credit Hours 60 Credit Hours

Degree offered at: 

ASSOCIATE IN SCIENCE (0211)

The Associate in Science (AS) degree prepares an individual for transfer to a four-year college or university. Consistent with the IAI model and the ICCB Administrative Rules, City Colleges of Chicago requires that the degree is inclusive of a minimum of 37 semester hours of General Education. For students who already know they are interested in science, technology, engineering, or mathematics (the “STEM” fields), the Associate in Science degree, or even the Associate in Engineering Science (AES), is probably the one to pursue. This is also a transfer degree, and it is similar to the Associate in Arts. The main difference early-on concerns the selection of specific math and science courses, which will be different for students who want to major in a STEM field. Again, working closely with your advisor will ensure that you enroll in the right classes to achieve your goals.

Students are required to take at least one course that fulfills the State of Illinois Human Diversity (HD) requirement for the Associate in Science degree.

General Education 37 Credit Hours

English (0035)

101 Composition I.....	3
102 Composition II.....	3
Speech (0095)	
101 Fundamentals of Speech Communication.....	3
Mathematics.....	6
Social & Behavioral Sciences.....	6
Fine Arts & Humanities.....	6
Physical & Life Sciences.....	10

At least one (1) of the above courses must be from the Fine Arts category, and at least one (1) must be from the Humanities category.

At least one (1) of the above courses must be from the Physical Sciences category, and at least one (1) must be from the Life Sciences category. At least one (1) lab course is required.

AS Electives 23 Credit Hours

Students should work with a College Advisor to select appropriate core and elective courses, or simply select an AS semester map as a guide.

Total Degree Credit Hours 60 Credit Hours

Degree offered at: 



ADVANCED MANUFACTURING

Whether you are interested in learning how to program computerized machines and robotic assembly systems or enjoy working with numbers and your hands, consider pursuing a career in the high-growth field of Advanced Manufacturing. City Colleges offers Advanced Manufacturing programs that have been validated by our industry partners.

City Colleges offers transfer degrees—Associate in Arts (AA) and Associate in Science (AS)—that make transferring to a four-year college or university easy and convenient. There are several transfer pathways at CCC, which are suggested coursework that align with the area of study you are interested in. If a Focus Area offers any transfer pathways, they will be denoted in the below chart by the letter pairings AA or AS. Each pathway is hyperlinked to their Program Finder page where their semester map can be found.

To learn more about Advanced Manufacturing at City Colleges of Chicago, visit www.ccc.edu/manufacturing.

DEGREES AND CERTIFICATES

COMPUTER-AIDED DESIGN (CAD)	BASIC CERTIFICATE	ADVANCED CERTIFICATE	ASSOCIATE DEGREE
Computer-Aided Design (CAD) Technology	●	●	AAS
Mechanical Technology: CAD	✘		
COMPUTER NUMERIC CONTROL			
CNC Operations	●		
Computer Numeric Control Machining	●	●	
Computer Numeric Control Technician	✘		
FACTORY AUTOMATION			
Factory Automation	●	●	
Manufacturing Technology		✘	AAS
PROCESS TECHNOLOGY			
Safety for Process Technology	●		
QUALITY ASSURANCE			
Quality Assurance	●		
WELDING			
Industrial Welding	●		
Welding (Industrial Technology)	✘		
Welding	●		

✘ This program is no longer accepting new students.

● This program is being offered and accepting new students.

CNC OPERATIONS

Basic Certificate (0422)


For more info on the Basic Certificate in CNC Operations, please visit www.ccc.edu/programs/Pages/CNC-Operations-Basic-Certificate.aspx

Required Program Core 6 Credit Hours

Manufacturing Tech TC1 (0340)

111 Machining Processes I OR.....	3
112 Machining Processes II.....	3
140 CNC Fundamentals.....	3

Total Program Credit Hours 6 Credit Hours

PROGRAM OFFERED AT:  

COMPUTER-AIDED DRAFTING (CAD) TECHNOLOGY

Basic Certificate (0139)

For more info on the Basic Certificate in Computer-Aided Drafting (CAD) Technology, please visit www.ccc.edu/programs/Pages/CAD-Technology-Basic-Certificate.aspx.

Required Program Core 16 Credit Hours

CAD Technology (0049)

130 CAD Technology I.....	3
170 CAD Technology II.....	3
171 CAD Technology III.....	3
172 CAD Technology IV.....	3

Mathematics (0045) OR Cooperative Work Experience (0008)

140 College Algebra OR.....	4
208 Engineering and Industrial Technologies.....	4

Total Program Credit Hours 16 Credit Hours

PROGRAM OFFERED AT: 

COMPUTER-AIDED DRAFTING (CAD) TECHNOLOGY

Advanced Certificate (0138)

For more info on the Advanced Certificate in Computer-Aided Drafting (CAD) Technology, please visit www.ccc.edu/programs/Pages/CAD-Technology-Advanced-Certificate.aspx.

Required Program Core 34 Credit Hours

Engineering (0034)

100 Elements of Engineering Drawing.....	3
131 Engineering Graphics and Introduction to Design.....	3
132 Descriptive Geometry.....	3
190 Computer Applications in Engineering.....	3
202 Advanced Drafting and Basic Machine Design.....	3
Mathematics (0045)	
140 College Algebra.....	4
141 Plane Trigonometry.....	3
CAD Technology (0049)	
130 CAD Technology I.....	3
170 CAD Technology II.....	3
171 CAD Technology III.....	3
172 CAD Technology IV.....	3

Total Program Credit Hours 34 Credit Hours

PROGRAM OFFERED AT: 

COMPUTER-AIDED DRAFTING (CAD) TECHNOLOGY

Associate in Applied Science (0144)

The Associate in Applied Science degree program in Computer-Aided Design (CAD) Technology provides the technical instruction and skill development for the graduate to become successfully employed in the drafting fields of the mechanical, architectural, and construction industry. Instruction is directed toward theoretical and technical skills in the use of modern drafting tools and equipment with emphasis placed on the training of CAD techniques.

For more info on the Associate in Applied Science degree in Computer-Aided Drafting (CAD) Technology, please visit www.ccc.edu/programs/Pages/CAD-Technology-Associate-in-Applied-Science.aspx.

General Education Coursework 17 Credit Hours

English (0035)	
101 Composition I	3
Mathematics (0045)	
140 College Algebra	4
Physics (0077)	
231 General Physics I: Mechanics and Wave Motion	4
Fine Arts & Humanities course	3
Computer Information Systems (0032)	
120 Introduction to Microcomputers	3

Required Program Core 43 Credit Hours

Computer Information Systems (0032)	
103 Introduction to BASIC Language	3
116 Introduction to Operating Systems	3
123 Microcomputer Spreadsheets	3
Engineering (0034)	
100 Elements of Engineering Drawing	3
110 Introductory Drafting	2
111 Introduction to the Engineering Profession	2
131 Engineering Graphics and Introduction to Design	3
132 Descriptive Geometry	3
190 Computer Applications in Engineering	3
202 Advanced Drafting and Basic Machine Design	3
Mathematics (0045)	
141 Plane Trigonometry	3
CAD Technology (0049)	
130 CAD Technology I	3
170 CAD Technology II	3
171 CAD Technology III	3

172 CAD Technology IV 3

Total Program Credit Hours 60 Credit Hours

PROGRAM OFFERED AT: 

COMPUTER NUMERIC CONTROL MACHINING

Basic Certificate (0724)

The Basic Certificate in CNC Machining provides students with the skills and knowledge to set up and operate CNC lathes and mills. Certificate completers will be able to gain entry-level jobs as CNC machine operators or machinist trainees.

For more info on the Basic Certificate in Computer Numeric Control Machining, please visit [www.ccc.edu/programs/Pages/Computer-Numeric-Control-\(CNC\)-Machining-Basic-Certificate.aspx](http://www.ccc.edu/programs/Pages/Computer-Numeric-Control-(CNC)-Machining-Basic-Certificate.aspx)

Required Program Core 15 Credit Hours

Manufacturing Tech TC1 (0340)	
111 Machining Processes I	3
112 Machining Processes II	3
123 CNC Milling Operations and Programming	3
137 CNC Turning Operations and Programming	3
140 CNC Fundamentals	3

Program Electives 1 Credit Hour

Interdisciplinary Studies (0104)	
102 Career Development and Decision Making	1

Total Program Credit Hours 16 Credit Hours

PROGRAM OFFERED AT:  

This program has been updated please see Addendum

COMPUTER NUMERIC CONTROL MACHINING

Advanced Certificate (0725)

The Advanced Certificate program in Computerized Numeric Control Machining is designed for the study of the basic principles of machine tool technology incorporating basic computer applications to the manufacturing industry, including CNC programming and computer integrated manufacturing (CAD/CAM).

For more info on the Advanced Certificate in Computer Numeric Control Machining, please visit [www.ccc.edu/programs/Pages/Computer-Numeric-Control-\(CNC\)-Machining-Advanced-Certificate.aspx](http://www.ccc.edu/programs/Pages/Computer-Numeric-Control-(CNC)-Machining-Advanced-Certificate.aspx).

Required Program Core 37 Credit Hours

- English (0035)
 - 101 Composition I3
- Mathematics (0045)
 - 125 Introductory Statistics.....4
- Manufacturing Tech TC1 (0340)
 - 111 Machining Processes I.....3
 - 112 Machining Processes II.....3
 - 123 CNC Milling Operations and Programming3
 - 137 CNC Turning Operations and Programming3
 - 138 Introduction to SolidWorks3
 - 139 Print Requirements: Quality Assurance3
 - 140 CNC Fundamentals.....3
 - 143 Advanced Metrology3
 - 144 Wire Electrical Discharge Machining.....3
 - 207 Introduction to MASTERCAM3

Total Program Credit Hours 37 Credit Hours

PROGRAM OFFERED AT: 

COMPUTER NUMERIC CONTROL TECHNICIAN

Basic Certificate (0826)*

**Beginning Summer 2017, this program is no longer accepting new students. Please refer to CCC's other Advanced Manufacturing offerings.*


The instructor certified CNC certificate program is for students interested in manufacturing in the area of Computer Numeric Control. By enrolling in 200 hours of training to become a machinist CNC set-up or operator, students will learn the safety and maintenance procedures of manufacturing; operate machinery such as drill press, lathes and mills; learn CNC machining such as writing G/M code, and run simulations of writing and running programs on the CNC machinery.

For more info on the Advanced Certificate in Computer Numeric Control Technician, please visit [www.ccc.edu/programs/Pages/Computer-Numeric-Control-\(CNC\)-Technician-Basic-Certificate.aspx](http://www.ccc.edu/programs/Pages/Computer-Numeric-Control-(CNC)-Technician-Basic-Certificate.aspx)

Required Program Core 15 Credit Hours

- Short-Term Trade/Industrial/Trans (0504)
 - 126 Machining Processes I.....3
 - 127 Machining Processes II.....3
 - 128 Computer Numerical Control Fundamentals.....3
 - 129 CNC Milling Operations and Programming.....3
 - 130 CNC Turning Operations and Programming.....3

Total Program Credit Hours 15 Credit Hours

PROGRAM OFFERED AT: 

FACTORY AUTOMATION

Basic Certificate (0726)


Factory Automation technicians operate, maintain, repair, and install automated production equipment used through manufacturing. Modern production requires digital, programmable skills such as robotic programming, sensor technology, and the use of Programmable Logic Controllers. This certificate provides foundational mechanical and electrical skills for entry-level jobs in maintenance, repair and installation of manufacturing production equipment. Program completers will be employable as a maintenance mechanic trainees or helpers, and building maintenance trainees. Students will also have the opportunity to earn the Manufacturing Skill Standards Council's (MSSC) credential in Maintenance Awareness.

For more info on the Basic Certificate in Factory Automation, please visit www.ccc.edu/programs/Pages/Factory-Automation-Basic-Certificate.aspx.

Required Program Core 22 Credit Hours

- Manufacturing Tech TC1 (0340)
 - 151 Introduction to Welding3
 - 191 Industrial Electricity.....4
 - 253 Pneumatics.....3
 - 255 Industrial Hydraulics3
 - 291 Programmable Logic Controllers3
 - 292 Principles of Mechanisms3
 - 295 Electrical Motor Controls.....3

Total Program Credit Hours 22 Credit Hours

PROGRAM OFFERED AT: 


FACTORY AUTOMATION

Advanced Certificate (0727)

Factory Automation technicians operate, maintain, repair, and install automated production equipment used through manufacturing. Modern production requires digital, programmable skills such as robotic programming, sensor technology, and the use of Programmable Logic Controllers. This certificate provides foundational mechanical and electrical skills for entry-level jobs in maintenance, repair and installation of manufacturing production equipment. Program completers will be employable as a maintenance mechanic trainees or helpers, and building maintenance trainees. Students will also have the opportunity to earn the Manufacturing Skill Standards Council's (MSSC) credential in Maintenance Awareness.

For more info on the Advanced Certificate in Factory Automation, please visit www.ccc.edu/programs/Pages/Factory-Automation-Advanced-Certificate.aspx

Required Program Core	38 Credit Hours
English (0035)	
101 Composition I.....	3
Mathematics (0045)	
125 Introductory Statistics.....	4
Manufacturing Tech TC1 (0340)	
111 Machining Processes I.....	3
145 Computer Integrated Manufacturing.....	3
151 Introduction to Welding	3
152 Intermediate Welding	3
191 Industrial Electricity	4
253 Pneumatics	3
255 Industrial Hydraulics.....	3
291 Programmable Logic Controllers.....	3
292 Principles of Mechanisms	3
295 Electrical Motor Controls	3
Total Program Credit Hours	38 Credit Hours

PROGRAM OFFERED AT: 

151 Introduction to Welding	3
152 Intermediate Welding.....	3

Total Program Credit Hours 6 Credit Hours

PROGRAM OFFERED AT: 


MANUFACTURING TECHNOLOGY

Advanced Certificate (0771)*

**Beginning Summer 2017, this program is no longer accepting new students. Please refer to CCC's other Advanced Manufacturing offerings.*

For more info on the Advanced Certificate in Manufacturing Technology, please visit www.ccc.edu/programs/Pages/Manufacturing-Technology-Advanced-Certificate.aspx

Required Program Core	35 Credit Hours
English (0035)	
101 Composition I.....	3
Mathematics (0045)	
125 Introductory Statistics	4
Manufacturing Tech TC1 (0340)	
102 Blueprint Reading, Dimensioning, and Tolerance.....	3
111 Machining Processes I.....	3
112 Machining Processes II.....	3
191 Industrial Electricity	4
201 Supervised Work-Based Learning	3
253 Pneumatics	3
255 Industrial Hydraulics	3
291 Programmable Logic Controllers	3
292 Principles of Mechanisms	3
Total Program Credit Hours	35 Credit Hours

PROGRAM OFFERED AT: 

Industrial Welding

Basic Certificate (0423)

For more info on the Basic Certificate in Industrial Welding, please visit www.ccc.edu/programs/Pages/Industrial-Welding-Basic-Certificate.aspx

Required Program Core	6 Credit Hours
Manufacturing Tech TC1 (0340)	

MANUFACTURING TECHNOLOGY

Associate in Applied Science (0770)

The AAS in Manufacturing Technology offers the technologies required for maintenance mechanics in the manufacturing or service industries and covers theory and practical projects. The program is appropriate for career changers, high school graduates, GED holders, and machining workers with a need to enhance their careers.

For more info on the AAS degree in Manufacturing Technology, visit www.ccc.edu/programs/Pages/Manufacturing-Technology-Welding-Associate-in-Applied-Science.aspx

General Education 16 Credit Hours

English (0035)	
101 Composition I.....	3
Mathematics (0045)	
125 Introductory Statistics.....	4
Fine Arts & Humanities.....	3
Social & Behavioral Sciences.....	3
Fine Arts & Humanities or Social & Behavioral Sciences.....	3

Required Program Core 16 Credit Hours

Manufacturing Tech TC1 (0340)	
138 Introduction to SolidWorks.....	3
139 Print Requirements: Quality Assurance.....	3
141 Manufacturing Materials and Processes.....	3
191 Industrial Electricity.....	4
292 Principles of Mechanisms.....	3

Program Electives 30 Credit Hours

Students should select 30 credit hours from the below courses:

Manufacturing Tech TC1 (0340)	
104 Statistical Process Control (SPC).....	3
111 Machining Processes I.....	3
112 Machining Processes II.....	3
123 CNC Milling Operations and Programming.....	3
137 CNC Turning Operations and Programming.....	3
140 CNC Fundamentals.....	3
142 Geometric Dimensioning and Tolerancing.....	3
143 Advanced Metrology.....	3
144 Wire Electrical Discharge Machining.....	3
207 Introduction to MASTERCAM.....	3
145 Computer Integrated Manufacturing (CIM).....	3
151 Introduction to Welding.....	3
152 Intermediate Welding.....	3

253 Pneumatics.....	3
255 Industrial Hydraulics.....	3
291 Programmable Logic Controllers.....	3
295 Electric Motor Controls.....	3
Business (0030)	
111 Introduction to Business.....	3
181 Financial Accounting.....	4
182 Managerial Accounting.....	4
237 Selling.....	3
269 Principles of Management.....	3
274 Industrial Management.....	3
Interdisciplinary Studies (0104)	
102 Career Development and Decision Making.....	1

Total Program Credit Hours 62 Credit Hours

PROGRAM OFFERED AT: 

MECHANICAL TECHNOLOGY: CAD

Basic Certificate (0163)*

*Beginning Summer 2016, this program is no longer accepting new students. Please refer to CCC's other Manufacturing offerings.

Completion of the Basic Certificate in Mechanical Technology: CAD provides the technical instruction and skills development for graduates to find successful employment in the field of drafting, working for mechanical, architectural and construction companies.

For more info on the Basic Certificate in Mechanical Technology: CAD, please visit www.ccc.edu/programs/Pages/Mechanical-Technology-CAD-Basic-Certificate.aspx

Required Program Core 9 Credit Hours

CAD Technology (0049)	
170 CAD Technology II.....	3
171 CAD Technology III.....	3
172 CAD Technology IV.....	3

Total Program Credit Hours 9 Credit Hours

PROGRAM OFFERED AT: 

QUALITY ASSURANCE

PROGRAM OFFERED AT: 

Basic Certificate (0729)

Quality assurance professionals use precision measurement and statistical tools to verify that products and services meets expectations. This certificate program provides foundational skills for quality assurance in manufacturing such as print reading, geometric dimensioning and tolerancing, and statistical process control.

For more info on the Basic Certificate in Quality Assurance, please visit www.ccc.edu/programs/Pages/Quality-Assurance-Basic-Certificate.aspx

Required Program Core 16 Credit Hours

Mathematics (0045)	
125 Introductory Statistics.....	4
Manufacturing Tech TC1 (0340)	
104 Statistical Process Control (SPC).....	3
139 Print Requirements: Quality Assurance	3
142 Geometric Dimensioning and Tolerancing	3
143 Advanced Metrology	3

Total Program Credit Hours 16 Credit Hours

PROGRAM OFFERED AT: 

SAFETY FOR PROCESS TECHNOLOGY

Basic Certificate (0412)

The Safety for Process Technology Basic Certificate program prepares students to work as entry-level operators in continuous or large batch production processes in manufacturing. Operating and monitoring production equipment in refineries, food, pharmaceutical and bio-manufacturing, process technicians use a range of instruments and sensors to measure and track temperature, pressure, viscosity, chemical composition, color and other physical and chemical properties. Process Technicians ensure safety, health, and other environmental practices and standards in all areas of plant activities. Students will earn the safety credential from the Manufacturing Skill Standards Council (MSSC).

For more info on the Basic Certificate in Safety for Process Technology, please visit www.ccc.edu/programs/Pages/Safety-for-Process-Technology-Basic-Certificate.aspx

Required Program Core 10 Credit Hours

Process Technology (0340)	
124 Introduction to Process Technology.....	4
125 Safety, Health, and Environment	6

Total Program Credit Hours 10 Credit Hours

WELDING

Basic Certificate (0765)

Welding is a challenging and rewarding career that combines the manual techniques of traditional welding processes with new digital skills used in robotic welding. With continual advances in welding technology, students in this program will study manufacturing materials and processes, including basic metallurgy and electricity, as well as print reading and fundamental quality assurance concepts. The welding processes that students will master include Gas Metal Arc Welding (GMAW or “MIG” welding), Shielded Metal Arc Welding (SMAW or “stick”), and Gas Tungsten Arc Welding (GTAW or “TIG”). Automated welding is taught using a FANUC robot and controller with a Lincoln Electric welder. Basic Certificate completers will be able to gain jobs as welders and entry level jobs in automated (or robotic) welding.

For more info on the Basic Certificate in Welding, please visit www.ccc.edu/programs/Pages/Welding-Basic-Certificate.aspx

Required Program Core 16 Credit Hours

Manufacturing Tech TC1 (0340)	
139 Print Requirements: Quality Assurance	3
141 Manufacturing Materials and Processes.....	3
151 Introduction to Welding	3
152 Intermediate Welding.....	3
191 Industrial Electricity.....	4

Total Program Credit Hours 16 Credit Hours

PROGRAM OFFERED AT: 

WELDING (INDUSTRIAL TECHNOLOGY)**Basic Certificate (0827)***

**Beginning Summer 2017, this program is no longer accepting new students. Please refer to CCC's other Advanced Manufacturing offerings.*

The Industrial Welding Technology certificate program provides students with welding skills in a shop setting. Students are taught ARC, MIG, and TIG welding and all welding positions. Plasma and oxy-gas cutting are also taught. In addition, students examine job safety, ethics, and metallurgy. Graduates find entry-level employment as welders, solderers, and braziers. Upon program completion, students will receive Scaffold Safety Certification and the 10-Hour OSHA Construction Certification.

For more info on the Basic Certificate in Welding (Industrial Technology), please visit www.ccc.edu/programs/Pages/default.aspx.

Required Program Core 13 Credit Hours

Short-Term Trade/Industrial/Trans (0504)

131 Machine Shop Mathematics I.....	2
132 Introduction to Welding Principles.....	3
133 Intermediate Welding	3
134 Blueprint Reading for Welders	2
135 Advanced Welding	3

Total Program Credit Hours 13 Credit Hours

PROGRAM OFFERED AT:





BUSINESS AND PROFESSIONAL SERVICES

Business and Professional Services prepares students for careers as varied as marketing, management, insurance, and banking. Careers like these may have you working with financial statements, analyzing data to interpret trends, creating a marketing strategy, or managing an overall business plan. City Colleges' Business and Professional Services programs get you ready for further college or a career with one of our industry partners and beyond.

City Colleges offers transfer degrees—Associate in Arts (AA) and Associate in Science (AS)—that make transferring to a four-year college or university easy and convenient. There are several transfer pathways at CCC, which are suggested coursework that align with the area of study you are interested in. If a Focus Area offers any transfer pathways, they will be denoted in the below chart by the letter pairings AA or AS. Each pathway is hyperlinked to their Program Finder page where their semester map can be found.

To learn more about Business and Professional Services at City Colleges of Chicago, visit www.ccc.edu/business.

DEGREES AND CERTIFICATES

ACCOUNTING, FINANCE, AND INSURANCE	BASIC CERTIFICATE	ADVANCED CERTIFICATE	ASSOCIATE DEGREE
Accounting	*	X	X
Accounting			AA
Accounting Clerk	●		
Banking	●		
Business/Finance			AA
CPA Preparation—Post Baccalaureate		●	
Insurance			AA
ARCHITECTURE			
Architectural CAD	●		
Architecture	●		AAS
GENERAL BUSINESS			
Business Administration—General Business		X	
Business/Economics			AA
Business/Economics (online)			AA
Digital Marketing and Social Media		●	
Human Resources	●		
Management/Marketing	*	X	X
PROFESSIONAL SERVICES			
Library Technical Assistant	●		AAS
Paralegal			AAS
Real Estate Broker Pre-Licensure	X		

X This program is no longer accepting new students. ● This program is offered and accepting new students.

* This program is only accepting new students at select colleges. Please refer to the program's course requirements for colleges still admitting new students.

ACCOUNTING

Basic Certificate (0002)*

**Beginning Summer 2016, this program is no longer accepting new students at DA, HW, KK, MX, OH, or WR.. Please refer to the transfer degree in Accounting, the Advanced Certificate in CPA Preparation-Post Baccalaureate, or the Basic Certificate in Accounting Clerk.*

For more info on the Basic Certificate in Accounting, please visit www.ccc.edu/programs/Pages/Accounting-Basic-Certificate.aspx.

Required Program Core 17 Credit Hours

Business (0030)

181 Financial Accounting	4
182 Managerial Accounting.....	4

Students must select a minimum of 9 credit hours from the following courses:

Business (0030)

111 Introduction to Business.....	3
141 Business Mathematics	3
203 Introduction to Cost Accounting	3
204 Computer Applications Intermediate Accounting	1
205 Intermediate Accounting	3
206 Auditing.....	3
208 Federal Income Tax	3
211 Business Law.....	3
250 Computerized Accounting Systems	3

Computer Information Systems (0032)

120 Introduction to Microcomputers.....	3
123 Microcomputer Spreadsheets	3
145 Database Management.....	3
158 Web Development I.....	3

Total Program Credit Hours 17 Credit Hours

PROGRAM OFFERED AT: 

ACCOUNTING

Advanced Certificate (0003)*

**Beginning Summer 2016, this program is no longer accepting new students. Please refer to the transfer degree in Accounting, the Advanced Certificate in CPA Preparation-Post Baccalaureate, or the Basic Certificate in Accounting Clerk.*

For more info on the Advanced Certificate in Accounting, please visit www.ccc.edu/programs/Pages/Accounting-Advanced-Certificate.aspx.

Required Program Core 21 Credit Hours

Business (0030)

111 Introduction to Business	3
181 Financial Accounting.....	4
182 Managerial Accounting	4
204 Computer Applications Intermediate Accounting	1
205 Intermediate Accounting	3
208 Federal Income Tax.....	3
241 Introduction to Finance	3

Program Electives 9 Credit Hours

Students should select a minimum of 9 credit hours from the following courses or others as recommended by a College Advisor:

Business (0030)

141 Business Mathematics	3
203 Introduction to Cost Accounting	3
206 Auditing.....	3
211 Business Law.....	3
250 Computerized Accounting Systems	3

Computer Information Systems (0032)

120 Introduction to Microcomputers.....	3
123 Microcomputer Spreadsheets.....	3
145 Database Management	3
158 Web Development I	3

Total Program Credit Hours 30 Credit Hours

PROGRAM OFFERED AT: 

ACCOUNTING

Associate in Applied Science (0001)*

**Beginning Summer 2016, this program is no longer accepting new students. Please refer to the transfer degree in Accounting, the Advanced Certificate in CPA Preparation-Post Baccalaureate, or the Basic Certificate in Accounting Clerk.*

The Associate in Applied Science degree program in Accounting is the study of basic accounting skills. Completion of the program can lead to various levels of accounting positions in accounting firms, retail stores, manufacturing, service business, and small business employment as a junior member of an accounting staff, estimator, credit analyst, budget or general accountant, bank teller, and accounts receivable or accounts payable clerk.

For more info on the Associate in Applied Science degree in Accounting, please visit www.ccc.edu/programs/Pages/Accounting-Associate-in-Applied-Science.aspx.

Students should select a minimum of 9 credit hours from the following courses or others as recommended by a College Advisor:

Business (0030)

203 Introduction to Cost Accounting	3
Computer Information Systems (0032)	
123 Microcomputer Spreadsheets	3
145 Database Management	3
158 Web Development I	3

Total Program Credit Hours 60 Credit Hours



General Education Coursework 15 Credit Hours

English (0035)

101 Composition I	3
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Additional General Education Courses..... 12

Select an additional 12 hours of general education courses from Communications, Fine Arts & Humanities, Mathematics, Social & Behavioral Sciences, or Physical & Life Sciences.

At least one course must meet the Human Diversity (HD) requirement.

Required Program Core 36 Credit Hours

Business (0030)

111 Introduction to Business	3
181 Financial Accounting	4
182 Managerial Accounting.....	4
204 Computer Applications Intermediate Accounting	1
205 Intermediate Accounting	3
206 Auditing	3
208 Federal Income Tax	3
211 Business Law I OR.....	3
214 The Legal and Social Environment of Business.....	3
241 Introduction to Finance.....	3
250 Computerized Accounting Systems	3

Business (0030) OR Mathematics (0045)

141 Business Mathematics OR.....	3
118 General Education Mathematics OR higher.....	4

Computer Information Systems (0032)

120 Introduction to Microcomputers.....	3
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Program Electives 9 Credit Hours

ACCOUNTING CLERK

Basic Certificate (0424)

The Accounting Clerk Basic Certificate will prepare individuals to provide high-tech administrative support to professional accountants, financial managers, and business owners. The program will provide students with opportunities to develop basic skills in preparation for employment in modern, technology-driven offices in many entities, governments, schools, profit and non-profit organizations, and self-employment occupations.

For more info on the Basic Certificate in Accounting Clerk, please visit www.ccc.edu/programs/Pages/Accounting-Clerk-Basic-Certificate.aspx.

Required Program Core 23 Credit Hours

Business (0030)

111 Introduction to Business.....	3
181 Financial Accounting.....	4
182 Managerial Accounting.....	4
183 Payroll Accounting and Taxes.....	3
213 Data Visualization and Presentation.....	3
250 Computerized Accounting Systems	3
284 Business Communications.....	3

Program Electives 3 Credit Hours

Students should select a minimum of 3 credit hours from the following courses:

Business (0030)

203 Introduction to Cost Accounting	3
208 Federal Income Tax 3	
211 Business Law I.....	3
214 Legal and Social Environment of a Business.....	3
215 Corporate and Entity Federal Income Tax	3
217 Nonprofit Accounting.....	3

Total Program Credit Hours 26 Credit Hours

PROGRAM OFFERED AT: 

Architecture (0005)

170 Digital Lab I.....	3
171 Digital Lab II.....	3
172 Digital Lab III.....	3

Total Program Credit Hours 9 Credit Hours

PROGRAM OFFERED AT: 

ARCHITECTURE

Basic Certificate (0124)

For more info on the Basic Certificate in Architecture, please visit


www.ccc.edu/programs/Pages/Architectural-Drafting-Basic-Certificate.aspx.

Required Program Core 20 Credit Hours

Architecture (0005)

110 Architectural Sketching.....	2
121 Basic Design Studio.....	4
122 Intermediate Design Studio.....	4
166 Architectural Design I.....	4
170 Digital Lab I.....	3
171 Digital Lab II.....	3

Total Program Credit Hours 20 Credit Hours

PROGRAM OFFERED AT:  

ARCHITECTURAL CAD

Basic Certificate (0132)

For more info on the Basic Certificate in Architectural CAD, please visit

www.ccc.edu/programs/Pages/Architectural-CAD-Basic-Certificate.aspx.

Required Program Core 9 Credit Hours

This program has been updated please see Addendum

ARCHITECTURE

Associate in Applied Science (0122)

The Associate in Applied Science degree in Architecture prepares students for employment as a draftsman or detailer with an architecture or design firm or as a contractor, material supplier or with a construction company. Completion of the degree also leads to the further study of architecture and related fields at several transfer destinations.

For more info on the Associate in Applied Science degree in Architecture, please visit www.ccc.edu/programs/Pages/Architectural-Drafting-Associate-in-Applied-Science.aspx.

General Education Coursework	15 Credit Hours
Communications.....	3
Mathematics/Science	3
Fine Arts & Humanities.....	3
Social & Behavioral Sciences.....	3
Additional General Education Course	3

At least one course must meet the Human Diversity (HD) requirement.

Required Program Core 54 Credit Hours

Architecture (0005)	
104 History of Architecture I.....	3
105 History of Architecture II.....	3
110 Architectural Sketching	2
121 Basic Design Studio.....	4
122 Intermediate Design Studio.....	4
123 Advanced Design Studio.....	4
166 Architectural Design I.....	4
170 Digital Lab I.....	3
171 Digital Lab II.....	3
172 Digital Lab III	3
202 Construction I.....	4
204 Construction II.....	4
220 Portfolio Development.....	2
266 Architectural Design II.....	4
Mathematics (0045)	
140 College Algebra	4
141 Plane Trigonometry.....	3

Total Program Credit Hours 69 Credit Hours

PROGRAM OFFERED AT:  

BANKING

Basic Certificate (0417)

The Basic Certificate program in Banking is designed to provide students who have little or no formal business knowledge of the banking industry with introductory information and understand of business and banking. Students will gain knowledge of business and banking operations, aptitude in mathematical calculations, client interaction and client management skills, business development aptitude, technological proficiency, soft skills, and cash handling experience.

For more info on the Basic Certificate in Banking, please visit www.ccc.edu/programs/Pages/Banking-Basic-Certificate.aspx.

Required Program Core	18 Credit Hours
English (0035)	
101 Composition I.....	3
Business (0030)	
141 Business Mathematics.....	3
161 Principles of Banking Operations.....	3
213 Data Visualization and Presentation for Business	3
237 Selling.....	3
284 Business Communications.....	3

Total Program Credit Hours 18 Credit Hours

PROGRAM OFFERED AT: 

BUSINESS ADMINISTRATION/GENERAL BUSINESS

Advanced Certificate (0042)*

*Beginning Summer 2016, this program is no longer accepting new students. Please refer to CCC's other Business offerings.

The Advanced Certificate program in Business Administration/General Business is the study of basic business administration, which can lead to employment in management positions in business, industry, or government such as accounting, economics, finance, labor economics, marketing, and personnel management.

For more info on the Advanced Certificate in Business Administration/General Business, please visit www.ccc.edu/programs/Pages/Business-Administration---General-Business-Advanced-Certificate.aspx.

Entrepreneurship (0143)

201 Introduction to Entrepreneurship..... 3

202 Opportunity Recognition and Development 3

Total Program Credit Hours 30 Credit Hours

PROGRAM OFFERED AT:  

Required Program Core 20 Credit Hours

Business (0030)

111 Introduction to Business..... 3

181 Financial Accounting 4

182 Managerial Accounting..... 4

211 Business Law I OR..... 3

214 The Legal and Social Environment of Business..... 3

Computer Information Systems (0032)

120 Introduction to Microcomputers..... 3

Economics (0082)

201 Principles of Economics I 3

Program Electives 10 Credit Hours

Students should select a minimum of 10 credit hours from the following courses or others as recommended by a College Advisor:

Business (0030)

203 Introductory Cost Accounting 3

204 Computer Applications in Accounting..... 1

205 Intermediate Accounting I 3

212 Business Law II 3

230 E-Business..... 3

231 Principles of Marketing..... 3

232 Fundamentals of International Business 3

241 Introduction to Finance..... 3

269 Principles of Management..... 3

Computer Information Systems (0032)

101 Computer Science 101..... 3

Economics (0082)

201 Principles of Economics I 3

202 Principles of Economics II..... 3

CPA PREPARATION-POST BACCALAUREATE

Advanced Certificate (0418)

The CPA Preparation–Post Baccalaureate program will provide 30 hours of accounting coursework with additional specific credits in business ethics, business communications, and research and analysis as required to sit the Uniform CPA examination.

For more info on the Advanced Certificate in CPA Preparation-Post Baccalaureate, please visit www.ccc.edu/programs/Pages/CPA-Preparation-Post-Baccalaureate-Advanced-Certificate.aspx

Required Program Core	33 Credit Hours
Business (0030) OR English (0035)	
284 Business Communications OR	3
105 Business Writing	3
Business (0030) OR Philosophy (0043)	
214 The Legal and Social Environment of Business OR	3
107 Ethics	3
Business (0030)	
181 Financial Accounting	4
182 Managerial Accounting.....	4
204 Computer Applications Intermediate Accounting WITH .	1
205 Intermediate Accounting	3
206 Auditing	3
207 Intermediate Accounting II	3
208 Federal Income Tax	3
211 Business Law OR	3
212 Business Law II.....	3
215 Corporate and Entity Federal Income Tax	3

Program Electives 3 Credit Hours

Students must select one course from the following:

Business (0030)	
180 Fundamentals of Accounting.....	3
203 Introduction to Cost Accounting	3
217 Nonprofit Accounting.....	3
218 Advanced Accounting	3
249 Independent Research.....	2
250 Computerized Accounting Systems	3
299 Special Topics.....	3

Total Program Credit Hours 36 Credit Hours

PROGRAM OFFERED AT: 

DIGITAL MARKETING AND SOCIAL MEDIA

Advanced Certificate (0426)

The purpose of the Digital Marketing and Social Media Advanced Certificate is to provide students with marketing management skills, so that they can obtain an entry-level position. Sample concepts to be cover will include: marketing data analytics, project management, digital media, social networking sites, recommender sites, reputation systems, user-generated concepts, social bookmarking and virtual worlds.

For more info on the Advanced Certificate in Digital Marketing and Social Media, please visit www.ccc.edu/programs/Pages/Digital-Marketing-and-Social-Media-Advanced-Certificate.aspx


Required Program Core	33 Credit Hours
English (0035)	
101 Composition I.....	3
Speech (0095)	
101 Fundamentals of Speech Communication.....	3
Computer Information Systems (0032)	
120 Introduction to Microcomputers.....	3
181 Web Development I/Basic Web Technologies.....	3
Business (0030)	
111 Introduction to Business	3
213 Data Visualization and Presentation for Business	3
231 Marketing.....	3
259 Introduction to Project Management.....	3
260 Digital Marketing and Social Media.....	3
284 Business Communications.....	3
Digital Multimedia Design (0138)	
168 Computer Art I	3

Program Electives 3 Credit Hours

Business (0030) OR Philosophy (0043)	
214 The Legal and Social Environment of Business OR	3
107 Ethics.....	3

Total Program Credit Hours 36 Credit Hours

PROGRAM OFFERED AT: 

HUMAN RESOURCESPROGRAM OFFERED AT: **Basic Certificate (0419)**

The Basic Certificate program in Human Resources is designed to provide students who have little or no formal business knowledge of the Human Resources industry with introductory information and understand of business, human resources, and employment law. Students will gain knowledge of business operations, business and human capital management, benefits and compensation, workforce planning, organizational development, employment law, and soft skills.

For more info on the Basic Certificate in Human Resources, please visit

www.ccc.edu/programs/Pages/Human-Resources-Basic-Certificate.aspx

Required Program Core 21 Credit Hours

Business (0030)	
111 Introduction to Business.....	3
211 Business Law.....	3
269 Principles of Management.....	3
271 Human Resources Management	3
273 Organizational Behavior.....	3
278 Compensation and Benefits.....	3
279 Human Resources Planning and Staffing	3

Program Electives 3 Credit Hours

Business (0030)	
214 The Legal and Social Environment of Business OR	3
284 Business Communications.....	3

Total Program Credit Hours 24 Credit HoursPROGRAM OFFERED AT: **LIBRARY TECHNICAL ASSISTANT****Basic Certificate (0330)**

For more info on the Basic Certificate in Library Technical Assistant, please visit www.ccc.edu/programs/Pages/Library-Technical-Assistant-Basic-Certificate.aspx

Required Program Core 12 Credit Hours

Library Technology (0050)	
101 Introduction to Library Procedures.....	3
102 Multimedia Technologies	3
201 Library Public Service	3
203 Materials Preparation Procedures.....	3

Total Program Credit Hours 12 Credit Hours**LIBRARY TECHNICAL ASSISTANT****Associate in Applied Science (0303)**

The Associate in Applied Science degree program in Library Technical Assistant can lead to employment as an assistant to a professional librarian in cataloging periodicals, multimedia, or information services of public, private, industrial, or school libraries.

For more info on the Associate in Applied Science degree in Library Technical Assistant, please visit

www.ccc.edu/programs/Pages/Library-Technical-Assistant-Associate-in-Applied-Science.aspx

General Education Coursework 18 Credit Hours

English (0035)	
101 Composition I.....	3
Additional General Education Courses	15

Select an additional 15 hours of general education courses from Communications, Fine Arts & Humanities, Mathematics, Social & Behavioral Sciences, or Physical & Life Sciences.

At least one course must meet the Human Diversity (HD) requirement.

Required Program Core 18 Credit Hours

Library Technology (0050)	
101 Introduction to Library Procedures.....	3
102 Multimedia Technologies	3
201 Library Public Service	3
203 Materials Preparation Procedures	3
Computer Information Systems (0032)	
120 Introduction to Microcomputers.....	3
158 Web Development I	3

Required Work-Based Learning Courses 6 Credit Hours

Library Technology (0050)	
125 Learning Resource/Library Practicum.....	6

Program Electives 18 Credit Hours

Students should meet with a College Advisor for selection of elective courses.

Total Program Credit Hours 60 Credit HoursPROGRAM OFFERED AT: 

MANAGEMENT/MARKETING

Basic Certificate (0023)*

**Beginning Summer 2016, this program is no longer accepting new students at DA, HW, KK, MX, OH, or WR.. Please refer to CCC's other Business offerings.*

For more info on the Basic Certificate in Management/Marketing, please visit www.ccc.edu/programs/Pages/Management---Marketing-Basic-Certificate.aspx

Required Program Core 18 Credit Hours

- Business (0030)
 - 111 Introduction to Business.....3
- Business (0030) **OR** Mathematics (0045)
 - 141 Business Mathematics **OR**.....3
 - 118 General Education Mathematics **OR** higher.....4

Students must select a minimum of 9 credit hours from the following courses:

- Business (0030)
 - 231 Marketing3
 - 236 Advertising3
 - 237 Selling3
 - 258 Small Business3
 - 269 Principles of Management.....3
- English (0035) **OR** Speech (0095)
 - 101 Composition I **OR**.....3
 - 101 Fundamentals of Speech Communication **OR**3
 - 160 Business and Professional Speech.....3

Total Program Credit Hours 18 Credit Hours

PROGRAM OFFERED AT:      

MANAGEMENT/MARKETING

Advanced Certificate (0022)*

**Beginning Summer 2016, this program is no longer accepting new students. Please refer to CCC's other Business offerings.*

For more info on the AC in Management/Marketing, please visit www.ccc.edu/programs/Pages/Management---Marketing-Advanced-Certificate.aspx

Required Program Core 35 Credit Hours

- Business (0030) **OR** Mathematics (0045)
 - 141 Business Mathematics **OR**.....3
 - 118 General Education Mathematics **OR** higher.....4
- Business (0030)
 - 111 Introduction to Business.....3
 - 181 Financial Accounting.....4

- 182 Managerial Accounting 4
- 211 Business Law I **OR** 3
- 212 Business Law II **OR** 3
- 214 The Legal and Social Environment of Business..... 3
- 231 Marketing..... 3
- 241 Introduction to Finance 3
- 269 Principles of Management 3
- Computer Information Systems (0032)
 - 120 Introduction to Microcomputers..... 3
- English (0035)
 - 101 Composition I..... 3
- Speech (0095)
 - 101 Fundamentals of Speech Communication 3

Total Program Credit Hours 35 Credit Hours

PROGRAM OFFERED AT:      

This program has been updated please see Addendum

MANAGEMENT/MARKETING

Associate in Applied Science (0021)*

**Beginning Summer 2016, this program is no longer accepting new students. Please refer to CCC's other Business offerings.*

The Associate in Applied Science degree program in Management/Marketing is the study of basic business skills along with more in-depth study in a chosen field such as management, marketing, or entrepreneurship. Completion of the program can lead to employment as assistant, trainee, supervisor, or manager in manufacturing, merchandising, service firms, or government service. The program also prepares graduates to start a business or improve the operations of a business that currently exists.

For more info on the Associate in Applied Science degree in Management/Marketing, please visit www.ccc.edu/programs/Pages/Management--Marketing-Associate-in-Applied-Science.aspx

General Education Coursework 15 Credit Hours

- English (0035)
 - 101 Composition I3
 - Fine Arts and Humanities course3
 - Mathematics or Science course3
 - Social and Behavioral Sciences courses.....6
- At least one course must meet the Human Diversity (HD) requirement.*

Required Program Core 29 Credit Hours

- Business (0030) **OR** Mathematics (0045)
 - 141 Business Mathematics **OR**3
 - 118 General Education Mathematics **OR** higher.....4
- Business (0030)
 - 111 Introduction to Business.....3
 - 181 Financial Accounting.....4
 - 182 Managerial Accounting.....4
 - 211 Business Law I **OR**.....3
 - 212 Business Law II **OR**.....3
 - 214 The Legal and Social Environment of Business.....3
 - 231 Marketing3
 - 241 Introduction to Finance.....3
 - 269 Principles of Management.....3
- Computer Information Systems (0032)
 - 120 Introduction to Microcomputers.....3

Program Electives 18 Credit Hours

Students must select 18 credit hours from the following courses:

- Cooperative Work Experience (0008)
 - 105 Business Technologies CWE..... 3
 - 205 Business Technologies CWE..... 3
- Business (0030)
 - 161 Principles of Banking Operations..... 3
 - 180 Fundamentals of Accounting 3
 - 203 Introduction to Cost Accounting 3
 - 204 Computer Applications Inter. Accounting..... 1
 - 206 Auditing..... 3
 - 208 Federal Income Tax..... 3
 - 216 Entrepreneurship 3
 - 213 Data Visualization and Presentation for Business 3
 - 221 Insurance..... 3
 - 232 Fundamentals of International Business 3
 - 250 Computerized Accounting Systems 3
 - 263 Property & Liability Insurance 3
 - 264 Personal Insurance..... 3
 - 265 Commercial Insurance..... 3
 - 271 Human Resources Management 3
 - 273 Organizational Behavior 3
 - 278 Compensation & Benefits Administration..... 3
 - 279 Human Resource Planning & Staffing 3
- Computer Information Systems (0032)
 - 101 Computer Science 101 3
 - 111 Computer Operations 3
 - 116 Operating Systems I 3
 - 123 Microcomputer Spreadsheets..... 3
 - 145 Database Management 3
 - 158 Web Development I 3
- Cyber Security (0162)
 - 102 Information Security Essentials..... 3
 - 231 Internetworking Security 3
- Networking Technologies (0165)
 - 101 Client Server Database I..... 3
 - 121 Internetworking I 3
 - 122 Internetworking II 3

Total Program Credit Hours 62 Credit Hours



This program has been updated please see Addendum

PARALEGAL

Associate in Applied Science (0304)

The Associate in Applied Science degree in Paralegal prepares students with the skills to become highly trained paralegals to meet the needs of corporations, law firms and offices, and other sectors where law-related work is performed. Program completion can lead to employment in any area where law-related work is conducted. Paralegals may not provide legal services directly to the public, except as permitted by law. The program is approved by the American Bar Association at Wright College.

For more info on the Associate in Applied Science degree in Paralegal, please visit www.ccc.edu/programs/Pages/Paralegal-Associate-in-Applied-Science.aspx

General Education Coursework 24 Credit Hours

English (0035)	
101 Composition I	3
102 Composition II	3
Speech (0095)	
101 Fundamentals of Speech Communication	3
Fine Arts & Humanities courses	
Social & Behavioral Sciences courses	
General Education Human Diversity course.....	

Required Program Core 30 Credit Hours

Computer Information Systems (0032)	
120 Intro to Microcomputers	3
Business (0030)	
147 Introduction to Paralegal Studies	3
148 Civil Litigation.....	3
149 Family Law.....	3
150 Legal Research and Writing I.....	3
219 Real Estate Law for the Paralegal.....	3
220 Criminal Law for the Paralegal	3
222 Business Law for the Paralegal.....	3
223 Tort Law	3
224 Wills, Trusts, and Probate.....	3
225 Legal Research and Writing II.....	3

Program Electives 6 Credit Hours

226 Internship for Paralegals OR	
240 Computers in the Law Office.....	3

Students must select a minimum of 3 credit hours from the following courses:

Business (0030)

227 Elder Law.....	3
228 Environmental Law for the Paralegal	3
229 Immigration Law	3
238 Legal Ethics	3
239 Business Organization and Agency Law	3
226 Internship for Paralegals OR	
240 Computers in the Law Office.....	3

Total Program Credit Hours 60 Credit Hours

PROGRAM OFFERED AT:  

REAL ESTATE BROKER PRE-LICENSURE

Basic Certificate (0833)*

*Beginning Summer 2016, this program is no longer accepting new students. Please refer to CCC's other Business offerings.

The Real Estate Broker program meets the required course content and hours for the Illinois Department of Financial and Professional Regulations (IDFPR). Students who successfully complete the Real Estate Broker coursework and hours are eligible to apply for the State licensure exam. The program is for individuals without any prior IDFPR Real Estate license.

For more info on the Basic Certificate in Real Estate Broker Pre-Licensure, please visit www.ccc.edu/programs/Pages/Real-Estate-Broker-Pre-Licensure-Basic-Certificate.aspx

Required Program Core 7 Credit Hours

Short-Term Business/Professional Services (0502)	
238 Illinois Real Estate Broker Pre-License.....	6
239 Illinois Broker Applied Real Estate Principles: Interactive.....	1

Total Program Credit Hours 7 Credit Hours

PROGRAM OFFERED AT:  



CONSTRUCTION TECHNOLOGY

Launch a career in the fast-growing Construction Technology industry and you could use the latest technologies to design and engineer blueprints for new buildings, install heating and plumbing into homes or office buildings, or manage and coordinate construction projects. City Colleges works with industry leaders to ensure our programs lead to careers.

City Colleges offers transfer degrees—Associate in Arts (AA) and Associate in Science (AS)—that make transferring to a four-year college or university easy and convenient. There are several transfer pathways at CCC, which are suggested coursework that align with the area of study you are interested in. If a Focus Area offers any transfer pathways, they will be denoted in the below chart by the letter pairings AA or AS. Each pathway is hyperlinked to their Program Finder page where their semester map can be found.

To learn more about Construction Technology at City Colleges of Chicago, visit www.ccc.edu/construction.

DEGREES AND CERTIFICATES

	BASIC CERTIFICATE	ADVANCED CERTIFICATE	ASSOCIATE DEGREE
AIR CONDITIONING AND REFRIGERATION			
Air Conditioning and Refrigeration		●	AAS
Air Conditioning - Commercial Refrigeration	●		
Air Conditioning - Domestic Refrigeration	●		
Air Conditioning - Heating	●		
BUILDING TRADES			
Bricklayer	●		
Building Energy Technologies	●		
Combination Welder	●		
Concrete Masonry	●		
Construction Carpentry	●		
Construction Management			AAS
Plumbing and Fire Protection	●		
INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS (IBEW)			
Communications Technology	●	●	AAS
Electrical Construction Technology	●	●	AAS
UTILITIES			
Electrical Line Worker (Overhead)		●	
Gas Utility Worker		●	

● This program is offered and accepting new students.

AIR CONDITIONING - COMMERCIAL REFRIGERATION

Basic Certificate (0153)

The Basic Certificate in Commercial Refrigeration studies the design, selection, maintenance, testing and installation of commercial refrigeration systems, and business skills.

For more info on the Basic Certificate in Air Conditioning–Commercial Refrigeration, please visit:
www.ccc.edu/programs/Pages/Air-Conditioning---Commercial-Refrigeration-Basic-Certificate.aspx

Required Program Core 17 Credit Hours

Air Conditioning (0094)	
102 Introduction Air Conditioning II	3
105 Owner-Contractor Management.....	3
151 Commercial Refrigeration	3
157 Analysis Laboratory.....	2
158 Commercial Refrigeration Laboratory	2
Mathematics (0045)	
107 Mathematics for Technicians I	4
Total Program Credit Hours	17 Credit Hours

PROGRAM OFFERED AT: 

AIR CONDITIONING - DOMESTIC REFRIGERATION

Basic Certificate (0177)


The Basic Certificate in Domestic Refrigeration studies the design, selection, maintenance, testing and installation of residential refrigeration systems.

For more info on the Basic Certificate in Air Conditioning–Domestic Refrigeration, please visit:
www.ccc.edu/programs/Pages/Air-Conditioning---Domestic-Refrigeration-Basic-Certificate.aspx

Required Program Core 17 Credit Hours

Air Conditioning (0094)	
101 Introduction Air Conditioning I.....	3
102 Introduction Air Conditioning II.....	3
120 Introductory Laboratory.....	2
150 Introduction to Refrigeration.....	3
155 Refrigeration Laboratory	2
Mathematics (0045)	
107 Mathematics for Technicians I	4

Total Program Credit Hours 17 Credit Hours

PROGRAM OFFERED AT: 

AIR CONDITIONING- HEATING

Basic Certificate (0178)

The Basic Certificate in Heating studies the design, selection, maintenance, testing and installation of residential, commercial Heating systems, and business skills.

For more info on the Basic Certificate in Air Conditioning–Heating, please visit:
www.ccc.edu/programs/Pages/Air-Conditioning---Heating-Basic-Certificate.aspx

Required Program Core 18 Credit Hours

Air Conditioning (0094)	
101 Introduction Air Conditioning I.....	3
103 Duct Design and Layout	3
105 Owner-Contractor Management	3
160 Introduction to Principles of Heating	3
165 Heating Laboratory	2
Mathematics (0045)	
107 Mathematics for Technicians I	4
Total Program Credit Hours	18 Credit Hours

PROGRAM OFFERED AT: 

AIR CONDITIONING AND REFRIGERATION

Advanced Certificate (0118)

The Advanced Certificate program in Air Conditioning and Refrigeration studies the design, selection, maintenance, testing and installation of residential and commercial air conditioning , refrigeration , heating, and ventilation systems with emphasis on business skills. No General Education or elective courses are required for this program.

For more info on the Advanced Certificate in Air Conditioning, please visit www.ccc.edu/programs/Pages/Air-Conditioning-and-Refrigeration-Advanced-Certificate.aspx

Required Program Core 36 Credit Hours

Air Conditioning (0094)	
101 Introduction Air Conditioning I	3
102 Introduction Air Conditioning II	3
103 Duct Design and Layout.....	3
104 Equipment and Systems Controls.....	3
120 Introductory Laboratory	2
150 Introduction to Refrigeration.....	3
151 Commercial Refrigeration	3
155 Refrigeration Laboratory	2
158 Commercial Refrigeration Laboratory	2
160 Introduction to Principles of Heating.....	3
165 Heating Laboratory.....	2
Engineering (0034)	
115 Engineering Communications Blueprint Reading.....	3
Mathematics (0045)	
107 Mathematics for Technicians I	4

Total Program Credit Hours 36 Credit Hours

PROGRAM OFFERED AT: 

AIR CONDITIONING AND REFRIGERATION

Associate in Applied Science (0117)

The Associate in Applied Science degree in Air Conditioning and Refrigeration studies the design, selection, maintenance, testing and installation of residential and commercial air conditioning, refrigeration and heating and ventilation systems, and business skills. The degree can lead to self-employment or employment as an assistant to engineers in an industrial or business facility, air conditioning and refrigeration mechanic, furnace installer, oil burner mechanic or a gas furnace mechanic with cooling and heating dealers, contractors, or utility companies.

For more info on the Associate in Applied Science degree in Air Conditioning, please visit www.ccc.edu/programs/Pages/Air-Conditioning-and-Refrigeration-Associate-in-Applied-Science.aspx

General Education Coursework 15 Credit Hours
English (0035)

101 Composition I	3
Additional General Education Courses.....	12
<i>Select an additional 12 hours of general education courses from Communications, Fine Arts & Humanities, Mathematics, Social & Behavioral Sciences, or Physical & Life Sciences.</i>	

At least one course must meet the Human Diversity (HD) requirement

Required Program Core 40 Credit Hours

Air Conditioning (0094)	
101 Introduction Air Conditioning I.....	3
102 Introduction Air Conditioning II.....	3
103 Duct Design and Layout	3
104 Equipment and Systems Controls.....	3
105 Owner-Contractor Management	3
120 Introductory Laboratory.....	2
150 Introduction to Refrigeration.....	3
151 Commercial Refrigeration	3
155 Refrigeration Laboratory	2
158 Commercial Refrigeration Laboratory	2
160 Introduction to Principles of Heating	3
165 Heating Laboratory	2
Engineering (0034)	
115 Engineering Communications Blueprint Reading.....	3
Mathematics (0045)	
107 Mathematics for Technicians I OR advanced Mathematics course	5

Program Electives 7 Credit Hours

Students must select a minimum of 7 credit hours from the following courses:

Air Conditioning (0094)	
106 Sheet Metal I.....	3
107 Welding I.....	3
121 Advanced Laboratory.....	2
156 Domestic Refrigeration Laboratory	2
204 Advanced Control Systems.....	3

Total Program Credit Hours 62 Credit Hours

PROGRAM OFFERED AT: 

BRICKLAYER

Basic Certificate (0760)

The Basic Certificate program for Bricklayer is designed to provide students with an understanding of the bricklaying trade. Students will receive hands-on training in the building of solid walls and chimneys using bricks, blocks, and a range of bonds, as well as learning basic blueprint reading. Completion of this degree will prepare students for a career as a Stonemason.

For more info on the Basic Certificate in Bricklayer, please visit www.ccc.edu/programs/Pages/Bricklayer-Basic-Certificate.aspx.

Required Program Core 20 Credit Hours

Technology 332 (0332)

409 Construction Safety.....	1
428 Mortar.....	3
429 Basic Mathematics and Specifications.....	2
442 Introduction to Bricklaying.....	3
443 Bricklaying Tools and Equipment.....	2
444 Bricklaying Installation Procedures.....	3
448 Vocational Physical Training I.....	1
462 Vocational Physical Training II.....	1
463 Vocational Physical Training III.....	1
767 Blueprint Reading.....	2

Business and Commercial Tech TC1 (0330)

532 Basic Computer Technology.....	1
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Total Program Credit Hours 20 Credit Hours

PROGRAM OFFERED AT: 

BUILDING ENERGY TECHNOLOGIES

Basic Certificate (0159)

The Basic Certificate program in Building Energy Technologies is designed for students seeking expertise in the practical application of energy efficiency and renewable energy systems in the building construction industries. An emphasis on integration into traditional building construction and operation allows the graduate to effectively coordinate with architects, engineers, and contractors on the installation and operation of these systems.

For more info on the Basic Certificate in Building Energy Technologies, please visit www.ccc.edu/programs/Pages/Building-Energy-Technologies-Basic-Certificate.aspx

Required Program Core 21 Credit Hours

Environmental Technology (0027)

104 Energy Systems Fundamentals.....	3
114 Renewable Energy Systems.....	4
144 Building Systems Maintenance.....	4
204 Residential Energy Systems.....	3
214 Institutional Energy Systems.....	3
244 Energy Equipment Troubleshooting.....	4

Total Program Credit Hours 21 Credit Hours

PROGRAM OFFERED AT: 

COMBINATION WELDER

Basic Certificate (0758)

The Basic Certificate program in Combination Welder is designed to provide students with training in basic welding skills in a shop setting. In addition to learning welding mathematics, blueprint reading, and layout and fabrication, students are also introduced to the basic fundamentals of job safety and ethics. Graduates of this program are qualified for entry level employment as an ARC, MIG, or TIG welder.

For more info on the Basic Certificate in Combination Welder, please visit [www.ccc.edu/programs/Pages/Welder-\(Combination\)-Basic-Certificate.aspx](http://www.ccc.edu/programs/Pages/Welder-(Combination)-Basic-Certificate.aspx)

Required Program Core 20 Credit Hours

Technology 332 (0332)

409 Construction Safety.....	1
448 Vocational Physical Training I.....	1
462 Vocational Physical Training II.....	1
463 Vocational Physical Training III.....	1
509 Intro to Basic ARC Welding.....	3
510 Blueprint, Layout and Fabrication.....	2
518 Manufacturing Materials & Processes.....	1
520 ARC Welding.....	4
526 Welding Mathematics I.....	1
530 Advanced Welding.....	4

Business and Commercial Tech TC1 (0330)

532 Basic Computer Technology.....	1
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Total Program Credit Hours 20 Credit Hours

PROGRAM OFFERED AT: 

COMMUNICATIONS TECHNOLOGY

Basic Certificate (0704)

The Basic Certificate program in Communications Technology prepares students to become an apprentice under the tutelage of a union electrical contractor. Communications Journeymen and Apprentices install and maintain structured wiring and electronic systems in residential, commercial, and industrial settings.

For more info on the Basic Certificate in Communications Technology, please visit www.ccc.edu/programs/Pages/Communications-Technology-Basic-Certificate.aspx

Required Program Core	20 Credit Hours
IBEW (0432)	
704 Construction Technology	4.5
705 Print Reading I	3.5
714 Technical Mathematics I	3
716 Electronics	4.5
717 Structured Wiring	4.5
Total Program Credit Hours	20 Credit Hours

PROGRAM OFFERED AT: 

COMMUNICATIONS TECHNOLOGY

Advanced Certificate (0709)

The Advanced Certificate program in Communications Technology prepares students to become an apprentice under the tutelage of a union electrical contractor. Communications Journeyman and Apprentices install and maintain structured wiring and electronic systems in the residential, commercial, and industrial settings.

For more info on the Advanced Certificate in Communications Technology, please visit www.ccc.edu/programs/Pages/Communications-Technology-Advanced-Certificate.aspx

Required Program Core	36.5 Credit Hours
IBEW (0432)	
704 Construction Technology	4.5
705 Print Reading I	3.5
709 Print Reading II	3
714 Technical Mathematics I	3
715 Technical Mathematics II	3
716 Electronics	4.5
717 Structured Wiring	4.5
718 Integrated System I	3.5
721 Fiber Optics.....	3.5

725 Low Voltage Systems	3.5
Total Program Credit Hours	36.5 Credit Hours

PROGRAM OFFERED AT: 

COMMUNICATIONS TECHNOLOGY

Associate in Applied Science (0750)

The Associate in Applied Science degree program in Communications Technology is a cooperative effort between Richard J. Daley College and the Electrical Joint Apprenticeship and Training Trust (EJATT) which is made up of the National Electrical Contractors Association (NECA) and the International Brotherhood of Electrical Workers (IBEW) Local Union 134. Through the joint effort of the college and EJATT, the program is dedicated to consistently provide state-of-the art education and training to apprentices, and through them to the residential and commercial building contractors in the Chicagoland area. This commitment to both the individual and industry requires not only providing electricians for today's market, but also for tomorrow's market and future technologies.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more info on the Associate in Applied Science degree in Communications Technology, please visit www.ccc.edu/programs/Pages/Communications-Technology-Associate-in-Applied-Science.aspx

General Education Coursework 15 Credit Hours

English (0035)	
101 Composition I	3
History (0085)	
113 United States Labor History	3
Psychology (0087)	
206 Business and Industrial Psychology.....	3
210 Principles of Supervisory Psychology	3
IBEW (0432)	
714 Technical Mathematics I	3

Required Program Core 50 Credit Hours

IBEW (0432)	
704 Construction Technology	4.5
705 Print Reading I	3.5
707 Fire Alarm Systems.....	3.5
709 Print Reading II	3
711 Communications	4
715 Technical Mathematics II	3
716 Electronics	4.5
717 Structured Wiring	4.5
718 Integrated System I.....	3.5
719 Integrated System II.....	4.5
720 Communications Systems Verification.....	3.5
721 Fiber Optics.....	3.5

722 Computer Networking	4.5
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At least one course must meet the Human Diversity (HD) requirement.

Total Program Credit Hours 65 Credit Hours

PROGRAM OFFERED AT: 

CONCRETE MASONRY

Basic Certificate (0759)

The Basic Certificate in Concrete Masonry includes orientation to the cement masonry trade, industry terminology and blueprint reading. Hands-on training includes the proper use and maintenance of tools and instruction in job safety procedures. Students will learn the basic ingredients of concrete, rodding placement and floating, basic set-up and form work, and clean-up.

For more info on the Basic Certificate in Concrete Masonry, please visit www.ccc.edu/programs/Pages/Concrete-Masonry-Basic-Certificate.aspx

Required Program Core 20 Credit Hours

Technology 332 (0332)	
409 Construction Safety	1
426 Introduction to Concrete Masonry.....	3
427 Masonry Tools and Equipment	2
428 Mortar	3
429 Basic Mathematics and Specifications.....	2
430 Masonry Installation Procedures.....	3
448 Vocational Physical Training I.....	1
462 Vocational Physical Training II.....	1
463 Vocational Physical Training III.....	1
767 Blueprint Reading	2
Business and Commercial Tech TC1 (0330)	
532 Basic Computer Technology.....	1

Total Program Credit Hours 20 Credit Hours

PROGRAM OFFERED AT: 

CONSTRUCTION CARPENTRY

Basic Certificate (0775)

The Basic Certificate in Construction Carpentry prepares students for an entry level apprentice position with a construction contractor. The program provides instruction in tool safety and usage, construction materials, work site safety, blueprint reading, and mathematical concepts. Course content also includes an introduction to the trades and basic ARC welding. Theory and practical “hands-on” application are emphasized throughout the program. Students will receive the OSHA Construction Safety and Health 10-hour Certification and Scaffold Certification upon successful completion of the program.

For more info on the Basic Certificate in Construction Carpentry, please visit www.ccc.edu/programs/Pages/Construction-Carpentry-Basic-Certificate.aspx

Required Program Core	20 Credit Hours
Technology 332 (0332)	
409 Construction Safety.....	1
410 Interior Construction.....	4
429 Basic Mathematics and Specifications.....	2
432 Basic ARC Welding.....	1
448 Vocational Physical Training I.....	1
462 Vocational Physical Training II.....	1
463 Vocational Physical Training III.....	1
581 Concrete Framing.....	2
582 Residential Carpentry.....	2
583 Basic Hand Tools.....	2
767 Blueprint Reading.....	2
Business and Commercial Tech TC1 (0330)	
532 Basic Computer Technology.....	1
Total Program Credit Hours	20 Credit Hours

PROGRAM OFFERED AT: 

CONSTRUCTION MANAGEMENT

Associate in Applied Science (0375)

The Associate in Applied Science degree program in Construction Management prepares students to receive the education, training, and business knowledge necessary for employment in the construction industry. The program offers classroom and lab experiences led by instructors who are experienced as superintendents or project managers for some of the largest construction firms in the country.

For more info on the Associate in Applied Science in Construction Management, please visit www.ccc.edu/programs/Pages/Construction-Management-Associate-in-Applied-Science.aspx

General Education Coursework	15 Credit Hours
English (0035)	
101 Composition I.....	3
Additional General Education Courses.....	12
<i>Select an additional 12 hours of general education courses from Communications, Fine Arts & Humanities, Mathematics, Social & Behavioral Sciences, or Physical & Life Sciences.</i>	

At least one course must meet the Human Diversity (HD) requirement

Required Program Core	41 Credit Hours
Business (0030)	
181 Financial Accounting.....	4
269 Principles of Management.....	3
Computer Information Systems (0032)	
120 Introduction to Microcomputers.....	3
Construction Management (0432)	
601 Introduction to Construction.....	2
602 Methods of Building Construction.....	3
603 Building Materials and Testing.....	3
604 Blueprint and Specifications.....	3
605 Construction and Cost Estimating.....	3
606 Construction and Contracting Specifications.....	3
607 Construction Scheduling/Management.....	3
608 Project Management.....	3
609 Construction Safety II.....	3
English (0035)	
107 Report Writing.....	3
Technology 332 (0332)	
449 Professional Development.....	2

Program Electives 9 Credit Hours
Students should meet with a College Advisor for selection of elective courses.

Total Program Credit Hours	65 Credit Hours
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PROGRAM OFFERED AT: 

ELECTRICAL CONSTRUCTION TECHNOLOGY

Basic Certificate (0703)

The Basic Certificate program in Electrical Construction Technology prepares students to become an apprentice under the tutelage of a union electrical contractor. Electricians assemble, install, maintain, and test electrical equipment and wiring systems in residential, commercial, and industrial settings.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more info on the Basic Certificate in Electrical Construction Technology, please visit www.ccc.edu/programs/Pages/Electrical-Construction-Technology-Basic-Certificate.aspx.

706 Conduit Bending II	3.5
708 Motor Control Systems	3.5
709 Print Reading II	3
714 Technical Mathematics I	3
715 Technical Mathematics II	3
725 Low Voltage Systems	3.5

Total Program Credit Hours	35.5 Credit Hours
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PROGRAM OFFERED AT:



Required Program Core	19 Credit Hours
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IBEW (0432)

702 Electrical Circuitry	4.5
703 Conduit Bending I.....	3.5
704 Construction Technology	4.5
705 Print Reading I	3.5
714 Technical Mathematics I	3

Total Program Credit Hours	19 Credit Hours
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PROGRAM OFFERED AT:



ELECTRICAL CONSTRUCTION TECHNOLOGY

Advanced Certificate (0721)

The Advanced Certificate program in Electrical Construction Technology prepares students to become an apprentice under the tutelage of a union electrical contractor. Electricians assemble, install, maintain, and test electrical equipment and wiring systems in residential, commercial, and industrial settings.

For more info on the Advanced Certificate in Electrical Construction Technology, please visit www.ccc.edu/programs/Pages/Electrical-Construction-Technology-Advanced-Certificate.aspx.

Required Program Core	35.5 Credit Hours
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IBEW (0432)

702 Electrical Circuitry	4.5
703 Conduit Bending I.....	3.5
704 Construction Technology	4.5
705 Print Reading I	3.5

ELECTRICAL CONSTRUCTION TECHNOLOGY

At least one course must meet the Human Diversity (HD) requirement.

Associate in Applied Science (0752)

Total Program Credit Hours 65 Credit Hours

PROGRAM OFFERED AT: 

The Associate in Applied Science degree program in Electrical Construction Technology is a cooperative effort between Richard J. Daley College and the Electrical Joint Apprenticeship and Training Trust (EJATT) which is made up of the National Electrical Contractors Association (NECA) and the International Brotherhood of Electrical Workers (IBEW) Local Union 134. Through the joint effort of the college and EJATT, the program is dedicated to consistently providing state-of-the art education and training to apprentices, and through them to the residential and commercial building contractors in the Chicagoland area. This commitment to both the individual and industry requires not only providing electricians for today’s market, but also looking toward tomorrow’s market and future technologies.

For more info on the Associate in Applied Science in Electrical Construction Technology, please visit www.ccc.edu/programs/Pages/Electrical-Construction-Technology-Associate-in-Applied-Science.aspx

General Education Coursework 15 Credit Hours

- English (0035)
 - 101 Composition I3
- History (0085)
 - 113 United States Labor History3
- Psychology (0087)
 - 206 Business and Industrial Psychology3
 - 210 Principles of Supervisory Psychology3
- IBEW (0432)
 - 714 Technical Mathematics I3

Required Program Core 50 Credit Hours

- IBEW (0432)
 - 702 Electrical Circuitry4.5
 - 703 Conduit Bending I.....3.5
 - 704 Construction Technology4.5
 - 705 Print Reading I3.5
 - 706 Conduit Bending II.....3.5
 - 707 Fire Alarm Systems.....3.5
 - 708 Motor Control Systems.....3.5
 - 709 Print Reading II3
 - 710 Programmable Control.....4.5
 - 711 Communications4
 - 712 HVAC Systems4.5
 - 713 Instrumentation4.5
 - 715 Technical Mathematics II3

GAS UTILITY WORKER

Advanced Certificate (0749)

The Advanced Certificate program in Gas Utility Worker consists of general education courses and core courses that feature specific competencies in the safe construction and operation of natural gas distribution systems. The program takes a student through a series of basic and advanced skill sets designed to enhance on-the-job performance and to quickly bring the student to the level of a full-functioning, skilled worker once employed. Upon completion, students who graduate from this program will be prepared to work as a utility worker in the gas utility industry.

For more info on the Advanced Certificate in Gas Utility Worker, please visit www.ccc.edu/programs/Pages/Gas-Utility-Worker-Advanced-Certificate.aspx.

Required Program Core 50 Credit Hours

Speech (0095)	
101 Fundamentals of Speech Communication	3
History (0085)	
113 United States Labor History	3
Computer Information Systems (0032)	
120 Introduction to Microcomputers.....	3
English (0035)	
107 Report Writing	3
Mathematics (0045)	
107 Mathematics for Technicians I	3
Technology 332 (0332)	
434 Introduction to Plumbing	3
435 Plumbing Tools and Equipment	2
448 Vocational Physical Training I.....	1
449 Professional Development	2
452 Basic Electrical Theory.....	3
462 Vocational Physical Training II.....	1
463 Vocational Physical Training III.....	1
503 Gas Utility Training I.....	6
504 Gas Utility Training II.....	6
505 Gas Utility Training III.....	3
506 Gas Utility Training IV	4
Construction Management (0432)	
609 Construction Safety II.....	3

Total Program Credit Hours 50 Credit Hours

PROGRAM OFFERED AT: 

OVERHEAD ELECTRICAL LINE WORKER

Advanced Certificate (0766)

The Advanced Certificate program in Electrical Line Worker (Overhead) is structured to meet the current need for overhead electricians/electrical line workers in the electrical power industry.

For more info on the Advanced Certificate in Electrical Line Worker (Overhead), please visit [www.ccc.edu/programs/Pages/Electrical-Line-Worker-\(Overhead\)-Advance-Certificate.aspx](http://www.ccc.edu/programs/Pages/Electrical-Line-Worker-(Overhead)-Advance-Certificate.aspx).

Required Program Core 30 Credit Hours

Technology 332 (0332)	
448 Vocational Physical Training I.....	1
449 Professional Development.....	2
452 Basic Electrical Theory	3
453 Overhead Techniques and Projects I.....	4
458 Overhead Techniques and Projects II.....	4
459 Construction Safety and Rescue	3
462 Vocational Physical Training II.....	1
463 Vocational Physical Training III.....	1
464 Power Equipment Operations I.....	2.5
470 Power Equipment Operations II.....	2.5
English (0035)	
197 Communications Skills.....	3
Mathematics (0045)	
107 Technical Mathematics	3

Total Program Credit Hours 30 Credit Hours

PROGRAM OFFERED AT: 

PLUMBING AND FIRE PROTECTION**Basic Certificate (0753)**

The Basic Certificate program in Plumbing and Fire Protection program is designed to introduce students to plumbing and sprinkler systems through theory and hands on work. Upon successful completion, graduates will be qualified to work as a plumber's assistant and or fitter assistant.

For more info on the Basic Certificate in Plumbing and Fire Protection, please visit www.ccc.edu/programs/Pages/Plumbing-and-Fire-Protection-Basic-Certificate.aspx

Required Program Core **20 Credit Hours****Technology 332 (0332)**

409 Construction Safety.....	1
432 Basic ARC Welding.....	1
434 Introduction to Plumbing	3
435 Plumbing Tools and Equipment	2
436 Plumbing Codes.....	1
437 Basic Plumbing Related Mathematics.....	1
438 Introduction to Fire Protection	3
439 Home Plumbing Systems.....	4
448 Vocational Physical Training I.....	1
462 Vocational Physical Training II.....	1
463 Vocational Physical Training III	1

Business and Commercial Tech TC1 (0330)

532 Basic Computer Technology	1
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Total Program Credit Hours **20 Credit Hours**

PROGRAM OFFERED AT: 



CULINARY ARTS AND HOSPITALITY

Skilled chefs, caterers and hospitality personnel are needed throughout Chicago to provide guests and diners with exceptional food and lodging. With a career in the fast-growing industry of Culinary Arts and Hospitality, you can successfully pursue your passion for cooking, baking, or organizing staff and events.

City Colleges offers transfer degrees—Associate in Arts (AA) and Associate in Science (AS)—that make transferring to a four-year college or university easy and convenient. There are several transfer pathways at CCC, which are suggested coursework that align with the area of study you are interested in. If a Focus Area offers any transfer pathways, they will be denoted in the below chart by the letter pairings AA or AS. Each pathway is hyperlinked to their Program Finder page where their semester map can be found.

To learn more about Culinary Arts and Hospitality at City Colleges of Chicago, visit www.ccc.edu/culinaryhospitality.

DEGREES AND CERTIFICATES

BAKING	BASIC CERTIFICATE	ADVANCED CERTIFICATE	ASSOCIATE DEGREE
Baking and Pastry Arts	●	●	AAS
L'art du Gâteau (Cake Decorating and Baking Program)	✘		
L'art de la Pâtisserie (Pastry and Baking Program)	✘		
CULINARY			
Culinary Arts	●	●	AAS
Food Sanitation	✘		
Food Sanitation Recertification	✘		
HOSPITALITY			
Hospitality Management		●	AAS

✘ This program is no longer accepting new students.

● This program is offered and accepting new students.

BAKING AND PASTRY ARTS

Basic Certificate (0367)

The Basic Certificate in Baking and Pastry Arts introduces students to the commercial baking environment, covering safety and sanitation skills and station setup, proper use and care of equipment, and baking and pastry terminology. The program is designed to provide the students with the opportunity to investigate and assess Baking and Pastry Arts as a possible career.

For more info on the Basic Certificate in Baking and Pastry Arts, please visit www.ccc.edu/programs/Pages/Baking-and-Pastry-Arts-Basic-Certificate.aspx.

775 Specialty Breads..... 4
776 Advanced Baking Principles 3

Total Program Credit Hours	37 Credit Hours
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PROGRAM OFFERED AT: 

Required Program Core 14 Credit Hours

Baking and Pastry (0330)

765 Introduction to Baking	3
766 Baking Safety and Sanitation	2
767 Baking Techniques.....	3
768 Pastry Techniques	3
769 Cookies and Tarts.....	3

Total Program Credit Hours	14 Credit Hours
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PROGRAM OFFERED AT: 

BAKING AND PASTRY ARTS

Advanced Certificate (0366)

The Advanced Certificate in Baking and Pastry Arts is a sequential program taught over three semesters and includes a majority of the core courses from the parent Baking and Pastry Arts AAS degree program.

For more info on the Advanced Certificate in Baking and Pastry Arts, please visit www.ccc.edu/programs/Pages/Baking-and-Pastry-Arts-Advanced-Certificate.aspx.

Required Program Core 37 Credit Hours

Baking and Pastry (0330)

765 Introduction to Baking	3
766 Baking Safety and Sanitation	2
767 Baking Techniques.....	3
768 Pastry Techniques	3
769 Cookies and Tarts.....	3
770 Basic and Classical Cakes.....	3
771 Special Occasion Cakes	3
772 Individual Pastries.....	3
773 Confectionary Arts.....	3
774 Hearth Breads and Rolls	4

BAKING AND PASTRY ARTS

Associate in Applied Science (0365)

The Associate in Applied Science degree program in Baking and Pastry Arts is a sequential learning program taught over four semesters. All semesters include lecture, discussion, demonstration and hands-on production that allow students to practice the techniques of Baking and Pastry production in a commercial bakeshop environment. This program includes production for restaurant and bakeshop sales, offering the student real-world experience in the field.

For more info on the Associate in Applied Science degree in Baking and Pastry Arts, please visit www.ccc.edu/programs/Pages/Baking-and-Pastry-Arts-Associate-in-Applied-Science.aspx.

General Education Coursework 15 Credit Hours
English (0035)

101 Composition I3

Additional General Education Courses 12

Select an additional 12 hours of general education courses from Communications, Fine Arts & Humanities, Mathematics, Social & Behavioral Sciences, or Physical & Life Sciences.

At least one course must meet the Human Diversity (HD) requirement

Required Program Core 46 Credit Hours

Baking and Pastry (0330)

765 Introduction to Baking3

766 Baking Safety and Sanitation2

767 Baking Techniques.....3

768 Pastry Techniques3

769 Cookies and Tarts3

770 Basic and Classical Cakes.....3

771 Special Occasion Cakes3

772 Individual Pastries.....3

773 Confectionary Arts.....3

774 Hearth Breads and Rolls4

775 Specialty Breads4

776 Advanced Baking Principles.....3

777 Chocolate and Confections3

778 Contemporary Desserts6

Total Program Credit Hours 61 Credit Hours

PROGRAM OFFERED AT: 

CULINARY ARTS

Basic Certificate (0364)

The Basic Certificate in the Culinary Arts curriculum introduces the student to the commercial kitchen environment by covering safety and sanitation procedures, basic mise en place including knife skills and station set-up, proper use and care of equipment, classical cooking terminology, standard cooking methods, stock preparation, and sauce production. This program is designed to give the student the opportunity to investigate and assess Culinary Arts as a possible career goal.

For more info on the Basic Certificate in Culinary Arts, please visit www.ccc.edu/programs/Pages/Culinary-Arts-Basic-Certificate.aspx.

Required Program Core 13 Credit Hours

Culinary (0330)

701 Introduction to Food Service 3

703 Food Sanitation and Safety..... 2

705 Chef's Training I: Section A 4

708 Chef's Training I: Section B 4

Total Program Credit Hours 13 Credit Hours

PROGRAM OFFERED AT: 

CULINARY ARTS

Advanced Certificate (0363)

The Advanced Certificate program in Culinary Arts is comprised of all courses included in the parent degree program with the exception of the general education classes and the advanced cooking course. The Advanced Certificate program focuses on advanced techniques and offers extensive practice utilizing contemporary and classical menus. Students will receive the ServSafe® Sanitation Certification and will be eligible for the City of Chicago and State of Illinois Sanitation certificates upon completion.

For more info on the Advanced Certificate in Culinary Arts, please visit www.ccc.edu/programs/Pages/Culinary-Arts-Advanced-Certificate.aspx.

Required Program Core 38 Credit Hours

Culinary (0330)	
701 Introduction to Food Service	3
703 Food Sanitation and Safety I.....	2
705 Chef's Training I: Section A.....	4
706 Introduction to Garde Manger	4
708 Chef's Training I: Section B.....	4
709 Advanced Garde Manger	4
710 Plant Based Cooking.....	4
714 Nutrition for Chefs	3
717 Food Service Technology	3
730 International Cooking	4
Hospitality Management (0330)	
724 Hospitality Management.....	3
Total Program Credit Hours	39 Credit Hours

PROGRAM OFFERED AT: 

CULINARY ARTS

Associate in Applied Science (0362)

The Associate in Applied Science degree program in Culinary Arts is a sequential learning program taught over four semesters. All semesters include lecture, discussion, demonstration and hands-on production that allow students to practice the techniques of food production in a commercial food service environment. The curriculum includes additional methods and techniques that will increase the student's repertoire of ethnic and classical menus. In addition, the coursework covers management skills, cost control, budgeting techniques, merchandising, business planning, resume writing and interviewing techniques. General education classes must be completed to satisfy the degree requirements. Students will receive the ServSafe® Sanitation Certification and will be eligible for the City of Chicago and State of Illinois Sanitation certificates upon completion.

For more info on the Associate in Applied Science degree in Culinary Arts, please visit www.ccc.edu/programs/Pages/Culinary-Arts-Associate-in-Applied-Science.aspx.

General Education Coursework 15 Credit Hours

English (0035)	
101 Composition I.....	3
Mathematics or Physical & Life Sciences course.....	3
Fine Arts & Humanities course.....	3
Humanities course	3
Social & Behavioral Sciences course.....	3
<i>One GE course must be HD</i>	

Required Program Core 49 Credit Hours

Culinary (0330)	
701 Introduction to Food Service	3
703 Food Sanitation and Safety I.....	2
705 Chef's Training I: Section A	4
706 Introduction to Garde Manger.....	4
708 Chef's Training I: Section B	4
709 Advanced Garde Manger.....	4
710 Plant Based Cooking	4
714 Nutrition for Chefs.....	3
717 Food Costing and Control.....	3
728 Restaurant Service	7
730 International Cooking.....	4
Hospitality Management (0330)	
724 Hospitality Management	3
860 Hospitality Internship	4

Total Program Credit Hours 64 Credit Hours

PROGRAM OFFERED AT: 

FOOD SANITATION

Basic Certificate (0253)*

**Beginning Summer 2018, this program is no longer accepting new students.*


The Basic Certificate in Food Sanitation is a partnership between City Colleges of Chicago and the Chicago Department of Public Health. The program offers training in food service sanitation in four languages: English, Spanish, Chinese, and Korean. This program prepares personnel from food establishments for certification and re-certification by the City of Chicago and the State of Illinois and also trains and certifies food vendors participating in outdoor summer festivals.

Required Program Core 2 Credit Hours

Food Service Administration (0038)

222 Food Service Sanitation2

Total Program Credit Hours 2 Credit Hours

PROGRAM OFFERED AT: 

FOOD SERVICE SANITATION/RECERTIFICATION

Basic Certificate (0891)*

**Beginning Summer 2018, this program is no longer accepting new students.*



The Food Sanitation Recertification certificate program offers training in food service sanitation in three languages (English, Spanish, Chinese/Cantonese/Mandarin) and prepares personnel from food establishments for “Certification” and “Recertification” by the City of Chicago and the State of Illinois. This program also trains and certifies food vendors participating in outdoor summer festivals.

Required Program Core 1 Credit Hour

Food Service Administration (0038)

103 Food Service Sanitation 1

Total Program Credit Hours 1 Credit Hour

PROGRAM OFFERED AT:  

HOSPITALITY MANAGEMENT

Advanced Certificate (0740)

The Advanced Certificate in Hospitality Management introduces students to the operations and functions of the restaurant and hotel industries from a service and management standpoint. Classes are lecture and lab based to give maximum exposure to the industry and will allow students the opportunity to interact in real-world settings. The curriculum has customer service as an underlying theme of all classes and the importance is

stressed throughout each and every class throughout the program. Coursework includes management skills, financial management, restaurant and hotel operational management, resume writing and interviewing techniques.

For more info on the Advanced Certificate in Hospitality Management, please visit www.ccc.edu/programs/Pages/Hospitality-Management-Advanced-Certificate.aspx.

Required Program Core 39 Credit Hours

Culinary (0330)

700 College Success with Hospitality Perspective..... 3

701 Introduction to Food Service I..... 3

703 Food Sanitation and Safety I..... 2

705 Chef Training I: Section A..... 4

708 Chef Training I: Section B..... 4

Hospitality Management (0330)

724 Hospitality Management 3

806 Customer Service Fundamentals..... 3

807 Hospitality Financial Management..... 3

808 Restaurant Operations..... 4

810 Bar and Beverage Management..... 3

812 Hotel and Lodging Operations 4

814 Hospitality Procurement..... 3

Total Program Credit Hours 39 Credit Hours

PROGRAM OFFERED AT: 

HOSPITALITY MANAGEMENT

Associate in Applied Science (0735)

The Associate in Applied Science degree in Hospitality Management continues to focus on building management skills and provides for jobs as guest service agents, front office supervisors, sales managers, event planners, hotel managers, food and beverage managers, assistant food and beverage directors, food and beverage directors, beverage managers, guest services managers, and directors of catering.

For more info on the Associate in Applied Science degree in Hospitality Management, please visit www.ccc.edu/programs/Pages/Hospitality-Management-Associate-in-Applied-Science.aspx.

General Education Coursework 16 Credit Hours

- English (0035)
 - 101 Composition I3
 - Speech (0095)
 - 101 Fundamentals of Speech Communication3
 - Mathematics (0045)
 - 118 General Education Mathematics4
 - Humanities course.....3
 - Social & Behavioral Sciences course3
- One course must fulfill the Human Diversity requirement.*

Required Program Core 46 Credit Hours

- Culinary (0330)
 - 700 College Success with Hospitality Perspective3
 - 701 Introduction to Food Service I3
 - 703 Food Sanitation and Safety I2
 - 705 Chef Training I: Section A4
 - 708 Chef Training I: Section B4
- Hospitality Management (0330)
 - 724 Hospitality Management.....3
 - 806 Customer Service Fundamentals.....3
 - 807 Hospitality Financial Management3
 - 808 Restaurant Operations4
 - 810 Bar and Beverage Management3
 - 812 Hotel and Lodging Operations4
 - 814 Hospitality Procurement3
 - 816 Introduction to Hospitality Marketing Principles.....3

Required Work-Based Learning Courses 4 Credit Hours

- Hospitality Management (0330)
 - 860 Hospitality Internship.....4

Program Electives 3 Credit Hours

- Hospitality Management (0330)
 - 830 Catering and Event Management OR.....3
 - 835 Introduction to Casino Operations Management.....3

Total Program Credit Hours 65 Credit Hours

PROGRAM OFFERED AT: 

L'ART DE LA PÂTISSERIE

Pastry and Baking Program

Basic Certificate (0746)*

**Beginning Fall 2018, this program is no longer accepting new students.*

The Basic Certificate program in Professional Pastry and Baking through Kennedy-King College's French Pastry School offers excellent innovative and effective pastry, baking, and confectionery arts education in the L'art de la Pâtisserie inclusive 24-week certificate program. Instructed by some of the best pastry artisans in the world, students receive intensive hands-on practice, using the finest ingredients and equipment, in order to be optimally prepared to pursue a career in pastry. The Basic Certificate Program offers the rare opportunity to learn the art of pastry in an intimate setting, where students are personally mentored by masters. Students' skills are finely honed through hands-on practice and repeated exposure to the best pastry techniques, tools, and ingredients.

For more info on the Basic Certificate in L'art de la Pâtisserie (Pastry and Baking Program), please visit [www.ccc.edu/programs/Pages/Pastry-and-Baking-\(Professional\)-Basic-Certificate.aspx](http://www.ccc.edu/programs/Pages/Pastry-and-Baking-(Professional)-Basic-Certificate.aspx).

Required Program Core 24 Credit Hours

- French Pastry School (0330)
 - 707 Food Service Technology4
 - 712 Baking Theory and Problems.....5
 - 754 Candy and Confectionery2
 - 758 Plated Desserts4
 - 761 Chocolate and Sugar5
 - 762 French Cakes and Pastries.....4

Total Program Credit Hours 24 Credit Hours

*PROGRAM OFFERED AT: 

*This program is offered at the French Pastry School of Kennedy-King College at City Colleges of Chicago, and is located at 226 W. Jackson, Suite 106, Chicago, IL 60606.

L'ART DU GÂTEAU**Cake Decorating and Baking Program****Basic Certificate (0392)***

**Beginning Fall 2018, this program is no longer accepting new students.*

The Basic Certificate program in Professional Cake Decorating and Baking allows students to learn from internationally-renowned master chef instructors in L'art du Gâteau offered by Kennedy-King College's French Pastry School. This all-inclusive, 16-week, full-time certificate program is custom-designed to meet the needs of students who want to specialize in the prestigious art of cake baking and decorating. This unique hands-on program focuses on all aspects involving the creation of wedding, celebration, and specialty cakes. Personal attention from chef mentors is given every day in the kitchen, providing a comfortable, yet thorough training.

For more info on the Basic Certificate in L'art du Gâteau (Cake Decorating and Baking Program), please visit [www.ccc.edu/programs/Pages/Cake-Decorating-and-Baking-\(Professional\)-Basic-Certificate.aspx](http://www.ccc.edu/programs/Pages/Cake-Decorating-and-Baking-(Professional)-Basic-Certificate.aspx).

Required Program Core **16 Credit Hours**

French Pastry School (0330)

779 Safety and Sanitation.....	1
780 Baking, Pastry, and Technology	4
781 Cake Baking and Construction.....	5
782 Cake Decorating Techniques.....	5
783 Cake Business Planning	1

Total Program Credit Hours **16 Credit Hours**

*PROGRAM OFFERED AT:



*This program is offered at the French Pastry School of Kennedy-King College at City Colleges of Chicago, and is located at 226 W. Jackson, Suite 106, Chicago, IL 60606.



EDUCATION

If you have the desire to mentor and inspire others, consider a career in the fast-growing field of Education. City Colleges' education programs prepare you to work with infants to high school students and to teach numerous subjects like mathematics, science, or languages. City Colleges' pathways simplify the process of transferring to a four-year college or university, saving you up to \$40,000 on the cost of a bachelor's degree.

City Colleges offers transfer degrees—Associate in Arts (AA) and Associate in Science (AS)—that make transferring to a four-year college or university easy and convenient. There are several transfer pathways at CCC, which are suggested coursework that align with the area of study you are interested in. If a Focus Area offers any transfer pathways, they will be denoted in the below chart by the letter pairings AA or AS. Each pathway is hyperlinked to their Program Finder page where their semester map can be found.

To learn more about Education at City Colleges of Chicago, visit www.ccc.edu/education.

DEGREES AND CERTIFICATES

EARLY CHILDHOOD	BASIC CERTIFICATE	ADVANCED CERTIFICATE	ASSOCIATE DEGREE
Bilingual Teacher Aide			X
Child Development: Early Childhood Education			AA
Child Development: Elementary Education		X	X
Child Development: Pre-school Education	●	●	AAS
Child Development: Pre-school Education Infant/Toddler*		●	
Child Development: School-age Childcare			X
Elementary Education			AA
Family Childcare Business*	*		
K-12			
Bilingual Educator Endorsement	●		
Biology Education			AS
Chemistry Education			AS
English Education			AA
English as a Second Language	●		
French Education			AA
General Science Education			AS
Mathematics Education			AS
Physical Education			AA
Physics Education			AS
Social Science Education			AA
Spanish Education			AA
Special Education			AA

X This program is no longer accepting new students.

● This program is offered and accepting new students.

* This program is only accepting new students at select colleges. Please refer to the program's course requirements for colleges still admitting new students.

BILINGUAL EDUCATOR ENDORSEMENT**Basic Certificate (0428)**

The purpose of the Education Department Bilingual Educator Endorsement (BEE) program is to prepare teachers, administrators, and school service professionals who hold an Illinois Professional Educators License to meet the state endorsement requirements for the BEE. The BEE certificate will prepare teachers to teach in Bilingual classrooms in which instruction is provided in English and the students' home language. The coursework in these certificate is specifically aligned to meet the linguistics, development, education, methods, and cultural content requirements of the state endorsements including electives and a BEE practicum experience. The Education Department believes that these endorsements are of particular importance as the number of Bilingual students in Illinois is projected to continue to rise, and there is a declared Bilingual teacher shortage. The BEE certificate will prepare teachers who have tested as proficient in a foreign language to teach in bilingual settings.

For more info on the Basic Certificate in Bilingual Educator Endorsement, please visit
www.ccc.edu/programs/Pages/Bilingual-Educator-Endorsement-Basic-Certificate.aspx

Required Program Core 15 Credit Hours

Education (0083)

220 Theoretical Foundations of Second Language Acquisition & Learning	3
221 Methods and Materials for Teaching English as a Second Language in PK-12 Classrooms	3
222 Methods and Materials for Teaching English as a Second Language in PK-12 Bilingual Program.....	3
223 Assessment of the Second Language Learner	3
224 Cross-Cultural Studies for Teaching Limited English Proficient Students.....	3

Required Work-Based Learning Courses**3 Credit Hours**

Education (0083)

225 Bilingual & ESL Practicum	3
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Total Program Credit Hours 18 Credit Hours

PROGRAM OFFERED AT:



BILINGUAL TEACHER AIDE

Associate in Applied Science (0276)*

**Beginning Spring 2016, this program is no longer accepting new students. Please refer to CCC's other Education offerings.*

The Associate in Applied Science degree in Bilingual Teacher Aide prepares graduates to assist teachers of elementary school children in bilingual education in before or after school settings. The program is also for bilingual aides in the public school system, aides who will have contact with the bilingual classroom, dual language classroom, or English as a second language classroom.

For more info on the Associate in Applied Science degree in Bilingual Teacher Aide, please visit www.ccc.edu/programs/Pages/Child-Development---Bilingual-Teacher-Aide-Associate-in-Applied-Science.aspx.

General Education Coursework 15 Credit Hours
English (0035)

101 Composition I3

Additional General Education Courses12

Select an additional 12 hours of general education courses from Communications, Fine Arts & Humanities, Mathematics, Social & Behavioral Sciences, or Physical & Life Sciences.

At least one course must meet the Human Diversity (HD) requirement

Required Program Core 34 Credit Hours

Child Development (0090)

101 Human Growth and Development I.....4

102 Human Growth and Development II.....3

107 Health, Safety, and Nutrition3

201 Observation, Assessment, and Documentation to Support Young Children and Families*3

262 Child, Family, and Community Relations3

Education (0083)

260 Principles of Practice in Elementary Education.....3

Linguistics (0132)

101 Language and Culture.....3

102 Introduction to Linguistics.....3

103 Instructional Media for Second Language Teaching3

104 Cross Cultural/Multicultural Education3

201 Issues in First and Second Language Acquisition.....3

**Requires completion of clinical experience/observation hours*

**Required Work-Based Learning Courses
6 Credit Hours**

Education (0083)

269 Practicum in Elementary Education: 16 Weeks** 6

***Course is held in school-age setting*

Program Electives 6 Credit Hours

Students should meet with a College Advisor for selection of elective courses.

Total Program Credit Hours 61 Credit Hours

PROGRAM OFFERED AT: 

CHILD DEVELOPMENT: ELEMENTARY EDUCATION

Advanced Certificate (0284)*

**Beginning Spring 2016, this program is no longer accepting new students. Please refer to CCC's other Education offerings.*

For more info on the Advanced Certificate in Child Development: Elementary Education, please visit www.ccc.edu/programs/Pages/Child-Development---Elementary-Education-Advance-Certificate.aspx.

Required Program Core 25 Credit Hours

Child Development (0090)

101 Human Growth and Development I..... 4

102 Human Growth and Development II..... 3

107 Health, Safety, and Nutrition 3

109 Language and Literacy Development in Early Childhood 3

120 Introduction to Early Childhood Education Group Care . 3

143 Science and Mathematics for Young Children 3

201 Observation, Assessment, and Documentation to Support Young Children and Families* 3

Education (0083)

260 Principles of Practice in Elementary Education..... 3

**Requires completion of clinical experience/observation hours*

**Required Work-Based Learning Courses
6 Credit Hours**

Education (0083)

269 Practicum in Elementary Education: 16 Weeks** 6

***Course is held in school-age setting*

Program Electives 3 Credit Hours

Students should meet with a College Advisor for selection of one elective course.

Total Program Credit Hours 34 Credit Hours

PROGRAM OFFERED AT: 

CHILD DEVELOPMENT: ELEMENTARY EDUCATION

Associate in Applied Science (0280)*

**Beginning Spring 2016, this program is no longer accepting new students. Please refer to CCC's other Education offerings.*

The Associate in Applied Science degree in Child Development: Elementary Education offers courses in child development theory and the skills needed to assist teachers of elementary school children or for graduates to work in after-school care programs.

For more info on the Associate in Applied Science degree in Child Development: Elementary Education, please visit www.ccc.edu/programs/Pages/Child-Development---Elementary-Education-Associate-in-Applied-Science.aspx.

General Education Coursework 15 Credit Hours

English (0035)

101 Composition I3

Additional General Education Courses12

Select an additional 12 hours of general education courses from Communications, Fine Arts & Humanities, Mathematics, Social & Behavioral Sciences, or Physical & Life Sciences.

At least one course must meet the Human Diversity (HD) requirement

Required Program Core 25 Credit Hours

Child Development (0090)

101 Human Growth and Development I4

102 Human Growth and Development II OR.....3

149 Creative Activities for Young Children.....3

107 Health, Safety, and Nutrition3

109 Language and Literacy Development in Early Childhood.....3

120 Introduction to Early Childhood Education Group Care..3

143 Science and Mathematics for Young Children3

201 Observation, Assessment, and Documentation to Support Young Children and Families*3

Education (0083)

260 Principles of Practice in Elementary Education.....3

**Requires completion of clinical experience/observation hours*

Required Work-Based Learning Courses 6 Credit Hours

Education (0083)

269 Practicum in Elementary Education: 16 Weeks**6

***Course is held in school-age setting*

Child Development (0090)

205 Development of the Exceptional Child3

Psychology (0087)

201 General Psychology.....3

207 Child Psychology3

Sociology (0089)

201 Introduction to the Study of Society (HD).....3

203 Marriage and the Family3

Total Program Credit Hours 61 Credit Hours

PROGRAM OFFERED AT: 

CHILD DEVELOPMENT: PRE-SCHOOL EDUCATION

Basic Certificate (0277)

For more info on the Basic Certificate in Child Development: Pre-school Education, please visit www.ccc.edu/programs/Pages/Child-Development---Pre-school-Education-Basic-Certificate.aspx.

Required Program Core 16 Credit Hours

Child Development (0090)

101 Human Growth and Development I.....4

107 Health, Safety, and Nutrition3

120 Introduction to Early Childhood Education Group Care .3

149 Creative Activities for Young Children3

262 Child, Family, and Community Relations3

Total Program Credit Hours 16 Credit Hours

PROGRAM OFFERED AT:      

CHILD DEVELOPMENT: PRE-SCHOOL EDUCATION

Advanced Certificate (0282)

For more info on the Advanced Certificate in Child Development: Pre-school Education, please visit www.ccc.edu/programs/Pages/Child-Development---Pre-school-Education-Advanced-Certificate.aspx.

Required Program Core	31 Credit Hours
English (0035)	
101 Composition I.....	3
Any General Education Mathematics or Science course.....	3
Any General Education course.....	3
Child Development (0090)	
101 Human Growth and Development I.....	4
107 Health, Safety, and Nutrition	3
120 Introduction to Early Childhood Education Group Care..	3
149 Creative Activities for Young Children.....	3
201 Observation, Assessment, and Documentation to Support Young Children and Families*	3
262 Child, Family, and Community Relations	3
Any Child Development (0090) course.....	3
<i>*Requires completion of clinical experience/observation hours</i>	
Total Program Credit Hours	31 Credit Hours

PROGRAM OFFERED AT:      

CHILD DEVELOPMENT: PRE-SCHOOL EDUCATION

Associate in Applied Science (0278)

The Associate in Applied Science degree program in Child Development: Pre-school Education provides child development theory and skills for the student who intends to work immediately in a pre-school program as a teacher or teacher assistant in public and private preschools, child care centers, or nursery schools as well as prepare students to work as teacher aides and activities supervisors.

For more info on the Associate in Applied Science degree in Child Development: Pre-school Education, please visit www.ccc.edu/programs/Pages/Child-Development---Pre-school-Education-Associate-in-Applied-Science.aspx.

General Education Coursework	15 Credit Hours
English (0035)	
101 Composition I	3
Additional General Education Courses	12

Select an additional 12 hours of general education courses from Communications, Fine Arts & Humanities, Mathematics, Social & Behavioral Sciences, or Physical & Life Sciences.

At least one course must meet the Human Diversity (HD) requirement

Required Program Core	29 Credit Hours
Child Development (0090)	
101 Human Growth and Development I.....	4
107 Health, Safety, and Nutrition	3
109 Language and Literacy Development in Early Childhood	3
120 Introduction to Early Childhood Education Group Care .	3
143 Science and Mathematics for Young Children.....	3
149 Creative Activities for Young Children	3
201 Observation, Assessment, and Documentation to Support Young Children and Families*	3
258 Principles and Practices of Pre-school Education.....	4
262 Child, Family, and Community Relations	3

**Requires completion of clinical experience/observation hours*

Required Work-Based Learning Courses
6 Credit Hours

Child Development (0090)	
259 Practicum in Pre-school**	6

***Course is held in school-age setting*

Program Electives **12 Credit Hours**

Students should select a minimum of 12 credit hours from the following courses along with others as recommended by a College Advisor:

Child Development (0090)	
102 Human Growth and Development II.....	3
142 Methods and Materials for Infant and Toddler Care.....	3
205 Development of the Exceptional Child.....	3
248 Principles and Practice of Infant and Toddler Care.....	4
Computer Information Systems (0032)	
120 Introduction to Microcomputers.....	3

Total Program Credit Hours **62 Credit Hours**

PROGRAM OFFERED AT:      

This program has been updated please see Addendum

CHILD DEVELOPMENT: PRE-SCHOOL EDUCATION INFANT/TODDLER

Advanced Certificate (0286)*

The Advanced Certificate program in Child Development: Pre-school Education Infant/Toddler prepares students for employment in center or home-based programs that provide daycare for infants and toddlers. The study of child development theory and skills is necessary for those interested in becoming “nannies” or live-in infant and childcare providers.

For more info on the Advanced Certificate in Child Development: Pre-school Education Infant/Toddler, please visit www.ccc.edu/programs/Pages/Child-Development---Pre-school-Education-Infant-Toddler-Advanced-Certificate.aspx.

Required Program Core 23 Credit Hours

Child Development (0090)

101 Human Growth and Development I*	4
107 Health, Safety, and Nutrition	3
109 Language and Literacy Development in Early Childhood	3
120 Introduction to Early Childhood Education Group Care of Children	3
142 Methods and Materials for Infant and Toddler Care	3
201 Observation, Assessment, and Documentation to Support Young Children and Families*	3
248 Principles and Practice of Infant and Toddler Care	4

**Requires completion of clinical experience/observation hours*

Required Work-Based Learning Courses

6 Credit Hours

Child Development (0090)

259 Practicum in Pre-school**	6
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***Course is held in school-age setting*

Program Electives 3 Credit Hours

Child Development (0090)

230 Introduction to Early Intervention OR	3
262 Child, Family, and Community Relations	3

Total Program Credit Hours 32 Credit Hours

PROGRAM OFFERED AT:



**CHILD DEVELOPMENT: SCHOOL-AGE
CHILDCARE**

Associate in Applied Science (0275)*

**Beginning Spring 2016, this program is no longer accepting new students. Please refer to CCC's other Education offerings.*

The Associate in Applied Science degree in Child Development: School-Age Childcare provides graduates who have met the educational requirements to qualify as group workers and child care providers of school age children. The settings for which this focus is appropriate are private child-care centers and before- and after-school programs. Graduates of the program will also qualify to be assistant teachers or education support staff in public elementary schools.

For more info on the Associate in Applied Science degree in Child Development: School-Age Childcare, please visit www.ccc.edu/programs/Pages/Child-Development---School-Age-Child-Care-Associate-in-Applied-Science.aspx.

Students should select a minimum of 11 credit hours from the following courses, along with others as recommended by a College Advisor:

Child Development (0090)	
109 Language and Literacy Development in Early Childhood	3
149 Creative Activities for Young Children	3

Total Program Credit Hours 61 Credit Hours

PROGRAM OFFERED AT: 

General Education Coursework 15 Credit Hours

English (0035)	
101 Composition I	3
Additional General Education Courses	12
<i>Select an additional 12 hours of general education courses from Communications, Fine Arts & Humanities, Mathematics, Social & Behavioral Sciences, or Physical & Life Sciences.</i>	

At least one course must meet the Human Diversity (HD) requirement

Required Program Core 29 Credit Hours

Child Development (0090)	
101 Human Growth and Development I.....	4
102 Human Growth and Development II.....	3
107 Health, Safety, and Nutrition	3
144 School-Age Activity Programming.....	3
201 Observation, Assessment, and Documentation to Support Young Children and Families	3
205 Development of the Exceptional Child	3
262 Child, Family, and Community Relations	3
268 Principles and Practice of School-Age Programs.....	4
Social Service (0091)	
212 Introduction to Group Process	3

**Required Work-Based Learning Courses
6 Credit Hours**

Child Development (0090)	
269 Practicum in School-Age Childcare.....	6

Program Electives 11 Credit Hours

ENGLISH AS A SECOND LANGUAGE

Basic Certificate (0427)

The purpose of the Education Department English as a Second Language (ESL) program is to prepare teachers, administrators, and school service professionals who hold an Illinois Professional Educators License to meet the state endorsement requirements for the ESL. The ESL certificate will prepare teachers to teach in multilingual classrooms with students for whom English is not their first language. The coursework in these certificate is specifically aligned to meet the linguistics, development, education, methods, and cultural content requirements of the state endorsements including electives and an ESL practicum experience. The Education Department believes that these endorsements are of particular importance as the number of ESL students in Illinois is projected to continue to rise, and there is a declared ESL teacher shortage.

For more info on the Basic Certificate in English as a Second Language, please visit <http://www.ccc.edu/programs/Pages/English-as-a-Second-Language-Basic-Certificate.aspx>

For more info on the Basic Certificate in Family Childcare Business, please visit www.ccc.edu/programs/Pages/Family-Child-Care-Business-Basic-Certificate.aspx.

Required Program Core	1.5 Credit Hours
Short-Term Trade/Industrial/Trans (0504)	
104 Developing Your Family Childcare Business	1.5
Total Program Credit Hours	1.5 Credit Hours

PROGRAM OFFERED AT: 

Required Program Core 15 Credit Hours

Education (0083)	
220 Theoretical Foundations of Second Language Acquisition & Learning	3
221 Methods and Materials for Teaching English as a Second Language in PK-12 Classrooms	3
223 Assessment of the Second Language Learner	3
224 Cross-Cultural Studies for Teaching Limited English Proficient Students.....	3
Linguistics (0132)	
102 Introduction to Linguistics.....	3

**Required Work-Based Learning Courses
3 Credit Hours**

Education (0083)	
225 Bilingual & ESL Practicum	3

Total Program Credit Hours 18 Credit Hours

PROGRAM OFFERED AT: 

FAMILY CHILDCARE BUSINESS

Basic Certificate (0831)*

**Beginning Summer 2016, this program is no longer accepting new students at Daley. Please refer to the Family Childcare Business program at Truman.*

The Family Childcare Business certificate program trains, advises, and prepares potential providers of the process involved in opening a quality home child carecenter. State licensing requirements, programming, staffing, health/nutrition, and child safety are covered.



HEALTHCARE

Qualified health sciences professionals work to prevent, diagnose, and treat illnesses and injuries, as well as handle patient bills or manage a team of healthcare providers. If you value helping others, consider a career in the fast-growing Healthcare industry.

City Colleges offers transfer degrees—Associate in Arts (AA) and Associate in Science (AS)—that make transferring to a four-year college or university easy and convenient. There are several transfer pathways at CCC, which are suggested coursework that align with the area of study you are interested in. If a Focus Area offers any transfer pathways, they will be denoted in the below chart by the letter pairings AA or AS. Each pathway is hyperlinked to their Program Finder page where their semester map can be found.

To learn more about Healthcare at City Colleges of Chicago, visit www.ccc.edu/healthcare.

DEGREES AND CERTIFICATES

	BASIC CERTIFICATE	ADVANCED CERTIFICATE	ASSOCIATE DEGREE
COMMUNITY HEALTH CARE WORKER			
Community Health Care Worker	●	X	X
DENTISTRY			
Dental Hygiene			*
ELDERCARE			
Gerontology Aide	●		
Gerontology Specialist			AAS
Nursing Home Administration	●		
EMERGENCY MEDICAL SERVICES			
Emergency Medical Technician (EMT)—Basic	●		
EMT (II)—Paramedic		●	AAS
EXERCISE SCIENCE AND SPORTS STUDIES			
Advanced Massage Therapy		X	
Occupational Therapy Assistant (OTA)			AAS
Personal Fitness Trainer	●		
Physical Therapist Assistant			AAS
FIRE SCIENCE			
Fire Science Management			AAS
Fire Service Operations			AAS
HEALTH INFORMATION			
Health Information Management			X
Health Information Technology			AAS
Medical Billing	●		
Medical Coding		●	

CONTINUED ON NEXT PAGE →

X This program is no longer accepting new students. ● This program is offered and accepting new students.

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HEALTH PROFESSIONS	BASIC CERTIFICATE	ADVANCED CERTIFICATE	ASSOCIATE DEGREE
Patient Care Technician	●		
MEDICAL ASSISTANT			
Medical Assistant (Basic)		X	
Medical Assisting		●	
MORTUARY SCIENCE			
Mortuary Science			AAS
NURSING			
Basic Nursing Assistant	●		
Nursing			AAS
Practical Nursing (LPN)		*	
RN Completion			X
PHARMACY			
Pharmacy Technology		●	
PHLEBOTOMY			
Phlebotomy	●		
RADIOGRAPHY			
Radiography			AAS
RENAL DIALYSIS TECHNOLOGY			
Renal Dialysis Technology		X	
RESPIRATORY CARE			
Respiratory Care			AAS
SURGICAL TECHNOLOGY			
Sterile Processing Clinical	●		
Surgical Technology			AAS

X This program is no longer accepting new students.

● This program is offered and accepting new students.

* This program is only accepting new students at select colleges. Please refer to the program's course requirements for colleges still admitting new students.

ADVANCED MASSAGE THERAPY

Advanced Certificate (0398)*

*Beginning Fall 2018, this program is no longer accepting new students. Please refer to CCC's other Healthcare offerings.

The Advanced Massage Therapy program will provide students with the skills and knowledge to sit for the Massage and Bodywork Licensing Exam (MBLEX). Course completers will be eligible to apply for massage therapy licensing through the Illinois Department of Financial and Professional Regulation. The program provides the educational background required for pursuing a career as a massage therapist. The curriculum covers the foundational knowledge, skills, and abilities needed to function as a licensed massage therapist. The program focuses on student development in therapist-client communication, ethical massage practice, professionalism, business skills, self-care practices, and cultural competence. Employment opportunities for massage therapist include spas, health clubs, chiropractic practices, physical therapy clinics, hospitals and private practice.

For more info on the Advanced Certificate in Massage Therapy, please visit www.ccc.edu/programs/Pages/Massage-Therapy-Advanced-Certificate.aspx

Required Program Core	43 Credit Hours
Exercise Science and Sports Studies (0147)	
112 Functional Anatomy and Kinesiology	5
Massage Therapy (0149)	
110 Massage Therapy Practice I	5
111 Integration of Massage Therapy I	4
120 Massage Therapy Practice II	5
121 Integration of Massage Therapy II	4
210 Massage Therapy Practice III	6
211 Integration of Massage Therapy III	4
220 Massage Therapy Practice IV	6
221 Integration of Massage Therapy IV	4
Total Program Credit Hours	43 Credit Hours

PROGRAM OFFERED AT: 

BNA FUNDAMENTALS AND CLINICAL

Basic Certificate (0801)

This Illinois Department of Public Health approved certificate program for Basic Nursing Assistant (BNA) prepares students to work in the health care industry as a Certified Nursing Assistant (CNA). Students will be introduced to the discipline of nursing and the basic approaches to patient care. The role of the CNA as an assistant to the licensed nurse and member of the health care team is studied and practiced in the classroom, laboratory and clinical setting. Upon successful completion of all components of the program, the graduate must pass the State

competency exam to become certified as a Nursing Assistant in the State of Illinois.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more info on the Basic Certificate in Basic Nursing Assistant, please visit www.ccc.edu/programs/Pages/Basic-Nursing-Assistant-Basic-Certificate.aspx

Required Program Core	8 Credit Hours
Short-Term Health (0500)	
624 BNA Fundamentals/Clinical	8
Total Program Credit Hours	8 Credit Hours

PROGRAM OFFERED AT: 

COMMUNITY HEALTH CARE WORKER

Basic Certificate (0718)

The Community Health Care Worker program is designed to focus on competencies universally required for primary and preventive health care. The curriculum also serves students who may wish to enter into a nursing program or other allied health professions. Research shows that many health educator programs at the university level (bachelor, masters) require as a core curriculum the same knowledge and competence areas incorporated into this program.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more info on the Basic Certificate in Community Health Care Worker, please visit www.ccc.edu/programs/Pages/Community-Healthcare-Worker-Basic-Certificate.aspx

Required Program Core	16 Credit Hours
Health Technology TC4 (0334)	
120 Public Health and the Study of Disease and Epidemic..	3
121 Introduction to Community Health Work	3
125 Nutrition, Exercise, and Disease.....	3
130 Mental Health Issues	3
132 Field Experience	4
Total Program Credit Hours	16 Credit Hours

PROGRAM OFFERED AT: 

COMMUNITY HEALTH CARE WORKER

Advanced Certificate (0717)*

**Beginning Summer 2016, this program is no longer accepting new students. Please refer to CCC's other Healthcare offerings.*

The Community Health Care Worker program is designed to focus on competencies universally required for primary and preventive health care. The curriculum also serves students who may wish to enter into a nursing program or other allied health professions. Research shows that many health educator programs at the university level (bachelor, masters) require as a core curriculum the same knowledge and competence areas incorporated into this program.

For more info on the Advanced Certificate in Community Health Care Worker, please visit www.ccc.edu/programs/Pages/Community-Healthcare-Worker-Advanced-Certificate.aspx

Required Program Core 30 Credit Hours

Health Technology TC4 (0334)	
107 Health and the Public.....	3
110 Public Health and Global Societies	3
120 Public Health and the Study of Disease and Epidemic ..	3
121 Introduction to Community Health Work.....	3
125 Nutrition, Exercise, and Disease	3
126 Human Development Overview	4
130 Mental Health Issues.....	3
132 Field Experience	4
Child Development (0090)	
101 Human Growth and Development I.....	4

Total Program Credit Hours 30 Credit Hours

PROGRAM OFFERED AT: 

COMMUNITY HEALTH CARE WORKER

Associate in Applied Science (0716)*

**Beginning Summer 2016, this program is no longer accepting new students. Please refer to CCC's other Healthcare offerings.*

The Community Health Care Worker program is designed to focus on competencies universally required for primary and preventive health care. The curriculum also serves students who may wish to enter into a nursing program or other allied health professions. Research shows that many health educator programs at the university level (bachelor, masters) require as a core curriculum the same knowledge and competence areas incorporated into this program.

For more info on the Associate in Applied Science degree in Community Health Care Worker, please visit www.ccc.edu/programs/Pages/Community-Healthcare-Worker-Associate-in-Applied-Science.aspx

General Education Coursework 17 Credit Hours

English (0035)	
101 Composition I.....	3
Biology (0023)	
115 Human Biology	4
Humanities (0041).....	3
<i>Only Humanities 201, 202, 205, 207, 210, or 212 will fulfill the above requirement.</i>	
Mathematics (0045)	
118 General Education Mathematics.....	4
Additional General Education course	3

Required Program Core 45 Credit Hours

Health Technology TC4 (0334)	
107 Health and the Public.....	3
110 Public Health and Global Studies	3
120 Public Health and the Study of Disease and Epidemic..	3
121 Introduction to Community Health Work	3
125 Nutrition, Exercise, and Disease.....	3
126 Human Development Overview	4
127 Portfolio Development	3
128 Adult and Senior Health.....	3
129 Substance Abuse Issues	3
130 Mental Health Issues	3
131 Case Management Fundamentals.....	3
132 Field Experience	4
Child Development (0090)	
101 Human Growth and Development I.....	4
102 Human Growth and Development II.....	3

Total Program Credit Hours 62 Credit Hours

PROGRAM OFFERED AT: 

DENTAL HYGIENE

Associate in Applied Science (0222)

The Dental Hygiene AAS degree program educates students to provide preventive oral health care services to patients. Major responsibilities include assessing a patient’s health history, examining the teeth and oral structures, removing plaque biofilm, calculus and stain from the teeth, taking intraoral radiographs and educating patients in oral self-care practices. Graduates are prepared to pass national, regional and state board licensing exams required for dental hygiene licensure.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more info on the AAS degree in Dental Hygiene, please visit www.ccc.edu/programs/Pages/Dental-Hygiene-Associate-in-Applied-Science.aspx

General Education Coursework 17 Credit Hours

English (0035)	
101 Composition I.....	3
Mathematics (0045)	
118 General Education Mathematics.....	4
Psychology (0087)	
201 General Psychology.....	3
Chemistry (0073)	
121 Basic Chemistry I.....	4
Sociology (0089)	
201 Introduction to the Study of Society (HD).....	3

Required Program Core 57 Credit Hours

Dental Hygiene (0100)	
112 Concepts of Preventive Therapy I.....	2
121 Principles of Dental Hygiene I Lecture.....	2
122 Principles of Dental Hygiene II Lecture.....	2
123 Principles of Dental Hygiene I Lab.....	2
124 Principles of Dental Hygiene II Lab.....	3
125 Nutrition and Biochemistry.....	2
126 Dental Radiography.....	3
130 Dental Materials.....	3
131 Oral Structures and Function.....	3
132 General/Oral Pathology and Diagnosis.....	3
133 Head and Neck Anatomy.....	2
135 Concepts of Preventive Therapy II.....	1
200 Summer Clinic.....	3
202 Critique of Dental Literature.....	1
233 Expanded Functions.....	2

235 Community Dental Health I.....	2
241 Dental Pharmacology.....	2
244 Periodontics for Dental Hygienists.....	3
251 Clinical Dental Hygiene I.....	5
252 Clinical Dental Hygiene II.....	5
254 Dental Specialties.....	1
256 Community Dental Health II.....	1
258 Ethics and Jurisprudence.....	2
260 Senior Seminar.....	2

Total Program Credit Hours 74 Credit Hours

PROGRAM OFFERED AT: 

EMERGENCY MEDICAL TECHNICIAN - BASIC

Basic Certificate (0252)

The Basic Certificate in Emergency Medical Technician (EMT)–Basic recognizes that the majority of pre-hospital emergency medical care will be provided by the EMT Basic. This includes all skills necessary for the individual to provide emergency medical care at a basic life support level with an ambulance service or other specialized service. Specifically, the course is designed to provide training to recognize the nature or extent of a patient’s condition to administer appropriate emergency medical care to stabilize the patient’s condition, lift move, position, and otherwise handle the patient to minimize discomfort and prevent further injury and transport them safely to the proper medical facility.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more info on the Basic Certificate in Emergency Medical Technician (EMT)–Basic, please visit www.ccc.edu/programs/Pages/Emergency-Medical-Technician-Basic-Basic-Certificate.aspx

Required Program Core 8 Credit Hours

Emergency Medical Technician (0120)	
101 Emergency Medical Technician-Basic.....	8

Total Program Credit Hours 8 Credit Hours

PROGRAM OFFERED AT: 

EMT-II PARAMEDIC**Advanced Certificate (0265)**

The AC in EMT (II)–Paramedic is awarded to students who successfully complete the Paramedic Core Curriculum. Courses run for three consecutive semesters starting each fall. Applications are accepted the previous spring. Successful completion of the core curriculum provides eligibility to take the licensing examination offered by the IL Dept. of Public Health or the National Registry of EMTs. The Malcom X Paramedic program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP). For CAAHEP contact information, please visit www.caahep.org. The program is approved by the IL Dept. of Public Health, Division of Emergency Medical Services and Highway through JHS Cook County (Resource) Hospital.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more info on the Advanced Certificate in EMT (II)–Paramedic, please visit www.ccc.edu/programs/Pages/EMT-II-Paramedic-Advanced-Certificate.aspx

Required Program Core 18 Credit Hours

Emergency Medical Technician (0120)

221 Essentials of Paramedic Medicine I	9
223 Essentials of Paramedic Medicine II	9

Required Work-Based Learning Courses 16 Credit Hours

Emergency Medical Technician (0120)

222 Paramedic Medicine Practicum I.....	5
224 Paramedic Medicine Practicum II.....	5
227 Paramedic Medicine Field Internship	6

Total Program Credit Hours 34 Credit Hours

PROGRAM OFFERED AT:



EMT-II PARAMEDIC

Associate in Applied Science (0263)

Malcolm X College offers the only paramedic program in the city of Chicago and is one of the few colleges in Illinois to offer an AAS degree in this professional specialty. Successful completion of the Paramedic Core Curriculum, in addition to complementary general education courses, enables the paramedic student to attain an AAS degree. Completion of the degree can broaden the student’s marketability as well as provide a strong basis for continued professional learning.

This program is presented as a collaborative effort by Malcolm X College, the Chicago Fire Department, and the Chicago Resource Hospitals: Advocate Illinois Masonic Medical Center, Northwestern Memorial Hospital, and University of Chicago Hospitals. The Paramedic Program is approved and accredited by the Illinois Department of Public Health, Division of Emergency Medical Services and Highway.

The Malcolm X College Paramedic Program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP). For CAAHEP contact information, please visit www.caahep.org. The program is approved by the Illinois Department of Public Health, Division of Emergency Medical Services and Highway through JHS Cook County (Resource) Hospital.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more info on the Associate in Applied Science degree in EMT (II)–Paramedic, please visit www.ccc.edu/programs/Pages/EMT-II-Paramedic-Associate-in-Applied-Science.aspx

General Education Coursework 15 Credit Hours

English (0035)

101 Composition I3

Biology (0023)

120 Terminology for Medical Careers3

Sociology (0089)

201 Introduction to the Study of Society (HD)3

Psychology (0087)

201 General Psychology3

Fine Arts & Humanities **OR** Social & Behavioral Sciences3

Required Program Core 18 Credit Hours

Emergency Medical Technician (0120)

221 Essentials of Paramedic Medicine I9

223 Essentials of Paramedic Medicine II9

Required Work-Based Learning Courses 16 Credit Hours

Emergency Medical Technician (0120)

222 Paramedic Medicine Practicum I 5

224 Paramedic Medicine Practicum II 5

227 Paramedic Medicine Field Internship..... 6

Program Electives 12 Credit Hours

Communications elective 3

Physical & Life Sciences elective 3

Fine Arts & Humanities elective 3

Social & Behavioral Sciences elective 3

Total Program Credit Hours 61 Credit Hours

PROGRAM OFFERED AT: 

FIRE SCIENCE MANAGEMENT

Associate in Applied Science (0413)

The Fire Science Management degree is designed to concentrate on management and officer training with a target population of those who are already employed in a fire service and particularly addressing the specific higher education needs of the Chicago Fire Department (CFD).

For more info on the AAS in Fire Science Management, please visit www.ccc.edu/programs/Pages/Fire-Science-Management-Associate-in-Applied-Science.aspx

General Education Coursework 17 Credit Hours

- English (0035)
 - 101 Composition I 3
- Mathematics (0045)
 - 118 General Education Mathematics 4
- Psychology (0087)
 - 201 General Psychology 3
- Biology (0023) OR Chemistry (0073)
 - 114 General Education Biology OR 4
 - 121 Basic Chemistry I 4
- Choose one of the following Human Diversity (HD) Courses:
- Humanities (0041) OR Literature (0036)
 - 212 Non-Western Humanities OR 3
 - 128 Latin American Literature OR 3
 - 131 Survey of Afro-American Poetry OR 3
 - 150 Women's Literature 3

Required Program Core 35 Credit Hours

- Emergency Medical Technician (0120)
 - 101 Emergency Medical Technician 8
- Fire Science Management/Fire Service Operations (0152)
 - 101 Principles of Emergency Services 3
 - 102 Strategies and Tactics 3
 - 103 Fire Behavior and Combustion 3
 - 197 Principles of Emergency Responder Safety and Survival 3
 - 198 Strategies and Tactics II 3
 - 200 Management and Leadership I 3
 - 204 Management and Leadership II 3
 - 210 Fire Prevention 3
 - 220 Fire Instructor I 3

Program Electives 9 Credit Hours

Students should select a minimum of 9 credit hours from the following courses:

- Fire Science Management/Fire Service Operations (0152)

104 Occupational Safety and Health for Emergency Services.....	3
201 Fire Service Hydraulics.....	3
202 Building Construction for Fire Science.....	3
203 Fire Suppression and Protection Systems.....	3
205 Chemistry of Hazardous Materials.....	3
206 Management and Leadership III.....	3
211 Management and Leadership IV.....	3
221 Fire Instructor II.....	3

Total Program Credit Hours 61 Credit Hours

PROGRAM OFFERED AT: 

FIRE SERVICE OPERATIONS/FES

Associate in Applied Science (0414)

The Fire Service Operations degree focuses on fire suppression and prevention and general emergency response operations with a target population of the college student interested in a career in emergency and fire service but not yet employed by a department.

For more info on the Associate in Applied Science degree in Fire Service Operations, please visit www.ccc.edu/programs/Pages/Fire-Science-Operations-Associate-in-Applied-Science.aspx

General Education Coursework 23 Credit Hours

English (0035)	
101 Composition I	3
English (0035) OR Speech (0095)	
102 Composition II OR	3
101 Fundamentals of Speech Communication	3
Mathematics (0045)	
118 General Education Mathematics	4
Psychology (0087)	
201 General Psychology	3
Biology (0023)	
114 General Education Biology	4
Sociology (0089)	
201 Introduction to the Study of Society (HD)	3
<i>Choose one of the following Human Diversity (HD) Courses:</i>	
Humanities (0041) OR Literature (0036)	
212 Non-Western Humanities OR	3
128 Latin American Literature OR	3
131 Survey of Afro-American Poetry OR	3
150 Women's Literature	3

Required Program Core 26 Credit Hours

Emergency Medical Technician (0120)	
101 Emergency Medical Technician	8
Fire Science Management/Fire Service Operations (0152)	
101 Principles of Emergency Services	3
103 Fire Behavior and Combustion	3
197 Principles of Emergency Responder Safety and Survival	3
202 Building Construction for Fire Science	3
203 Fire Suppression and Protection Systems	3
210 Fire Prevention	3

Program Electives 12 Credit Hours

Students should select a minimum of 12 credit hours from the

following courses:

Environmental Technology (0027)	
102 Leadership/Influence/Communications	3
111 Basic Incident Command	3
Fire Science Management/Fire Service Operations (0152)	
102 Strategies and Tactics	3
104 Occupational Safety and Health for Emergency Services	3
198 Strategies and Tactics II	3
205 Chemistry of Hazardous Materials	3
212 Fire Investigation I	3
213 Fire Investigation II	3
220 Fire Instructor I	3
221 Fire Instructor II	3

Total Program Credit Hours 61 Credit Hours

PROGRAM OFFERED AT: 

GERONTOLOGY AIDE

Basic Certificate (0339)

This Basic Certificate program is designed to create the credentials needed to become a Gerontology Aide, or provides extra credentialing for individuals already in a related field who wish to add Gerontology coursework to their credentials.

For more info on the Basic Certificate in Gerontology Aide, please visit www.ccc.edu/programs/Pages/Gerontology-Aide-Basic-Certificate.aspx

Required Program Core 9 Credit Hours

Psychology (0087)	
222 Adult Development and Aging	3
Social Service (0091)	
102 Introduction to Gerontology	3
105 Physiology of Aging	3

Required Work-Based Learning Courses 3 Credit Hours

Social Service (0091)	
250 Practicum I	3

Total Program Credit Hours 12 Credit Hours

PROGRAM OFFERED AT: 

GERONTOLOGY SPECIALIST**Associate in Applied Science (0340)**

The AAS degree program for Gerontology Specialist prepares students for entry level in the field, a human services position that qualifies the individual for work in federal, state, and local agencies, both private and public, that provide outreach services for the elderly.

For more info on the Associate in Applied Science in Gerontology Specialist, please visit www.ccc.edu/programs/Pages/Gerontology-Specialist-Associate-in-Applied-Science.aspx

General Education Coursework 19 Credit Hours**Biology (0023)**

115 Human Biology.....4

English (0035)

101 Composition I.....3

Psychology (0087)

201 General Psychology.....3

Computer Information Systems (0032)

120 Introduction to Microcomputers.....3

One of the following courses must fulfill the Human Diversity requirement:

Fine Arts & Humanities and Social & Behavioral Sciences courses.....6

Required Program Core 30 Credit Hours**Psychology (0087)**

222 Adult Development and Aging.....3

223 Death, Dying, and Bereavement.....3

Social Service (0091)

102 Introduction to Gerontology.....3

103 Aging and Social Policy.....3

105 Physiology of Aging.....3

106 Aging and the Family.....3

107 Aging and Leisure.....3

202 Aging and Human Service.....3

203 Interpersonal Communication with Elderly.....3

204 Cross-Cultural Studies in Gerontology.....3

Required Work-Based Learning Courses 6 Credit Hours**Social Service (0091)**

250 Practicum I.....3

251 Practicum II.....3

Program Electives**6 Credit Hours**

Students should select a minimum of two Gerontology course electives recommended by a College Advisor

Total Program Credit Hours**61 Credit Hours**PROGRAM OFFERED AT: 

HEALTH INFORMATION MANAGEMENT

Associate in Applied Science (0393)*

**Beginning Summer 2017, this program is no longer accepting new students. Please refer to CCC's other Healthcare offerings.*

The Health Information Management (HIM) program prepares students with the knowledge, skills, and abilities to organize and manage health information data in both paper and electronic systems. Students will acquire knowledge and develop application skills for a variety of classification systems to code for reimbursement, databases and registries, and the maintenance of patients' medical and treatment histories. This program prepares students for the Registered Health Information Technician Exam administered by the Commission on Accreditation for Health Informatics and Health Information Education (CAHIIM).

For more info on the Associate in Applied Science degree in Health Information Management, please visit [www.ccc.edu/programs/Pages/Health-Information-Management-\(HIM\).aspx](http://www.ccc.edu/programs/Pages/Health-Information-Management-(HIM).aspx)

204 Health Care Statistics 2
 205 Health Information Management Seminar I 1
 206 Health Information Management Seminar II 1
 Health (0001)
 102 Medical Law and Ethics 3
 107 Pharmacology..... 4

Required Work-Based Learning Courses 1 Credit Hour

Health Information Management (0145)
 207 Health Information Management Practicum..... 1
One course must fulfill the Human Diversity (HD) requirement

Total Program Credit Hours 61 Credit Hours

PROGRAM OFFERED AT: 

General Education Coursework 18 Credit Hours

English (0035)
 101 Composition I 3
 Biology (0023)
 120 Terminology for Medical Careers 3
 Mathematics (0045)
 118 General Education Mathematics OR higher 3
 Psychology (0087)
 201 General Psychology 3
 Speech (0095)
 101 Fundamentals of Speech Communication 3
 Fine Arts & Humanities course 3

Required Program Core 43 Credit Hours

Computer Information Systems (0032)
 120 Introduction to Microcomputers 3
 145 Database Management 3
 Biology (0023)
 116 Anatomy and Physiology 4
 Health Information Management (0145)
 101 Foundations of HIT 3
 102 Medical Billing 4
 103 Basic Coding ICD9/ICD10 3
 104 Basic Coding CPT 3
 201 Fundamentals of Medical Science 3
 202 Advanced Coding ICD9 and CPT-4 3
 203 Reimbursement Methodologies 3

HEALTH INFORMATION TECHNOLOGY**Associate in Applied Science (0408)**

The Health Information Technology (HIT) program offers an introductory career-focused educational path into the healthcare industry. This program is designed for students who aspire to become healthcare professionals in the Health Information Technology (HIT) career field that includes professional opportunities for Medical Coders and Billers. This program is designed to prepare students to successfully attain a variety of professional coding certifications such as the Certified Coding Professional (CPC) through the American Academy of Professional Coders (AAPC). The knowledge and skills upon completion of the Health Information Technology (HIT) Associate's Program will allow students to enter the vast opportunities that are available in the healthcare industry."

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more info on the Associate in Applied Science degree in Health Information Technology, please visit www.ccc.edu/programs/Pages/Health-Information-Technology-Associate-in-Applied-Science.aspx

204 Health Statistics and Registries	2
213 Supervisory and Legal Aspects	3
214 Quality and Performance Improvement	3
Computer Information Systems (0032)	
120 Introduction to Microcomputers.....	3
145 Database Management	3

Required Work-Based Learning Courses 8 Credit Hours

Health Information Management (0145)	
221 Professional Practice I	4
222 Professional Practice II	4
<i>One course must fulfill the Human Diversity (HD) requirement.</i>	

Total Program Credit Hours 68 Credit Hours

PROGRAM OFFERED AT:

**General Education Coursework 16 Credit Hours**

English (0035)	
101 Composition I	3
Biology (0023)	
116 Anatomy and Physiology.....	4
Mathematics (0045)	
118 General Education Mathematics OR higher.....	3
Speech (0095)	
101 Fundamentals of Speech Communication	3
Psychology (0087)	
201 General Psychology	3

Required Program Core 44 Credit Hours

Health Information Technology (0145)	
101 Foundations of HIT (HD)	3
102 Medical Billing	4
103 Basic ICD-10-CM/PCS Coding	3
104 Basic CPT Coding.....	3
105 Pharmacology for HIT Professionals.....	2
108 Advanced ICD-10-CM/PCS Coding	3
109 Advanced CPT Coding.....	3
110 Medical Terms for HIT Professionals	3
201 Fundamentals of Medical Science	3
203 Reimbursement Methodologies	3

MEDICAL ASSISTANT (BASIC)

Advanced Certificate (0359)*

**Beginning Summer 2016, this program is no longer accepting new students. Please refer to the Medical Assisting program at Malcolm X.*

The Advanced Certificate program for Medical Assistant prepares students to become multi-skilled health care professionals qualified to perform administrative, clinical, and laboratory procedures in a doctor's office, clinic, hospital, or other medical setting.

For more info on the Advanced Certificate in Medical Assistant (Basic), please visit [www.ccc.edu/programs/Pages/Medical-Assistant-\(Basic\)-Advanced-Certificate.aspx](http://www.ccc.edu/programs/Pages/Medical-Assistant-(Basic)-Advanced-Certificate.aspx)

Required Program Core 27 Credit Hours

Biology (0023)	
120 Terminology for Medical Careers	3
Health (0001)	
102 Medical Law and Ethics	3
103 Medical Assisting Clinical Procedures I.....	3
104 Medical Assisting Clinical Procedures II.....	3
105 Medical Careers Professional Development	2
106 Administrative Procedures	3
107 Pharmacology	4
108 Fundamentals of Ambulatory Billing and Coding	3
251 First Aid.....	3

Required Work-Based Learning Courses 6 Credit Hours

Health (0001)	
109 Medical Assisting Externship Practicum.....	6

Total Program Credit Hours 33 Credit Hours

PROGRAM OFFERED AT: 

MEDICAL ASSISTING

Advanced Certificate (0421)

The Advanced Certificate program in Medical Assisting prepares students to become multi-skilled health care professionals qualified to perform administrative, clinical, and laboratory procedures in a doctor's office, clinic, hospital, or other medical setting.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more info on the Advanced Certificate in Medical Assistant (Basic), please visit [www.ccc.edu/programs/Pages/Medical-Assistant-\(Basic\)-Advanced-Certificate.aspx](http://www.ccc.edu/programs/Pages/Medical-Assistant-(Basic)-Advanced-Certificate.aspx)


Required Program Core 28 Credit Hours

Biology (0023)	
116 Anatomy and Physiology	4
120 Terminology for Medical Careers.....	3
Health (0001)	
102 Medical Law and Ethics	3
105 Medical Careers Professional Development	2
Medical Assisting (0153)	
103 Medical Assisting Clinical Procedures I	3
104 Medical Assisting Clinical Procedures II	3
106 Administrative Procedures	3
107 Pharmacology.....	4
108 Fundamentals of Ambulatory Billing and Coding	3

Required Work-Based Learning Courses 3 Credit Hours

Medical Assisting (0153)	
109 Medical Assisting Practicum	3

Total Program Credit Hours 31 Credit Hours

PROGRAM OFFERED AT: 

MEDICAL BILLING

Basic Certificate (0395)


The Basic Certificate in Medical Billing is designed to provide students with the suitable education and hands-on skills necessary for entry-level positions as medical insurance billers for offices, clinics, billing services, and other facilities. Students will develop application skills for a variety of classification systems to code for reimbursement, databases and registries, and the maintenance of patients' medical and treatment histories. Students learn how to accurately process health insurance claims with an emphasis on all aspects of medical insurance including: plan options, payer requirements, state and federal regulations, abstracting of source documents, the accurate completion of claims, along with the coding of diagnoses and procedures/services. In addition, students acquire knowledge about major insurance programs, the healthcare delivery system in the United States, and federal healthcare legislation. The content of this program also includes the study of origin and purpose, along with content, order, analysis, use of medical records, methods of retrieving, numbering, and the retention of health information. The focus of the program is on correlating health information with billing procedures in different healthcare settings. After the completion of the Medical Billing Basic Certificate the students can seamlessly transfer all of their credits earned in the Medical Billing program and have an opportunity to continue their education in the Medical Coding Advanced Certificate program.

For more info on the Basic Certificate in Medical Billing, please visit www.ccc.edu/programs/Pages/Medical-Billing-Basic-Certificate.aspx

Required Program Core 16 Credit Hours

Health Information Technology (0145)	
101 Foundations of HIT.....	3
102 Medical Billing.....	4
103 Basic ICD-10-CM/PCS Coding	3
104 Basic CPT Coding.....	3
110 Medical Terms for HIT Professionals	3

Total Program Credit Hours 16 Credit Hours

PROGRAM OFFERED AT: 

healthcare records. Students utilize 3M encoder software in both basic and advanced coding courses in order to master their coding skills and smoothly transition to their entry-level healthcare careers. In addition, the students participate in the planned and supervised clinical affiliations in medical facilities. Our stackable degree path allows students to apply all credits earned in the Medical Billing Basic Certificate program to the Medical Coding Advanced Certificate program. Upon the completion of the Medical Coding Advanced Certificate, students can then pursue an Associate in Applied Science degree in Health Information Technology.

For more info on the Advanced Certificate in Medical Coding, please visit www.ccc.edu/programs/Pages/Medical-Coding-Advanced-Certificate.aspx

Required Program Core 41 Credit Hours

Biology (0023)	
116 Anatomy and Physiology	4
Computer Information Systems (0032)	
120 Introduction to Microcomputers.....	3
Health Information Technology (0145)	
101 Foundations of HIT	3
102 Medical Billing.....	4
103 Basic ICD-10-CM/PCS Coding	3
104 Basic CPT Coding	3
105 Pharmacology for HIT Professionals	2
108 Advanced ICD-10-CM/PCS Coding	3
109 Advanced CPT Coding	3
110 Medical Terms for HIT Professionals.....	3
201 Fundamentals of Medical Science	3
203 Reimbursement Methodologies	3
221 Professional Practice I	4

Total Program Credit Hours 41 Credit Hours

PROGRAM OFFERED AT: 

MEDICAL CODING

Advanced Certificate (0394)

The Advanced Certificate in Medical Coding is intended to provide the student with the necessary education and hands-on skills required for entry-level positions as medical coders for a variety of healthcare settings. The students learn ICD-10-CM/PCS and CPT/HCPCS Level II guidelines and apply them while coding various coding scenarios including inpatient records, outpatient visits, operative reports, and other

MORTUARY SCIENCE

Associate in Applied Science (0257)

The Associate in Applied Science degree program in Mortuary Science prepares students enrolled in the program with work-based experiences in how to embalm and restore human remains, arrange and conduct religious and humanistic funerals, memorial services, manage funeral home operations, sell funeral merchandise, assist grieving families, and assist members of the medical profession in areas related to human remains. Funeral home establishments may employ students prior to the state of Illinois required internship. The program is in compliance with the standards, guidelines, and curriculum of the American Board of Funeral Service Education (ABFSE), the Conference of Funeral Service Examining Boards (ICFSE), the City Colleges of Chicago (CCC), and the Illinois Department of Financial and Professional Regulations (IDFPR).

Accreditation Agency Information: ABFSE

3414 Ashland Ave., Suite G | St. Joseph, MO 64506 | (816) 233-3747 | ABFSE.org

For additional accreditation specific information related to the aims and objectives of the program, please see the following link: www.ccc.edu/colleges/malcolm-x/departments/Pages/Mortuary-Science.aspx

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more info on the Associate in Applied Science degree in Mortuary Science, please visit www.ccc.edu/programs/Pages/Mortuary-Science-Associate-in-Applied-Science.aspx

227 Human Structure and Function II 4

Mortuary Science (0128)

102 Microbiology for Embalmers 3

103 Chemistry for Embalmers 3

104 Pathology for Embalmers..... 3

108 Accounting in Funeral Services 3

109 Sociology for Funeral Service..... 3

111 History of Funeral Service..... 3

203 Funeral Directing 3

204 Mortuary and Business Law..... 3

207 Restorative Art..... 3

209 Funeral Management and Merchandise 3

210 Advanced Mortuary Science Practice/Ethics 2

211 Psychology of Funeral Service 3

213 Embalming Theory I..... 3

214 Embalming Laboratory..... 3

215 Restorative Art Laboratory..... 2

216 Embalming Theory II..... 3

Entrepreneurship (0143)

201 Introduction to Entrepreneurship..... 3

Computer Information Systems (0032)

120 Introduction to Microcomputers..... 3

At least one course must meet the Human Diversity (HD) requirement.

Total Program Credit Hours 62 Credit Hours

PROGRAM OFFERED AT: 

General Education Coursework 18 Credit Hours

English (0035)

101 Composition I 3

Mathematics (0045)

118 General Education Mathematics 4

Biology (0023)

121 Biology I 5

Speech (0095)

101 Fundamentals of Speech Communication 3

Health Science (0124) OR Biology (0023)

102 Professional Medical and Health Care Practices OR 3

120 Terminology for Medical Careers..... 3

Required Program Core 62 Credit Hours

Biology (0023)

130 Human Cadaver Anatomy I..... 1

131 Human Cadaver Anatomy II..... 1

226 Human Structure and Function I 4

NURSING

Associate in Applied Science (0239)

The Associate in Applied Science degree program in Nursing prepares students through the study of nursing theory and patient care techniques to take the licensure examination for Registered Nurses (RN). Both classroom instruction and clinical experiences in Chicago, surrounding suburban area hospitals, and primary care facilities are provided. The curriculum is designed to lead the student to employment as a registered professional nurse in hospitals, clinics, nursing homes, physicians' offices, schools, public health, government, and military, or industry.

Proof of a Certified Nursing Assistant (CNA) certificate is required at the time of application to the Nursing program.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more info on the Associate in Applied Science in degree Nursing, including the LPN Bridge Pathway, please visit www.ccc.edu/programs/Pages/Nursing-Associate-in-Applied-Science.aspx

General Education Coursework	16 Credit Hours
English (0035)	
101 Composition I	3
Biology (0023)	
121 Biology I	5
Chemistry (0073)	
121 Basic Chemistry I	4
Mathematics (0045)	
118 General Education Mathematics or higher.....	4

Required Program Core	53 Credit Hours
Microbiology (0024)	
233 General Microbiology	4
Biology (0023)	
226 Human Structure and Function I	4
227 Human Structure and Function II	4
Nursing (0063)	
101 Fundamentals of Nursing	7
102 Introduction to Medical-Surgical	7
203 Nursing Leadership	3
210 Intermediate Medial Surgical Nursing	6
211 Maternal-Newborn/Mental Health.....	6
212 Pediatric/Gerontologic Nursing	6
213 Advanced Medical Surgical.....	6

At least one course must meet the Human Diversity (HD) requirement.

Total Program Credit Hours 69 Credit Hours

PROGRAM OFFERED AT: 

NURSING HOME ADMINISTRATION

Basic Certificate (0341)

The Basic Certificate in Nursing Home Administration addresses the educational needs of managers who will work with the elderly population in health care settings. The program prepares students for employment in long-term care facilities, as well as to sit for the nursing home administrator licensure exam. The program includes both gerontology and business courses based on the requirements of the nursing home administrator's job description. Career possibilities include: Medical and Health Services Managers.

For more info on the Basic Certificate in Nursing Home Administration, please visit www.ccc.edu/programs/Pages/Nursing-Home-Administration-Basic-Certificate.aspx

Required Program Core	12 Credit Hours
Business (0030)	
271 Human Resources Management	3
Social Service (0091)	
102 Introduction to Gerontology.....	3
252 Nursing Home Administration	3
253 Accounting for Long-Term Care.....	3
Total Program Credit Hours	12 Credit Hours

PROGRAM OFFERED AT: 

**OCCUPATIONAL THERAPY ASSISTANT
(CER)****Associate in Applied Science (0259)**

The Associate in Applied Science degree program in Occupational Therapy Assistant (OTA) is the study of occupational therapy as a skilled healthcare service that uses occupation to promote meaningful living. Occupational therapy assistants, under the guidance of occupational therapists, adapt activities, tasks, and the environment in order to enable people of all ages and backgrounds to fulfill their chosen occupations and life roles. Career options can include employment in hospitals, clinics, schools, specialized community care settings, and wellness programs. The program's mission is to prepare competent and effective occupational therapy practitioners who value occupation as both a means and as an end to quality living for self and others through a sound educational experience that includes preparation in:

- The occupational therapy process
- The impact of culture
- Use of self as an agent of change
- Ethical professional practice
- Teaching and learning processes
- Collaborating as a healthcare professional
- Working in a variety of practice environments
- Oral and written communication skills

The Occupational Therapy Assistant program is accredited by the Accreditation Council for Occupational Therapy Education. Graduates of the program are eligible to sit for the National Certification Exam for Occupational Therapy Assistants administered by the National Board for Certification in Occupational Therapy, Inc. (NBCOT). After successful completion of this exam, an individual becomes a Certified Occupational Therapy Assistant. Determination of exam eligibility for applicants who have a felony related charge or conviction requires individualized review by NBCOT, Inc. Most states require licensure in order to practice. Illinois license issuance is based upon the results of the NBCOT Certification exam.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more info on the Associate in Applied Science degree in Occupational Therapy Assistant (OTA), please visit [www.ccc.edu/programs/Pages/Occupational-Therapy-Assistant-\(OTA\)-Associate-in-Applied-Science.aspx](http://www.ccc.edu/programs/Pages/Occupational-Therapy-Assistant-(OTA)-Associate-in-Applied-Science.aspx)

General Education Coursework 15 Credit Hours

English (0035)	
101 Composition I.....	3
Computer Information Systems (0032)	
120 Introduction to Microcomputers.....	3
Psychology (0087)	
201 General Psychology.....	3
Occupational Therapy Assistant (0122)	

106 Foundations of Human Occupation	3
Psychology (0087) OR Child Development (0090)	
207 Child Psychology OR	3
101 Human Growth and Development I.....	4

Required Program Core 45 Credit Hours

Biology (0023)	
226 Human Structure and Function I.....	4
227 Human Structure and Function II.....	4
Sociology (0089)	
201 Introduction to the Study of Society (HD).....	3
Occupational Therapy Assistant (0122)	
107 Occupations of Childhood.....	5
108 Practice Skills for the Occupational Therapy Assistant I	2
109 Occupations of Adolescence and Early Adulthood	5
110 Practice Skills for the Occupational Therapy Assistant II.....	2
209 Occupations of Middle Adulthood	5
210 Practice Skills for the Occupational Therapy Assistant III.....	2
211 Special Topics for the OTA I.....	3
212 Occupations for Later Adulthood	5
213 Practice Skills for the Occupational Therapy Assistant IV.....	2
214 Special Topics for the OTA II.....	3

Required Work-Based Learning Courses 12 Credit Hours

Occupational Therapy Assistant (0122)	
215 Fieldwork Level 2A	6
216 Fieldwork Level 2B	6

Program Electives 3 Credit Hours

Psychology (0087) OR Social Service (0091) OR Child Development (0090)	
222 Adult Development and Aging OR	3
102 Introduction to Gerontology OR	3
102 Human Growth and Development II.....	3

Total Program Credit Hours 75 Credit HoursPROGRAM OFFERED AT: 

PATIENT CARE TECHNICIAN


Basic Certificate (0396)

The Patient Care Technician basic certificate provides the educational background required for pursuing a career in the healthcare industry. The curriculum covers the foundational knowledge, skills, and abilities needed to function as an entry level healthcare provider. The program focuses on student development in the following competencies essential to all healthcare providers: effective communication, accountability, cultural competence, use of information systems, and patient safety. Upon completion of the BC, students will demonstrate that they can deliver safe, culturally-competent, and evidence-based patient care.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more info on the Basic Certificate in Patient Care Technician, please visit www.ccc.edu/programs/Pages/Health-Professions-Basic-Certificate.aspx

Required Program Core	16 Credit Hours
English (0035)	
101 Composition I.....	3
Biology (0023)	
116 Anatomy and Physiology OR	4
121 Biology I	5
Health Professions (0146)	
101 Patient Care Technician Training.....	6
102 Health Career Studies.....	3
Total Program Credit Hours	16 Credit Hours

PROGRAM OFFERED AT: 

PERSONAL FITNESS TRAINER

Basic Certificate (0397)

The Basic Certificate program provides students with the educational background required for pursuing a career in the health and fitness industry. The curriculum provides the basic foundational skills needed to assess human body mechanics and the ability to develop and implement exercise training programs designed to improve and maintain health-related components of fitness and performance. This knowledge will prepare students to achieve personal trainer certification from the National Academy of Sports Medicine (NASM). Employment opportunities with this certification include personal trainer, group exercise instructor, and/or entry-level positions available at corporate or community fitness centers (i.e. health clubs, hospital fitness centers, YMCA, community recreational centers, etc.).

For more info on the Basic Certificate in Personal Fitness Trainer, please visit www.ccc.edu/programs/Pages/Personal-Fitness-Trainer-Basic-

Certificate.aspx

Required Program Core	15 Credit Hours
English (0035)	
101 Composition I.....	3
Exercise Science and Sports Studies (0147)	
101 Personal Trainer Preparation.....	4
112 Functional Anatomy and Kinesiology.....	5
Psychology (0087)	
201 General Psychology.....	3
Required Work-Based Learning Courses	2 Credit Hours
Exercise Science and Sports Studies (0147)	
102 Personal Trainer Practicum	2
Total Program Credit Hours	17 Credit Hours

PROGRAM OFFERED AT: 

PHARMACY TECHNOLOGY

Advanced Certificate (0254)

Pharmacy technicians assist and support licensed pharmacists in providing health care and medications to patients. They may perform many of the same duties as pharmacists, but all technicians' work must be checked by a pharmacist before medication is dispensed. While pharmacy technicians can work everywhere pharmacists work, some state laws may limit the duties they perform. A special application is required for entry into the program. Upon acceptance into the program, students must provide proof of current health insurance and recent medical examination.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more info on the Advanced Certificate in Pharmacy Technology, please visit www.ccc.edu/programs/Pages/Pharmacy-Technology-Advanced-Certificate.aspx

Required Program Core	29 Credit Hours
Biology (0023)	
116 Anatomy and Physiology.....	4
Pharmacy Technology (0062)	
101 Pharmacology for Allied Health.....	4
102 Basic Science for Allied Health.....	4
103 Introduction to Pharmacy Technology.....	4
104 Pharmaceutical Calculations.....	3
113 Prescription Processing.....	2
121 Pharmacy Communications.....	3
201 Introduction to Pharmacy Law.....	1
202 Pharmacy Operations.....	4

Required Work-Based Learning Courses	8 Credit Hours
Pharmacy Technology (0062)	
204 Clinical Practicum I.....	4
205 Clinical Practicum II.....	4
Total Program Credit Hours	37 Credit Hours

PROGRAM OFFERED AT: 

PHLEBOTOMY

Basic Certificate (0219)

The BC in Phlebotomy leads to certification through the National Phlebotomy Association (NPA), the American Society of Clinical Pathologists (ASCP), and the American Society of Phlebotomy Technicians (ASPT). The phlebotomist is an entry level health

care worker who serves as the direct link between the patient and the laboratory. The position is responsible for drawing both venous and arterial blood specimens from patients and sending blood to the laboratory. In some cases, physician approval is required. The laboratory technologist relies on the integrity and accuracy of the phlebotomist in procuring the proper specimens; accurate diagnosis of a patient's condition can depend on quality work. Phlebotomists can further their education and become laboratory technicians or technologists.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more info on the Basic Certificate in Phlebotomy, please visit www.ccc.edu/programs/Pages/Phlebotomy-Basic-Certificate.aspx

Required Work-Based Learning Courses	16 Credit Hours
Biology (0023)	
120 Terminology for Medial Careers.....	3
Phlebotomy (0113)	
109 Phlebotomy Practicum and Seminar I.....	5
209 Phlebotomy Practicum and Seminar II.....	8
Total Program Credit Hours	16 Credit Hours

PROGRAM OFFERED AT: 

PHYSICAL THERAPIST ASSISTANT

Associate in Applied Science (0406)

The Physical Therapist Assistant curriculum provides graduates to be employed in direct patient care settings under the supervision of a licensed physical therapist. Physical therapy assistants work to progress or return function by alleviation or prevention of physical impairment and perform other essential activities in a physical therapy setting. Coursework includes human anatomy and physiology, the consequences of disease or injury, and physical therapy treatment of a variety of patient conditions affecting humans throughout the life span. Clinical education is provided at cooperating hospitals, public health facilities, and private physical therapy centers. Students entering clinical externships may be required to provide a criminal background check and drug screening test before or during each rotation. Upon completion of the program, students must sit for and pass the Physical Therapist Assistant licensure exam, administered by the Illinois Department of Financial and Professional Regulations, in order to be employed and practice in the field. Employment opportunities for physical therapy assistants include hospitals, physician offices, physical therapy clinics, and private practices.

The Physical Therapist Assistant Program at Malcolm X College is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 1111 North Fairfax Street, Alexandria, Virginia 22314; telephone: 703-706-3245; email: accreditation@apta.org; website: <http://www.capteonline.org>. If needing to contact the program/institution directly, please call 312-850-7021 or email edicapo@ccc.edu.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more info on the Associate in Applied Science degree in Physical Therapist Assistant, please visit www.ccc.edu/programs/Pages/Physical-Therapist-Assistant-Associate-in-Applied-Science.aspx

General Education Coursework 17 Credit Hours

English (0035)

101 Composition I 3

Biology (0023)

116 Anatomy and Physiology 4

Mathematics (0045)

118 General Education Mathematics 4

Physics (0077)

131 Mechanics and Power 3

Psychology (0087)

201 General Psychology 3

Required Program Core 51 Credit Hours

Physical Therapist Assistant (0151)

110 Introduction to Physical Therapy (HD)	2
140 Health Promotion and Wellness I	1
150 Therapeutic Procedures I	3
160 Orthopedic Practice and Exercise	4
170 Therapeutic Procedures II	3
171 Cardiopulmonary and Vascular Practice	2
200 Pathophysiology and Complex Systems	2
201 Neuromuscular Rehabilitation	3
211 PTA Clinical Education I	7
220 Physical Therapy Across the Lifespan	2
240 Health Promotion and Wellness II	2
260 Advanced PTA Clinical Education	7
Exercise Science and Sports Studies (0147)	
101 Personal Trainer Preparation	4
102 Personal Fitness Trainer Practicum	2
103 Allied Health Clinical Skills	2
112 Functional Anatomy and Kinesiology	5

Total Program Credit Hours 68 Credit Hours

PROGRAM OFFERED AT:



PRACTICAL NURSING**Advanced Certificate (0240)***

**Beginning Summer 2016, this program is no longer accepting new student at WR. Please refer to the Nursing program at Malcolm X.*

The Advanced Certificate program in Practical Nursing provides students with a basic knowledge of nursing theory and practice. Graduates of the practical nursing program meet the educational requirements for the National Council Licensure Examination for Practical Nurses (NCLEX-PN) to become a licensed practical nurse (LPN). Graduates of the program may transfer their credits to an associate or bachelor degree nursing program. If more applicants apply than the program can accept, the most qualified applicants will be accepted.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more info on the Advanced Certificate in Practical Nursing, please visit

[www.ccc.edu/programs/Pages/Nursing-\(Practical\)-Advanced-Certificate.aspx](http://www.ccc.edu/programs/Pages/Nursing-(Practical)-Advanced-Certificate.aspx)

Required Program Core 49 Credit Hours

English (0035)

101 Composition I3

Biology (0023)

120 Terminology for Medical Careers3

121 Biology I5

226 Human Structure and Function I4

227 Human Structure and Function II4

Mathematics (0045)

118 General Education Mathematics OR4

125 Introductory Statistics.....4

Nursing (0063)

150 Nursing Fundamentals I4

151 Nursing Fundamentals II4

152 Nursing Perspectives2

153 Nursing Through the Life Span I5

154 Nursing Through the Life Span II5

155 Nursing Through the Life Span III6

Total Program Credit Hours 49 Credit Hours

PROGRAM OFFERED AT:



RADIOGRAPHY

Associate in Applied Science (0246)*

**The Radiography program at Wilbur Wright College is no longer accepting new students. Students should enroll in Malcolm X College's Radiography program.*

The AAS in Radiography is the study of the theory, technical skills, patient care, and techniques necessary to use radiation in the diagnosis of disease. Completion of the program can lead to employment as an x-ray technologist or radiographer in private and public hospitals, clinics, and laboratories. The AAS degree in Radiography provides the necessary professional skills, progressive maturity, and the intellectual, social, and emotional values necessary for a graduate to be a trustworthy member of the healthcare team.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more info on the AAS degree in Radiography, please visit www.ccc.edu/programs/Pages/Radiography-Associate-in-Applied-Science.aspx

Program Prerequisites 11 Credit Hours

- Mathematics (0045)
 - 118 General Education Mathematics OR higher.....4
- Biology (0023)
 - 116 Anatomy and Physiology OR4
 - 121 Biology I AND.....5
 - 226 Human Structure and Function I AND.....4
 - 227 Human Structure and Function II4
- Health Professions (0146) OR Health Science (0124) OR
Biology (0023)
 - 102 Health Career Studies OR3
 - 102 Professional Medical and Health Care Practices OR.....3
 - 120 Terminology for Medical Careers3

General Education Coursework 12 Credit Hours


- English (0035)
 - 101 Composition I.....3
- Physics (0077)
 - 131 Mechanics and Power OR3
 - Other General Education Science course3
- Psychology (0087)
 - 201 General Psychology.....3
- Additional General Education course (excluding Biology 116). 3
One course must fulfill the Human Diversity (HD) requirement

Required Program Core 57 Credit Hours

- Radiography (0021)
 - 101 Introduction to Radiation Sciences.....2

- 102 Attitudes in Patient Care 2
- 105 Imaging Physics..... 4
- 115 Basic Principles of Image Production 3
- 124 Introduction to Patient Care 2
- 128 Image Evaluation 1
- 131 Radiographic Procedures I 2
- 140 Introduction to Clinical Education..... 3
- 141 Radiography Clinical Education I 3
- 200 Pathology..... 4
- 202 Radiology Management..... 1
- 205 Applied Radiographic Techniques 3
- 206 Imaging 2
- 208 Radiobiology 3
- 232 Radiographic Procedures II 4
- 233 Radiographic Procedures III 4
- 234 Special Radiographic Procedure 2
- 242 Radiography Clinical Education II 4
- 243 Radiography Clinical Education III..... 4
- 244 Radiography Clinical Education IV..... 4

Total Program Credit Hours 69 Credit Hours

PROGRAM OFFERED AT:  

REGISTERED NURSING COMPLETION

Associate in Applied Science (0381)*

**Beginning Summer 2016, this program is no longer accepting new students. Please refer to the Nursing program at Malcolm X.*

The AAS in RN Completion provides students who have completed the Practical Nursing program with the Nursing coursework that will result in an AAS in Nursing. This is a ladder program designed to provide an opportunity for Practical Nursing (PN) graduates to continue their education by building on their previous education rather than repeating previously learned material. The AAS in Nursing prepares students to become registered nurses (RN) through licensure from the Illinois Department of Financial and Professional Regulation (IDFPR), and meet critical, local, state and national needs for nursing professionals. Successful completion of the program will allow students to apply to sit for the NLEX-RN licensure exam.

For more info on the AAS degree in RN Completion, please visit [www.ccc.edu/programs/Pages/Nursing-\(RN-Completion\)-Associate-in-Applied-Science.aspx](http://www.ccc.edu/programs/Pages/Nursing-(RN-Completion)-Associate-in-Applied-Science.aspx)

Program Prerequisites 17 Credit Hours

- Biology (0023)
 - 121 Biology I5
 - 226 Human Structure and Function I4
 - 227 Human Structure and Function II4
- Chemistry (0073)
 - 121 Basic Chemistry I OR4
 - 201 General Chemistry I5

General Education Coursework 17 Credit Hours

- English (0035)
 - 101 Composition I3
- Mathematics (0045)
 - 118 General Education Mathematics OR4
 - 125 Introductory Statistics4
- Microbiology (0024)
 - 233 General Microbiology4
- Psychology (0087)
 - 201 General Psychology3
- Speech (0095)
 - 101 Fundamentals of Speech Communication3

Required Program Core 27 Credit Hours

- Nursing (0063)
 - 203 Nursing Leadership3
 - 210 Intermediate Medial Surgical Nursing6
 - 211 Maternal-Newborn/Mental Health6
 - 212 Pediatric/Gerontologic Nursing6

213 Advanced Medical Surgical..... 6

Required Work-Based Learning Courses 9 Credit Hours

Students must select a minimum of 9 credit hours from the following courses:

- Nursing (0063)
 - 150 Nursing Fundamentals I..... 4
 - 151 Nursing Fundamentals II..... 4
 - 152 Nursing Perspectives..... 2
 - 153 Nursing Through the Life Span I..... 5
 - 154 Nursing Through the Life Span II..... 5
 - 155 Nursing Through the Life Span III..... 6

Total Program Credit Hours 70 Credit Hours

PROGRAM OFFERED AT: 

RENAL DIALYSIS TECHNOLOGY**Advanced Certificate (0248)***

**Beginning Summer 2016, this program is no longer accepting new students. Please refer to CCC's other Healthcare offerings.*

The Advanced Certificate program Renal Dialysis Technology leads to certification through the Board of Nephrology Examiners Nursing and Technology. It prepares students for employment as Dialysis Technicians or Nephrology Technologists. They perform treatment and services to patients with end stage renal disease and/or dysfunction.

For more info on the Advanced Certificate in Renal Dialysis Technology, please visit www.ccc.edu/programs/Pages/Renal-Dialysis-Technology-Advanced-Certificate.aspx.

Required Program Core	36 Credit Hours
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Biology (0023)

116 Anatomy and Physiology.....	4
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Health Professions (0146)

101 Patient Care Technician Training.....	6
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Renal Technology/Nephrology (0018)

101 Introduction to Hemodialysis and Hemodialysis Procedures	3
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102 Basic Hemodialysis Procedures I.....	3
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103 Basic Hemodialysis Principles and Practice I.....	3
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106 Diagnostic Tests and Procedures in Nephrology	3
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108 Clinical Experience I.....	3
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109 Clinical Experience II.....	4
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202 Renal Disease and Pathophysiology.....	3
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203 Clinical Experience III.....	4
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Total Program Credit Hours	36 Credit Hours
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PROGRAM OFFERED AT:



RESPIRATORY CARE

Associate in Applied Science (0234)

The Associate in Applied Science degree in Respiratory Care will offer the study of theory and techniques instrumental in diagnosis, treatment, management, and preventive care of patients with cardiopulmonary problems. It will prepare the student to become a well-rounded professional and competent advanced respiratory therapist. The graduate will be eligible to take the National Board For Respiratory Care entry-level respiratory care practitioner examination to become a “Certified Respiratory Therapist” and the advanced level respiratory care practitioner examination to become a “Registered Respiratory Therapist.” Successful completion of the program can lead to employment as a respiratory therapist in hospitals, clinics or home settings or branch off into research, sales, education or other career opportunities.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more info on the Associate in Applied Science degree in Respiratory Care, please visit www.ccc.edu/programs/Pages/Respiratory-Care-Associate-in-Applied-Science.aspx

146 Ventilatory Mechanics II.....	3
200 Respiratory Care Lab III.....	2
222 Clinical Practice III.....	3
224 Clinical Practice IV.....	4
225 Age-Specific Care.....	3
227 Critical Care Service.....	4
230 Advanced Cardiopulmonary Monitoring.....	3
250 Cardiopulmonary Rehabilitation Home Care.....	1
260 Advanced Specialty Topics.....	3

Total Program Credit Hours 71 Credit Hours

PROGRAM OFFERED AT:



General Education Coursework 16 Credit Hours

English (0035)

101 Composition I.....	3
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Mathematics (0045)

118 General Education Mathematics OR higher (except Math 140).....	4
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Physics (0077)

131 Mechanics and Power.....	3
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Fine Arts & Humanities course.....3

Social Science course.....3

One course must fulfill the Human Diversity (HD) requirement

Required Program Core 55 Credit Hours

Respiratory Therapy (0061)

114 Basic Respiratory Care.....	4
115 Cardiopulmonary/Renal Anatomy and Physiology.....	3
116 Patient Assessment.....	2
117 Respiratory Pharmacology.....	1
118 Respiratory-Microbiology.....	2
119 Respiratory Care Lab I.....	3
127 Clinical Practice I.....	3
129 Clinical Practice II.....	3
137 Advanced Pathology and Clinical Application.....	3
139 Respiratory Care Lab II.....	2
141 Ventilatory Mechanics I.....	3

STERILE PROCESSING CLINICAL**Basic Certificate (0269)**

The Basic Certificate program in Sterile Processing Clinical presents the basic concepts and principles for developing skills and competencies required for infection prevention and control in the sterile processing department in a health care facility. The program offers basic knowledge related to instrumentation connected with surgical procedures. Students will be involved in processes such as cleaning, disinfecting, decontamination, sterilization, standard precautions, and universal precautions, as well as gain basic knowledge concerning various types of central service equipment such as ultrasonic cleaning, washer sterilizers, cart washers, autoclaves, steris, sterrad, and ethylene oxide (ETO) machines.

Note: Graduates are eligible to write the International Association of Healthcare Central Service Material Management Examination (IAHCSMM).

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more info on the Basic Certificate in Sterile Processing Clinical, please visit www.ccc.edu/programs/Pages/Sterile-Processing-Clinical-Basic-Certificate.aspx

Required Program Core 12 Credit Hours

English (0035)

101 Composition I 3

Surgical Technology (0016)

216 Sterile Processing Technology 4

217 Sterile Processing Technology–Lab 4

219 Professional Readiness 1

Required Work-Based Learning Courses 8 Credit Hours

Surgical Technology (0016)

218 Sterile Processing Clinical Practicum II 8

Total Program Credit Hours 20 Credit Hours

PROGRAM OFFERED AT:



SURGICAL TECHNOLOGY

Associate in Applied Science (0267)

The Associate in Applied Science degree program in Surgical Technology is designed for surgical technologies (formerly called operating room technicians) who perform many different responsibilities in the operating room. They act as the scrub person, as the circulator, and as the first assistant on the surgical team. Surgical technologists' responsibilities involve preparing the operating rooms and instruments, equipment, and supplies that will be needed; positioning and preparing the patient for surgery; and passing instruments, sponges, and sutures to the surgeon. Surgical technologists are the surgical team's expert in aseptic technique, being constantly vigilant for any break in the technique that could endanger the sterile field. Surgical technologists belong to a separate non-nursing profession and are highly skilled, having completed the necessary specialized education and training focusing on working in the operating room.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more info on the Associate in Applied Science degree in Surgical Technology, please visit <http://www.ccc.edu/programs/Pages/Surgical-Technology-Associate-in-Applied-Science.aspx>

**Required Work-Based Learning Courses 16
Credit Hours**

Surgical Technology (0016)	
212 Clinical Practicum I	8
213 Clinical Practicum II	8

Total Program Credit Hours 67 Credit Hours

PROGRAM OFFERED AT: 

General Education Coursework 15 Credit Hours

English (0035)	
101 Composition I	3
Sociology (0089)	
202 Sociology of Urban Life	3
Biology (0023)	
121 Biology I	5
Mathematics (0045)	
118 General Education Mathematics	4

Required Program Core 36 Credit Hours

Biology (0023)	
120 Terminology for Medical Careers	3
226 Human Structure and Function I	4
227 Human Structure and Function II	4
Surgical Technology (0016)	
111 Introduction to Surgical Technology	4
112 Application for Aseptic Technique	5
113 Surgical Pharmacology	4
114 Surgical Intervention I	5
116 Surgical Intervention II	5
215 Exam Review and Professional Success	2



INFORMATION TECHNOLOGY

Whether you are using a smart phone, computer, or the enormous database that stores information online, professionals are needed to design software, maintain information systems, and troubleshoot network issues. If you are interested in working with technology in an expanding and innovative environment, consider a career in the fast-growing Information Technology industry.

City Colleges offers transfer degrees—Associate in Arts (AA) and Associate in Science (AS)—that make transferring to a four-year college or university easy and convenient. There are several transfer pathways at CCC, which are suggested coursework that align with the area of study you are interested in. If a Focus Area offers any transfer pathways, they will be denoted in the below chart by the letter pairings AA or AS. Each pathway is hyperlinked to their Program Finder page where their semester map can be found.

To learn more about Information Technology at City Colleges of Chicago, visit www.ccc.edu/it.

DEGREES AND CERTIFICATES

	BASIC CERTIFICATE	ADVANCED CERTIFICATE	ASSOCIATE DEGREE
COMPUTER SCIENCE			
Computer Information Systems	*	X	X
Computer Science			AS
NETWORKING AND SECURITY			
A+ Certified Computer Technician	X		
Cybersecurity	●		
Networking Systems and Technology	●	●	AAS
WEB DEVELOPMENT			
Web Design	X		
Web Development*	●	●	AAS
Web Development			AS

* This program is only accepting new students at select colleges. Please refer to the program's course requirements for colleges still admitting new students.

X This program is no longer accepting new students.

● This program is offered and accepting new students.

A+ CERTIFIED COMPUTER TECHNICIAN

Basic Certificate (0806)*

**Beginning Summer 2017, this program is no longer accepting new students. Please refer to CCC's other IT offerings.*

The A+ Certified Computer Technician certificate program is an internationally recognized credential backed by major computer hardware and software companies. As a CompTIA Certified A+ Technician, graduates will be able to: analyze computer problems; disassemble any computer for rebuild or upgrade; design and operate a company's computer maintenance; recommend compatible hardware and software; and limit downtime and expensive repairs by providing immediate in-house action.

For more info on the Basic Certificate in A+ Certified Computer Technician, please visit www.ccc.edu/programs/Pages/A+Certified-Computer-Technician-Basic-Certificate.aspx.

142 C++ Object Oriented Programming I	3
144 Java Object Oriented Programming I.....	3
145 Database Management	3
158 Web Development I	3
181 Web Development I/Basic Web Technologies.....	3
182 Web Development II/Client Side Scripting	3
244 Java Object Oriented Programming II.....	3
258 Web Development II	3

Total Program Credit Hours 12 Credit Hours

PROGRAM OFFERED AT:      

Required Program Core 6 Credit Hours

Short-Term Business/Professional Services (0502)

240 Introduction to PC Hardware.....	1
241 PC Repair and Troubleshooting.....	2.5
242 PC Operating Systems.....	2.5

Total Program Credit Hours 6 Credit Hours

PROGRAM OFFERED AT  

COMPUTER INFORMATION SYSTEMS

Basic Certificate (0012)*

**Beginning Summer 2016, this program is no longer accepting new students at DA, KK, MX, OH, or WR.. Please refer to CCC's other IT offerings.*

For more info on the Basic Certificate in Computer Information Systems, please visit www.ccc.edu/programs/Pages/Computer-Information-Systems-Basic-Certificate.aspx.

Required Program Core 6 Credit Hours

Computer Information Systems (0032)

101 Computer Science 101.....	3
120 Introduction to Microcomputers.....	3

Electives 6 Credit Hours

Students must select a minimum of 6 credit hours from the following courses or others as recommended by a College Advisor:

Computer Information Systems (0032)

103 Fundamentals of Programming.....	3
122 Introduction to Word Processing on Microcomputers.....	3

COMPUTER INFORMATION SYSTEMS**Advanced Certificate (0013)***

**Beginning Summer 2016, this program is no longer accepting new students. Please refer to CCC's other IT offerings.*

For more info on the Advanced Certificate in Computer Information Systems, please visit www.ccc.edu/programs/Pages/Computer-Information-Systems-Advanced-Certificate.aspx.

Required Program Core **23 Credit Hours****Computer Information Systems (0032)**

101 Computer Science 101.....	3
250 Introduction to Systems.....	3

Business (0030)

181 Financial Accounting.....	4
182 Managerial Accounting.....	4

Students must select a minimum of 9 credit hours from the following courses or others as recommended by a College Advisor:

Computer Information Systems (0032)

103 Fundamentals of Programming.....	3
120 Introduction to Microcomputers.....	3
122 Introduction to Word Processing on Microcomputers.....	3
142 C++ Object Oriented Programming I.....	3
144 Java Object Oriented Programming I.....	3
145 Database Management.....	3
158 Web Development I.....	3
181 Web Development I/Basic Web Technologies.....	3
182 Web Development II/Client Side Scripting.....	3
235 Advanced COBOL Programming.....	3
244 Java Object Oriented Programming II.....	3
258 Web Development II.....	3

Electives **7 Credit Hours**

Students should meet with a College Advisor for selection of elective courses.

Total Program Credit Hours **30 Credit Hours**

PROGRAM OFFERED AT:     



COMPUTER INFORMATION SYSTEMS

Associate in Applied Science (0011)*

**Beginning Summer 2016, this program is no longer accepting new students. Please refer to CCC’s other IT offerings.*

The Associate in Applied Science degree can lead to entry-level jobs as programmer analysts, computer programmers, systems analysts, operations managers, network administrators, or unit supervisors in private and public firms or organizations. Advances in technology have increased the computer’s application in the factory, the office and the telecommunications industry. As computer use grows, so will the need for workers who are able to cope with change and adapt to new technologies.

For more info on the Associate in Applied Science degree in Computer Information Systems, please visit www.ccc.edu/programs/Pages/Computer-Information-Systems-Associate-in-Applied-Science.aspx.

General Education Coursework 15 Credit Hours

English (0035)

101 Composition I3

Additional General Education Courses..... 12

Select an additional 12 hours of general education courses from Communications, Fine Arts & Humanities, Mathematics, Social & Behavioural Sciences, or Physical & Life Sciences.

At least one course must meet the Human Diversity (HD) requirement.

Required Program Core 36 Credit Hours

Computer Information Systems (0032)

101 Computer Science 101.....3

120 Introduction to Microcomputers.....3

250 Introduction to Systems.....3

Business (0030)

111 Introduction to Business.....3

181 Financial Accounting4

182 Managerial Accounting.....4

Mathematics (0045)

118 General Education Mathematics OR higher.....4

Students must select a minimum of 12 credit hours from the following courses:

Computer Information Systems (0032)

103 Fundamentals of Programming.....3

122 Introduction to Word Processing on Microcomputers.....3

142 C++ Object Oriented Programming I.....3

144 Java Object Oriented Programming I.....3

145 Database Management.....3

158 Web Development I.....3

181 Web Development I/Basic Web Technologies..... 3

182 Web Development II/Client Side Scripting 3

244 Java Object Oriented Programming II..... 3

258 Web Development II 3

Electives 9 Credit Hours

Students should meet with a College Advisor for selection of elective courses.

Total Program Credit Hours 60 Credit Hours

PROGRAM OFFERED AT: 

CYBERSECURITY

Basic Certificate (0297)

For more info on the Basic Certificate in Cybersecurity, please visit <http://www.ccc.edu/programs/Pages/Computer-Security-and-Forensic-Investigation-Basic-Certificate.aspx>

Required Program Core 18 Credit Hours

Computer Information Systems (0032)

103 Fundamentals of Programming..... 3

116 Operating Systems I 3

255 Operating Systems II 3

Cybersecurity (0162)

102 Information Security Essentials..... 3


202 Cybercrime and Incident Response..... 3

Cybersecurity (0162) OR Networking Technologies (0165)

101 Networking Essentials OR 3

121 Internetworking I 3

Total Program Credit Hours 18 Credit Hours

PROGRAM OFFERED AT: 

**NETWORKING SYSTEMS AND
TECHNOLOGY**PROGRAM OFFERED AT:   **Basic Certificate (0143)**

For more info on the Basic Certificate in Networking Systems and Technology, please visit www.ccc.edu/programs/Pages/Networking-Systems-and-Technology-Basic-Certificate.aspx.

Required Program Core 18 Credit Hours

Computer Information Systems (0032)

101 Computer Science 101.....	3
111 Computer Operations.....	3
116 Operating Systems I.....	3
255 Operating Systems II.....	3

Networking Technologies (0165)

121 Internetworking I.....	3
122 Internetworking II.....	3

Total Program Credit Hours 18 Credit HoursPROGRAM OFFERED AT:   **NETWORKING SYSTEMS AND
TECHNOLOGY****Advanced Certificate (0142)**

For more info on the Advanced Certificate in Networking Systems and Technology, please visit www.ccc.edu/programs/Pages/Networking-Systems-and-Technology-Advanced-Certificate.aspx.

Required Program Core 30 Credit Hours

Computer Information Systems (0032)

101 Computer Science 101.....	3
111 Computer Operations.....	3
116 Operating Systems I.....	3
255 Operating Systems II.....	3

Networking Technologies (0165)

121 Internetworking I.....	3
122 Internetworking II.....	3
221 Internetworking III.....	3
222 Internetworking IV.....	3
240 Operating Systems/Server I.....	3

Cybersecurity (0162)

102 Information Security Essentials.....	3
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Total Program Credit Hours 30 Credit Hours

NETWORKING SYSTEMS AND TECHNOLOGY

Associate in Applied Science (0141)

This program is for students interested in administering and maintaining network equipment as well as software and services common in modern network infrastructures. Curriculum covers both hardware and software components. It also offers students relevant skills required in a variety of industry certifications including A+, Network+, CCENT, CCNA, and CCNA Security.

For more info on the Associate in Applied Science degree in Networking Systems and Technology, please visit www.ccc.edu/programs/Pages/Networking-Systems-and-Technology-Associate-in-Applied-Science.aspx.

General Education Coursework 16 Credit Hours

English (0035)	
101 Composition I	3
Mathematics (0045)	
118 General Education Mathematics OR higher	4
Fine Arts or Humanities course	3
Social & Behavioral Sciences course	3
Physical or Life Sciences course	3

At least one course must be an HD course.

Required Program Core 36 Credit Hours

Computer Information Systems (0032)	
101 Computer Science 101	3
111 Computer Operations	3
116 Operating Systems I	3
255 Operating Systems II	3
260 Computer Information Systems Field Project	3
Business (0030)	
111 Introduction to Business	3
Networking Technologies (0165)	
121 Internetworking I	3
122 Internetworking II	3
221 Internetworking III	3
222 Internetworking IV	3
240 Operating Systems/Server I	3
Cybersecurity (0162)	
102 Information Security Essentials	3

Program Electives 9 Credit Hours

Students must complete a minimum of 9 credit hours in the

subjects Computer Information Systems (0032), Networking Technologies (0165), or Cybersecurity (0162).

Total Program Credit Hours 61 Credit Hours

PROGRAM OFFERED AT:



WEB DESIGN

Basic Certificate (0811)*

*Beginning Summer 2016, this program is no longer accepting new students. Please refer to CCC's other IT offerings.

In the Web Design certificate program, students explore the essential elements of web design and utilize practical activities and step-by-step procedures to design, build, and post a website. Students will create templates for page layout and learn techniques for fine-tuning and modifying prepackaged Web page development software. They will learn how to convert and scale artwork and photographs for Web publication and use tables and templates to organize layouts.

For more info on the Basic Certificate in Web Design, please visit www.ccc.edu/programs/Pages/default.aspx.

Required Program Core 5 Credit Hours

Short-Term Business/Professional Services (0502)	
256 Dreamweaver	1
257 HTML/XHTML	1
258 Flash	1
259 Photoshop	1
260 Illustrator	1

Total Program Credit Hours 5 Credit Hours

PROGRAM OFFERED AT:



WEB DEVELOPMENT

Basic Certificate (0152)*

For more info on the Basic Certificate in Web Development, please visit www.ccc.edu/programs/Pages/Web-Development-Basic-Certificate.aspx.

Required Program Core 18 Credit Hours

- Computer Information Systems (0032)
- 101 Computer Science 101.....3
- 103 Fundamentals of Programming OR.....3
- *144 Java Object Oriented Programming I3
- 113 Human-Computer Interaction.....3
- 116 Operating Systems I.....3
- 181 Web Development I/Basic Web Technologies3
- 258 Web Development II3

*Students who intend to complete the Advanced Certificate and/or Associate in Applied Science degree in Web Development should take CIS 144 instead of CIS 103, as CIS 144 is required for both the AC and AAS degree.

Total Program Credit Hours 18 Credit Hours

PROGRAM OFFERED AT:     

- 281 Web Development III/Server Side Programming 3
- 282 Web Development IV/Web Database Integration 3
- Networking Technologies (0165)
- 101 Client-Server Database I..... 3

Total Program Credit Hours 30 Credit Hours

PROGRAM OFFERED AT:     

WEB DEVELOPMENT

Advanced Certificate (0155)*

The Advanced Certificate program in Web Development prepares students for entry-level positions as Web site editors, developers, or designers. Students acquire an understanding of programming principles and languages incorporated in Web pages, and become proficient in HTML and related technologies. This program will also be useful to individuals whose job duties have expanded to include web site responsibilities or who wish to develop web pages for their businesses.

For more info on the Advanced Certificate in Web Development, please visit www.ccc.edu/programs/Pages/Web-Development-Advanced-Certificate.aspx.

Required Program Core 30 Credit Hours

- Computer Information Systems (0032)
- 101 Computer Science 101.....3
- 113 Human-Computer Interaction.....3
- 114 Mobile Application Development.....3
- 116 Operating Systems I.....3
- 144 Java Object Oriented Programming I.....3
- 181 Web Development I/Basic Web Technologies3
- 182 Web Development II/Client Side Scripting3

WEB DEVELOPMENT**Associate in Applied Science (0409)**

The Web Development Associate in Applied Science program prepares students for entry-level positions in website design, development, and administration. Students will learn various programming principles, languages, and web technologies to effectively create and deploy dynamic websites. Students will also learn how to integrate web and database servers to increase the productivity and interactivity of a website. Potential job opportunities for students in this program include web designer, web developer, e-commerce manager, web technician, or web server administrator.

For more info on the Associate in Applied Science degree in Web Development, please visit www.ccc.edu/programs/Pages/Web-Development-Associate-in-Applied-Science.aspx.

requirement.

Total Program Credit Hours 61 Credit Hours

PROGRAM OFFERED AT:    

General Education Coursework 16 Credit Hours

English (0035)

101 Composition I 3

Mathematics (0045)

118 General Education Mathematics OR higher 4

Fine Arts or Humanities course 3

Social & Behavioral Sciences course 3

Physical or Life Sciences course 3

Required Program Core 36 Credit Hours

Computer Information Systems (0032)

101 Computer Science 101 3

113 Human-Computer Interaction 3

114 Mobile Application Development 3

116 Operating Systems I 3

144 Java Object Oriented Programming I 3

181 Web Development I/Basic Web Technologies 3

182 Web Development II/Client Side Scripting 3

260 Computer Information Systems Field Project 3

281 Web Development III/Server Side Programming 3

282 Web Development IV/Web Database Integration 3

Business (0030)

111 Introduction to Business 3

Networking Technologies (0165)

101 Client-Server Database I 3

Program Electives 9 Credit Hours

Students must complete a minimum of 9 credit hours in the subjects Computer Information Systems (0032), Networking Technologies (0165), or Cybersecurity (0162).

At least one course must meet the Human Diversity (HD)



HUMAN SCIENCES (LIBERAL ARTS)

If you are interested in completing your general education requirements and transferring to a bachelor's degree program while saving thousands of dollars along the way, consider a program in Human Sciences (Liberal Arts). This program includes many pathways that lead directly to four-year institutions, like history, politics, language, literature, and fine and performing arts.

City Colleges offers transfer degrees—Associate in Arts (AA) and Associate in Science (AS)—that make transferring to a four-year college or university easy and convenient. There are several transfer pathways at CCC, which are suggested coursework that align with the area of study you are interested in. If a Focus Area offers any transfer pathways, they will be denoted in the below chart by the letter pairings AA or AS. Each pathway is hyperlinked to their Program Finder page where their semester map can be found.

To learn more about Human Sciences (Liberal Arts) at City Colleges of Chicago, visit www.ccc.edu/humansciences.

DEGREES AND CERTIFICATES

COSMETOLOGY	BASIC CERTIFICATE	ADVANCED CERTIFICATE	ASSOCIATE DEGREE
Cosmetology		●	
Cosmetology Teacher Training (1,000-Hour Program)	●		
Cosmetology Teacher Training (500-Hour Program)	●		
FINE ARTS			
Art (Studio)			AFA
Music Business	●		
Music Education			AFA
Music Performance			AFA
Music Technology	●		
LAW AND SAFETY			
Criminal Justice			AA
Criminal Justice: Private Police Services	●	●	
Criminal Justice: Public Police Services*	●	●	AAS
Emergency Management**			AAS
Emergency Preparedness	●		
Homeland Security	●		
Incident Command	●		
Unarmed Security Guard	●		

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● This program is offered and accepting new students.

* This program is only accepting new students at select colleges. Please refer to the program's course requirements for colleges still admitting new students.

** There are three different concentrations in the Emergency Management program for students to choose from.

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LIBERAL ARTS	BASIC CERTIFICATE	ADVANCED CERTIFICATE	ASSOCIATE DEGREE
Communications			AA
Comparative Religion			AA
Dance			AA
English			AA
History			AA
Human Geography			AA
International Studies			AA
Journalism			AA
Philosophy			AA
Political Science			AA
Psychology			AA
Sociology			AA
Theater Art			AA
Urban Studies			AA
World Languages			AA
SOCIAL SERVICES			
Addictions Studies*	●	●	AAS
Advanced Social Services–Addictions Studies		●	AAS
Human Development and Family Studies			AA
Human Development and Family Studies	●		AAS
Psychiatric Rehabilitation	●		
Social Work			AA
Social Work: Generalist		X	AAS
Social Work: Youth Work	X	X	X
VISUAL ARTS			
Digital Multimedia Design	●	●	AAS
Media Communications**			AAS
Visual Media Communications***	●	●	AAS

● This program is offered and accepting new students.

* This program is only accepting new students at select colleges. Please refer to the program's course requirements for colleges still admitting new students.

** The Associate in Applied Science degree in Media Communications has two different areas of concentration for students to choose from.

*** There are two different Basic Certificates in the Visual Media Communications program for students to choose from.

X This program is no longer accepting new students.

ADDICTIONS STUDIES

Basic Certificate (0345)*

**Beginning Summer 2016, this program is no longer accepting new students at Harold Washington. Please refer to the Addictions Studies program at Kennedy-King.*

This Basic Certificate program in Addictions Studies provides students with the academic requirements needed in the application for the Certified Alcohol and Other Drugs Counselor (CADC) examination.

For more info on the Basic Certificate in Addictions Studies, please visit www.ccc.edu/programs/Pages/Addictions-Studies-Basic-Certificate.aspx.

Required Program Core 12 Credit Hours

Mental Health (0118)

223 Introduction to Addictions Studies.....	3
224 Principles and Practices of Addictions Studies	3
230 Addictions and Family Treatment.....	3
231 Addictions Treatment of Special Populations.....	3

**Required Work-Based Learning Courses
6 Credit Hours**

Mental Health (0118)

229 Practicum in Addictions Treatment.....	6
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Total Program Credit Hours 18 Credit Hours

PROGRAM OFFERED AT:   

ADDICTIONS STUDIES

Advanced Certificate (0343)*

**Beginning Summer 2016, this program is no longer accepting new students at Harold Washington. Please refer to the Addictions Studies program at Kennedy-King.*

For more info on the Advanced Certificate in Addictions Studies, please visit www.ccc.edu/programs/Pages/Addictions-Studies-Advanced-Certificate.aspx.

Required Program Core 31 Credit Hours

Child Development (0090)

101 Human Growth and Development I.....	4
102 Human Growth and Development II.....	3

Mental Health (0118)

223 Introduction to Addictions Studies.....	3
224 Principles and Practices of Addictions Studies	3
230 Addictions and Family Treatment.....	3
231 Addictions Treatment of Special Populations.....	3

Social Service (0091)

101 Introduction to Social Work.....	3
109 Report Writing for Social Service Aides.....	3
201 Principles of Social Work Practice	3
212 Introduction to Group Process	3

**Required Work-Based Learning Courses
6 Credit Hours**

Mental Health (0118)

229 Practicum in Addictions Treatment.....	6
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Total Program Credit Hours 37 Credit Hours

PROGRAM OFFERED AT:  

ADDICTIONS STUDIES

Associate in Applied Science (0344)*

**Beginning Summer 2016, this program is no longer accepting new students at Harold Washington. Please refer to the Addictions Studies program at Kennedy-King.*

The Associate in Applied Science degree program in Addictions Studies is ideal for prospective mental health practitioners or those already working in the field who wish to receive training and credentials in Addictions Studies. Many Addictions Studies practitioners find employment in medical and non-medical detoxification centers, rehabilitation programs, community mental health centers and family service centers, halfway houses, therapeutic communities, business, or industry. Some combine counseling with such primary professions as nursing, social work, school guidance counseling, or the clergy.

The program is accredited by the Illinois Alcoholism and Other Drug Abuse Professional Certification Association (IAODAPCA).

For more info on the Associate in Applied Science degree in Addictions Studies, please visit www.ccc.edu/programs/Pages/Addictions-Studies-Associate-in-Applied-Science.aspx.

General Education Coursework 15 Credit Hours

Communications course.....	3
Fine Arts & Humanities course.....	3
Social & Behavioral Sciences course.....	3
Physical & Life Sciences course.....	3
Mathematics course.....	3

Required Program Core 37 Credit Hours

Child Development (0090)	
101 Human Growth and Development I.....	4
102 Human Growth and Development II.....	3
Mental Health (0118)	
223 Introduction to Addictions Studies.....	3
224 Principles and Practices of Addictions Studies.....	3
230 Addictions and Family Treatment.....	3
231 Addictions Treatment of Special Populations.....	3
Psychology (0087)	
201 General Psychology.....	3
213 Abnormal Psychology.....	3
Social Service (0091)	
101 Introduction to Social Work.....	3
109 Report Writing for Social Service Aides.....	3
201 Principles of Social Work Practice.....	3
212 Introduction to Group Process.....	3

**Required Work-Based Learning Courses
6 Credit Hours**

Mental Health (0118)	
229 Practicum in Addictions Treatment.....	6

Program Electives 6 Credit Hours

Students must take 6 credit hours of electives. Courses in such fields as Education, Gerontology, Nursing, Psychology, Sociology, and Speech/Communications are valuable to primary studies in alcoholism and substance abuse. Students should meet with a College Advisor for selection of elective courses.

Total Program Credit Hours 64 Credit Hours

PROGRAM OFFERED AT:  

ADVANCED SOCIAL SERVICES– ADDICTIONS STUDIES

Advanced Certificate (0411)

For more info on the Advanced Certificate in Advanced Social Services–Addictions Studies, please visit www.ccc.edu/programs/Pages/Advanced-Social-Services-Addictions-Studies-Advanced-Certificate.aspx.

Required Program Core 34 Credit Hours

Child Development (0090)

101 Human Growth and Development I.....4

Social Service (0091)

109 Report Writing for Social Service Aides3

201 Principles of Social Work Practice3

212 Introduction to Group Process3

215 Social Problems and Social Action I.....3

228 Methodology for Social Work3

Mental Health (0118)

223 Introduction to Addictions Studies.....3

224 Principles and Practices of Addictions Studies3

228 Principles of Mental Health Practices.....3

230 Addictions and Family Treatment.....3

231 Addictions Treatment for Special Populations.....3

Required Work-Based Learning Courses

15 Credit Hours

Social Service (0091)

229 Social Service Practicum6

230 Domestic Violence Practicum3

Mental Health (0118)

229 Mental Health Practicum6

Total Program Credit Hours 49 Credit Hours

PROGRAM OFFERED AT: 

**ADVANCED SOCIAL SERVICES–
ADDICTIONS STUDIES**

Associate in Applied Science (0410)

The AAS degree in Advanced Social Services–Addictions Studies is ideal for prospective mental health practitioners, or those already working in the field that wish to advance their knowledge in the core competencies of both addictions studies and social work. The program will focus on the generalist’s approach to counseling, training, and industry credentialing in addictions studies and social work, with emphasis on the practices of working with individuals, families, groups, and communities. Many mental health/social work practitioners find employment in medical and non-medical detoxification centers, rehabilitation programs, community mental health centers, family service centers, halfway house, hospitals, therapeutic communities, business, and other industries. Some mental health professionals combine counseling with such primary professions such as nursing, social work, school guidance counseling, or clergy.

For more info on the Associate in Applied Science degree in Advanced Social Services–Addictions Studies, please visit www.ccc.edu/programs/Pages/Advanced-Social-Services-Addictions-Studies-Associate-in-Applied-Science.aspx.

General Education Coursework 15 Credit Hours

- English (0035)
 - 101 Composition I 3
 - 102 Composition II 3
- Mathematics (0045) **OR** Biology (0023)
 - 125 Introductory Statistics **OR** 4
 - 107 Nutrition-Consumer Education 3
- Psychology (0087) **OR** Sociology (0089)
 - 201 General Psychology **OR** 3
 - 201 Introduction to the Study of Society (HD) 3
- Africana Studies (0117) **OR** Humanities (0041)
 - 101 Introduction to African-American Studies (HD) **OR** 3
 - 212 Non-Western Humanities (HD) 3

Required Program Core 37 Credit Hours

- Child Development (0090)
 - 101 Human Growth and Development I 4
 - 102 Human Growth and Development II 3
- Social Service (0091)
 - 101 Introduction to Social Work 3
 - 109 Report Writing for Social Service Aides 3
 - 201 Principles of Social Work Practice 3
 - 212 Introduction to Group Process 3
 - 215 Social Problems and Social Action I 3
 - 228 Methodology for Social Work 3
- Mental Health (0118)

- 223 Introduction to Addictions Studies 3
- 224 Principles and Practices of Addictions Studies 3
- 230 Addictions and Family Treatment 3
- 231 Addictions Treatment for Special Populations 3

**Required Work-Based Learning Courses
12 Credit Hours**

- Social Service (0091)
 - 229 Social Service Practicum 6
- Mental Health (0118)
 - 229 Mental Health Practicum 6

Program Electives 6 Credit Hours

- Social Service (0091)
 - 230 Domestic Violence Practicum 3
- Mental Health (0118)
 - 228 Principles of Mental Health Practices 3

Total Program Credit Hours 70 Credit Hours

PROGRAM OFFERED AT: 

This program has been updated please see Addendum

ART (STUDIO)

Associate in Fine Arts (0216)

The AFA degree offers courses required for transfer to a four-year institution for students majoring in art (studio), music education, or music performance. Completion of the AFA degree does not fulfill the requirements of the Illinois Transferable General Education Core Curriculum (IAI GECC). A student must complete the general education requirements of the college or university to which they transfer.

For more info on the Associate in Fine Arts degree in Art (Studio), please visit [www.ccc.edu/programs/Pages/Associate-in-Fine-Arts---Art-\(Studio\).aspx](http://www.ccc.edu/programs/Pages/Associate-in-Fine-Arts---Art-(Studio).aspx).

General Education Coursework 31 Credit Hours

English (0035)

101 Composition I3

102 Composition II3

Speech (0095)

101 Fundamentals of Speech Communication3

Mathematics (0045)

118 General Education Mathematics OR4

125 Introductory Statistics.....4

Physical & Life Sciences

Minimum one course each in Physical & Life Sciences; one course must be a lab.

2 courses6

Social & Behavioral Sciences

2 courses6

Fine Arts & Humanities

2 courses6

Students can take only one of Humanities 123 or Humanities 201 to satisfy the above requirement.

One course must fulfill the Human Diversity (HD) requirement

Required Program Core 21 Credit Hours

Art (0010)

131 General Drawing3

132 Advanced General Drawing3

142 Figure Draw and Composition.....3

144 Two-Dimensional Design3

145 Three-Dimensional Design.....3

Fine Arts (0042)

107 History of Architecture, Painting, and Sculpture I3

108 History of Architecture, Painting, and Sculpture II3

Program Electives 9 Credit Hours

Students must select a minimum of 9 credit hours from the following courses:

Art (0010)

115 Photography 3

116 Advanced Photography2

117 Beginning Color Photography 2

126 Printmaking I..... 3

143 Advanced Figure Drawing..... 3

166 Oil Painting Techniques 3

167 Advanced Oil Painting Techniques 3

196 Ceramics..... 3

197 Advanced Ceramics and Sculpture..... 3

198 Sculpture I..... 3

Total Program Credit Hours 61 Credit Hours

PROGRAM OFFERED AT:  

COSMETOLOGY

Advanced Certificate (0349)

The Advanced Certificate program in the field of Cosmetology offers challenging and rewarding opportunities designed to give students thorough training in the art, skill and applied science used in the treatment of hair, nails, and skin. The program meets the standards of the Illinois Department of Finance and Professional Regulation (IDFPR) in total hours, teaching staff, equipment, facilities, libraries, and course content.

Students are required to complete a specific number of hours in the Technical Center Styling Salon. Once students have completed all coursework and laboratory hours, they are ready to sit for the licensure examination through the IDFPR. Students must be licensed in order to practice Cosmetology in Illinois.

For more info on the Advanced Certificate in Cosmetology, please visit www.ccc.edu/programs/Pages/Cosmetology-Advanced-Certificate.aspx.

Required Program Core 36 Credit Hours

Cosmetology (0163)	
101 Introduction to Cosmetology/Cosmetic Art.....	5
102 Hair-Shaping Technology.....	5
103 Basic Styling Technology.....	5
104 Hair Tinting Technology.....	3
105 Salon Technology I.....	5
106 Salon Technology II.....	5
201 Advanced Styling Technology.....	4
202 Summative Seminar.....	4

Total Program Credit Hours 36 Credit Hours

PROGRAM OFFERED AT: 

**COSMETOLOGY TEACHER TRAINING
1,000-HOUR PROGRAM**

Basic Certificate (0415)

The purpose of the Cosmetology Teacher Training Program is to provide students the opportunity to prepare, train and develop skills necessary to teach cosmetology or any practices related to the Cosmetology industry. This training will allow individuals to enter a skilled workforce which will promote personal and economic growth, contribute to community stability and provide and improve quality of life. This course is intended for any person who has an active State of Illinois Cosmetology License and is pursuing to further their education by obtaining a Cosmetology Teacher's License.

For more info on the Basic Certificate in Cosmetology Teacher Training, please visit www.ccc.edu/programs/Pages/Cosmetology-Teacher-Training-Basic-Certificate-1000-Hour-Program.aspx.

Required Program Core 12 Credit Hours

Cosmetology (0163)

211 Post-Graduate Cosmetology Training I.....	6
212 Post-Graduate Cosmetology Training II.....	6

**Required Work-Based Learning Courses
16 Credit Hours**

Cosmetology (0163)

223 Basic Teaching Skills for Career Education Instructors .	8
224 Principles and Practices in Cosmetology Education	8

Total Program Credit Hours 28 Credit Hours

PROGRAM OFFERED AT: 

**COSMETOLOGY TEACHER TRAINING 500-
HOUR PROGRAM**

Basic Certificate (0416)

The purpose of the Cosmetology Teacher Training Program is to provide students the opportunity to prepare, train and develop skills necessary to teach cosmetology or any practices related to the Cosmetology industry. This training will allow individuals to enter a skilled workforce which will promote personal and economic growth, contribute to community stability and provide and improve quality of life. This course is intended for any person who has an active State of Illinois Cosmetology License and is pursuing to further their education by obtaining a Cosmetology Teacher's License.

For more info on the Basic Certificate in Cosmetology Teacher Training, please visit www.ccc.edu/programs/Pages/Cosmetology-Teacher-Training-Basic-Certificate-500-Hour-Program.aspx.

**Required Work-Based Learning Courses
16 Credit Hours**

Cosmetology (0163)

223 Basic Teaching Skills for Career Education Instructors .	8
224 Principles and Practices in Cosmetology Education	8

Total Program Credit Hours 16 Credit Hours

PROGRAM OFFERED AT: 

CRIMINAL JUSTICE: PRIVATE POLICE SERVICES

Basic Certificate (0326)

For more info on the Basic Certificate in Criminal Justice: Private Police Services, please visit www.ccc.edu/programs/Pages/Criminal-Justice-Private-Police-Services-Basic-Certificate.aspx.

Required Program Core 18 Credit Hours

- Criminal Justice (0080)
 - 102 Administration of Criminal Justice 3
 - 170 Scope and Purpose of Private Police..... 3
 - 172 Management and Supervision for Private Police 3
 - 174 Law for Private Police 3
 - 211 Introduction to Investigation 3
 - 222 Professional Responsibility 3

Total Program Credit Hours 18 Credit Hours

PROGRAM OFFERED AT: 

CRIMINAL JUSTICE: PRIVATE POLICE SERVICES

Advanced Certificate (0319)

The Advanced Certificate program in Criminal Justice: Private Police is focused on the study of theory and practices of current trends in private police services, criminal and civil law for private security officers. The program can lead to promotion to security directors, middle-management positions or self-employment.

For more info on the Advanced Certificate in Criminal Justice: Private Police Services, please visit www.ccc.edu/programs/Pages/Criminal-Justice-Private-Police-Services-Advanced-Certificate.aspx.

Required Program Core 30 Credit Hours

- Criminal Justice (0080)
 - 102 Administration of Criminal Justice 3
 - 114 Administration of Juvenile Justice 3
 - 170 Scope and Purpose of Private Police..... 3
 - 172 Management and Supervision for Private Police 3
 - 174 Law for Private Police 3
 - 211 Introduction to Investigation 3
 - 222 Professional Responsibility 3
 - 234 Criminal Law and Procedure 3
- Computer Information Systems (0032)
 - 120 Introduction to Microcomputers 3
- English (0035)

107 Report Writing..... 3
Total Program Credit Hours 30 Credit Hours

PROGRAM OFFERED AT: 

CRIMINAL JUSTICE: PUBLIC POLICE SERVICES

Basic Certificate (0296)*

**Beginning Fall 2016, this program is no longer accepting new students at Harold Washington. Please refer to CCC's transfer degree in Criminal Justice.*

For more info on the Basic Certificate in Criminal Justice: Public Police Services, please visit www.ccc.edu/programs/Pages/Criminal-Justice-Public-Police-Services-Basic-Certificate.aspx.

Required Program Core 15 Credit Hours

Criminal Justice (0080)

102 Administration of Criminal Justice	3
114 Administration of Juvenile Justice	3
202 Issues in Criminal Justice.....	3
211 Introduction to Investigation	3
234 Criminal Law and Procedure OR	3
256 Constitutional Law.....	3

Total Program Credit Hours 15 Credit Hours

PROGRAM OFFERED AT: 

CRIMINAL JUSTICE: PUBLIC POLICE SERVICES

Advanced Certificate (0295)*

**Beginning Fall 2016, this program is no longer accepting new students at Harold Washington. Please refer to CCC's transfer degree in Criminal Justice.*

For more info on the Advanced Certificate in Criminal Justice: Public Police Services, please visit www.ccc.edu/programs/Pages/Criminal-Justice-Public-Police-Services-Advanced-Certificate.aspx.

Required Program Core 30 Credit Hours

Criminal Justice (0080)

102 Administration of Criminal Justice	3
114 Administration of Juvenile Justice	3
202 Issues in Criminal Justice.....	3
211 Introduction to Investigation	3
221 Police Organization and Management	3
222 Professional Responsibility	3
234 Criminal Law and Procedure	3
256 Constitutional Law.....	3

Computer Information Systems (0032)

120 Introduction to Microcomputers.....	3
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Criminal Justice (0080) OR English (0035)

155 Introduction to Corrections OR	3
107 Report Writing.....	3

Total Program Credit Hours 30 Credit Hours

PROGRAM OFFERED AT: 

CRIMINAL JUSTICE: PUBLIC POLICE SERVICES

Associate in Applied Science (0294)*

**Beginning Fall 2016, this program is no longer accepting new students at Harold Washington. Please refer to CCC's transfer degree in Criminal Justice.*

The AAS program in Criminal Justice: Public Police Services studies the theory and practice of contemporary criminal justice for students who plan on careers as police officers or other criminal justice positions, as well as police who wish to advance in rank or into administrative level of criminal justice.

For more info on the Associate in Applied Science degree in Criminal Justice: Public Police Services, please visit www.ccc.edu/programs/Pages/Criminal-Justice-Public-Police-Services-Associate-in-Applied-Science.aspx.

General Education Coursework 15 Credit Hours

English (0035)

101 Composition I3

Fine Arts & Humanities course (HD)3

Social & Behavioral Sciences course3

Mathematics & Science course3

Additional General Education course3

Required Program Core 33 Credit Hours

Criminal Justice (0080)

102 Administration of Criminal Justice3

114 Administration of Juvenile Justice3

202 Issues in Criminal Justice.....3

211 Introduction to Investigation3

221 Police Organization and Management3

222 Professional Responsibility3

234 Criminal Law and Procedure.....3

256 Constitutional Law.....3

Computer Information Systems (0032)

120 Introduction to Microcomputers3

Students must select a minimum of 6 credit hours from the following courses:

Political Science (0086)

201 The National Government3

Psychology (0087)

201 General Psychology3

Sociology (0089)

201 Introduction to the Study of Society (HD)3

Program Electives 12 Credit Hours

Students must select a minimum of 12 credit hours from the

following courses or others as recommended by a College Advisor:

Criminal Justice (0080)

155 Introduction to Corrections3

250 Introduction to Criminology3

English (0035)

107 Report Writing3

Additional Elective3

One course must fulfill the Human Diversity (HD) requirement

Total Program Credit Hours 60 Credit Hours

PROGRAM OFFERED AT:      

DIGITAL MULTIMEDIA DESIGN

Basic Certificate (0354)

For more info on the Basic Certificate in Digital Multimedia Design, please visit www.ccc.edu/programs/Pages/Digital-Multimedia---Interactive-Media-Basic-Certificate.aspx.

Required Program Core 18 Credit Hours

Art (0010)

176 Graphic Design I3

Digital Multimedia Design (0138)

130 Principles of Design and Development for Digital Media3

131 Beginning Multimedia Design and Development3

168 Computer Art I3

231 Intermediate Multimedia Design and Development3

233 Advanced Multimedia Design and Development3

Total Program Credit Hours 18 Credit Hours

PROGRAM OFFERED AT: 

DIGITAL MULTIMEDIA DESIGN

Advanced Certificate (0351)

For more info on the Advanced Certificate in Digital Multimedia Design, please visit www.ccc.edu/programs/Pages/Digital-Multimedia-Design-Advanced-Certificate.aspx.

Required Program Core 27 Credit Hours

Art (0010)	
131 General Drawing	3
176 Graphic Design I	3
Digital Multimedia Design (0138)	
130 Principles of Design and Development for Digital Media	3
131 Beginning Multimedia Design and Development.....	3
168 Computer Art I.....	3
231 Intermediate Multimedia Design and Development.....	3
233 Advanced Multimedia Design and Development.....	3
268 Advanced Computer Art.....	3
299 Portfolio and Professional Practice Seminar	3

Program Electives 3 Credit Hours

Digital Multimedia Design (0138)	
105 Two-Dimensional Animation OR	3
121 Three-Dimensional Modeling OR	3
179 Digital Video I.....	3

Total Program Credit Hours 30 Credit Hours

PROGRAM OFFERED AT: 

DIGITAL MULTIMEDIA DESIGN

Associate in Applied Science (0350)

The AAS in Digital Multimedia Design is designed to prepare students for entry-level positions in the field of interactive and multimedia design, and for possible transfer to a four-year institution. Requirements for Digital Multimedia Design will equip students with the skills to create digital multimedia presentations; output can be delivered on CD, DVD, video, or in the form of webpages over the Internet.

For more info on the Associate in Applied Science degree in Digital Multimedia Design, please visit www.ccc.edu/programs/Pages/Digital-Multimedia-Design-Associate-in-Applied-Science.aspx.

General Education Coursework 22 Credit Hours

English (0035)	
101 Composition I.....	3
102 Composition II.....	3
Mathematics (0045)	

118 General Education Mathematics OR higher.....	4
Fine Arts (0042)	
107 History of Architecture, Painting, and Sculpture I OR....	3
108 History of Architecture, Painting, and Sculpture II.....	3
Humanities (0041) OR Philosophy (0043)	
105 The New World of Mass Media OR	3
225 Philosophy of Art.....	3
Physical & Life Sciences course	
Social & Behavioral Sciences course.....	3

Required Program Core 42 Credit Hours

Art (0010)	
131 General Drawing OR	3
142 Figure Draw and Composition	3
144 Two-Dimensional Design.....	3
176 Graphic Design I.....	3
Digital Multimedia Design (0138)	
105 Two-Dimensional Animation	3
121 Three-Dimensional Modeling.....	3
130 Principles of Design and Development for Digital Media	3
131 Beginning Multimedia Design and Development	3
168 Computer Art I	3
179 Digital Video I.....	3
231 Intermediate Multimedia Design and Development	3
233 Advanced Multimedia Design and Development	3
268 Advanced Computer Art.....	3
279 Digital Video II.....	3
299 Portfolio and Professional Practice Seminar.....	3

Program Electives 3 Credit Hours

Digital Multimedia Design (0138)	
115 Digital Audio OR	3
205 Advanced Animation OR.....	3
221 Three-Dimensional Animation.....	3

One course must fulfill the Human Diversity (HD) requirement

Total Program Credit Hours 67 Credit Hours

PROGRAM OFFERED AT: 

EMERGENCY MANAGEMENT EMERGENCY PREPAREDNESS TRACK

Associate in Applied Science (0355)

The Emergency Management AAS degree program was developed in response to a long recognized need for a systematized approach to preparing emergency managers. Following recommendations of the model curriculum of the Federal Emergency Management Agency's Higher Education Program, students choose from one of the three Emergency Management program tracks: Emergency Preparedness, Homeland Security, or Incident Command.

For more info on the Associate in Applied Science degree in Emergency Management: Emergency Preparedness, please visit www.ccc.edu/programs/Pages/Emergency-Management-Emergency-Preparedness-Associate-in-Applied-Science.aspx.

General Education Coursework 19 Credit Hours

English (0035)

101 Composition I 3

Chemistry (0073)

121 Basic Chemistry I 4

Computer Information Systems (0032)

120 Introduction to Microcomputers 3

Psychology (0087)

201 General Psychology 3

Speech (0095)

101 Fundamentals of Speech Communication 3

Fine Arts & Humanities course (HD) 3

Required Program Core 35 Credit Hours

Environmental Technology (0027)

100 Introduction to Emergency Management 3

101 Basic Skills in Emergency Management 3

103 Introduction to Emergency Planning 3

108 Mitigation Management 3

112 Disaster Response and Recovery 4

113 Emergency Resource Management 3

203 Advanced Emergency Planning 3

222 Emergency Management Operations II 4

225 Psychology of Terrorism OR 3

226 Disaster Psychology 3

Program Electives 10 Credit Hours

Students must select a minimum of 10 credit hours from the following courses:

Computer Information Systems (0032)

116 Operating Systems I 3

Computer Security and Forensic Investigation (0162)

102 Information Security Essentials 4

213 Information Security Technology 3

Emergency Medical Technician (0120)

101 EMT Basic 3

Environmental Technology (0027)

121 Introduction to Hazardous and Materials Management . 3

122 Disaster Site Worker 3

123 Chemical Emergency Response 3

131 Environmental Health and Safety 3

141 Site Investigation and Sampling 3

181 Emergency Response Level I, II, III 3

Total Program Credit Hours 64 Credit Hours

PROGRAM OFFERED AT:



EMERGENCY MANAGEMENT HOMELAND SECURITY TRACK

Associate in Applied Science (0355)

The Emergency Management AAS degree program was developed in response to a long recognized need for a systematized approach to preparing emergency managers. Following recommendations of the model curriculum of the Federal Emergency Management Agency's Higher Education Program, students choose from one of the three Emergency Management program tracks: Emergency Preparedness, Homeland Security, or Incident Command.

For more info on the Associate in Applied Science degree in Emergency Management: Homeland Security, please visit www.ccc.edu/programs/Pages/Emergency-Management-Homeland-Security-Associate-in-Applied-Science.aspx.

General Education Coursework 19 Credit Hours

English (0035)	
101 Composition I	3
Chemistry (0073)	
121 Basic Chemistry I	4
Computer Information Systems (0032)	
120 Introduction to Microcomputers	3
Psychology (0087)	
201 General Psychology	3
Speech (0095)	
101 Fundamentals of Speech Communication	3
Fine Arts & Humanities course (HD)	3

Required Program Core 35 Credit Hours

Environmental Technology (0027)	
100 Introduction to Emergency Management OR	3
150 Introduction to Homeland Security	3
101 Basic Skills in Emergency Management OR	3
160 Intelligence Analysis and Security Management	3
106 Introduction to Terrorism OR	3
170 Transportation and Border Security	3
112 Disaster Response and Recovery	4
115 Introduction to Weapons of Mass Destruction	3
205 Terrorism Planning	3
215 Advanced Weapons of Mass Destruction	3
222 Emergency Management Operations II	4
225 Psychology of Terrorism OR	3
226 Disaster Psychology	3

Program Electives 10 Credit Hours

Students must select a minimum of 10 credit hours from the following courses:

Computer Information Systems (0032)	
116 Operating Systems I	3
Computer Security and Forensic Investigation (0162)	
102 Information Security Essentials	4
213 Information Security Technology	3
Emergency Medical Technician (0120)	
101 EMT Basic	3
Environmental Technology (0027)	
121 Introduction to Hazardous and Materials Management .	3
122 Disaster Site Worker	3
123 Chemical Emergency Response	3
131 Environmental Health and Safety	3
141 Site Investigation and Sampling	3
181 Emergency Response Level I, II, III	3

Total Program Credit Hours 64 Credit Hours

PROGRAM OFFERED AT 

EMERGENCY MANAGEMENT INCIDENT COMMAND TRACK

Associate in Applied Science (0355)

The Emergency Management AAS degree program was developed in response to a long recognized need for a systematized approach to preparing emergency managers. Following recommendations of the model curriculum of the Federal Emergency Management Agency's Higher Education Program, students choose from one of the three Emergency Management program tracks: Emergency Preparedness, Homeland Security, or Incident Command.

For more info on the Associate in Applied Science degree in Emergency Management: Incident Command, please visit www.ccc.edu/programs/Pages/Emergency-Management-Incident-Command-Associate-in-Applied-Science.aspx.

General Education Coursework 19 Credit Hours

English (0035)

101 Composition I 3

Chemistry (0073)

121 Basic Chemistry I 4

Computer Information Systems (0032)

120 Introduction to Microcomputers 3

Psychology (0087)

201 General Psychology 3

Speech (0095)

101 Fundamentals of Speech Communication 3

Fine Arts & Humanities course (HD) 3

Required Program Core 35 Credit Hours

Environmental Technology (0027)

100 Introduction to Emergency Management 3

101 Basic Skills in Emergency Management 3

102 Leadership, Influence, and Communication 3

111 Basic Incident Command 3

112 Disaster Response and Recovery 4

212 Advanced Incident Command 3

221 Emergency Management Operations 3

222 Emergency Management Operations II 4

225 Psychology of Terrorism OR 3

226 Disaster Psychology 3

Program Electives 10 Credit Hours

Students must select a minimum of 10 credit hours from the following courses:

Computer Information Systems (0032)

116 Operating Systems I 3

Computer Security and Forensic Investigation (0162)

102 Information Security Essentials 4

213 Information Security Technology 3

Emergency Medical Technician (0120)

101 EMT Basic 3

Environmental Technology (0027)

121 Introduction to Hazardous and Materials Management . 3

122 Disaster Site Worker 3

123 Chemical Emergency Response 3

131 Environmental Health and Safety 3

141 Site Investigation and Sampling 3

181 Emergency Response Level I, II, III 3

Total Program Credit Hours 64 Credit Hours

PROGRAM OFFERED AT: 

EMERGENCY PREPAREDNESS

Basic Certificate (0358)

This Basic Certificate program in Emergency Preparedness is intended for those individuals whose function is in the planning and support sectors of the emergency response field. This is a broad field of activity as it addresses the common needs of all emergency situations, but includes the unique needs of specific types of emergencies, i.e., the needs of planning and response to a hurricane vs. a terrorist attack involving weapons of mass destruction.

For more info on the Basic Certificate in Emergency Preparedness, please visit www.ccc.edu/programs/Pages/Emergency-Preparedness-Basic-Certificate.aspx.

Required Program Core 18 Credit Hours

Environmental Technology (0027)

100 Introduction to Emergency Management 3

101 Basic Skills in Emergency Management 3

103 Introduction to Emergency Planning 3

108 Mitigation Management 3

113 Emergency Resource Management 3

203 Advanced Emergency Planning 3

Total Program Credit Hours 18 Credit Hours

PROGRAM OFFERED AT: 

HOMELAND SECURITY

Basic Certificate (0356)

This Basic Certificate program for Homeland Security is designed to meet new federal requirements for those in law enforcement, emergency response, and public safety fields who perform response activities at the emergency scene relating to the needs of on-scene emergency response regardless of the type of emergency.

For more info on the Basic Certificate in Homeland Security, please visit www.ccc.edu/programs/Pages/Homeland-Security-Basic-Certificate.aspx.

Required Program Core 18 Credit Hours

Environmental Technology (0027)

- 100 Introduction to Emergency Management 3
- 101 Basic Skills in Emergency Management 3
- 106 Introduction to Terrorism 3
- 115 Introduction to Weapons of Mass Destruction..... 3
- 205 Terrorism Planning..... 3
- 215 Advanced Weapons of Mass Destruction 3

Total Program Credit Hours 18 Credit Hours

PROGRAM OFFERED AT: 

HUMAN DEVELOPMENT AND FAMILY STUDIES

Basic Certificate (0425)

For more info on the Basic Certificate in Human Development and Family Studies, please visit www.ccc.edu/programs/Pages/Human-Development-and-Family-Studies-Basic-Certificate.aspx.

Required Program Core 22 Credit Hours

Child Development (0090)

- 101 Human Growth and Development I..... 4
- 102 Human Growth and Development II 3
- 107 Health, Safety, and Nutrition 3

Human Development and Family Studies (0168)

- 201 Human Development and Sexuality 3
- 202 Intimate Relationships..... 3
- 203 Family Development from a Cross-Cultural Perspective 3
- 204 Family Life Education..... 3

Required Work-Based Learning Courses 6 Credit Hours

Human Development and Family Studies (0168)

205 Internship for Human Development 6

Total Program Credit Hours 28 Credit Hours

PROGRAM OFFERED AT: 

HUMAN DEVELOPMENT AND FAMILY STUDIES

Associate in Applied Science (0391)

The AAS degree program in Human Development and Family Studies is based on the individual and family perspective, an interdisciplinary field that integrates several behavioral, social, and biological concepts to understand human interaction and development. Program graduates work in social service agencies, retirement communities, and other geriatric facilities, non-profit and education centers.

For more info on the Associate in Applied Science degree in Human Development and Family Studies, please visit www.ccc.edu/programs/Pages/Human-Development-and-Family-Services-Associate-in-Applied-Science.aspx.

General Education Coursework 20 Credit Hours

Chemistry (0073) OR Biology (0023)	
121 Basic Chemistry I OR.....	4
201 General Chemistry OR.....	4
114 General Education Biology OR.....	4
115 Human Biology.....	4
English (0035)	
101 Composition I.....	3
Mathematics (0045)	
118 General Education Mathematics OR.....	4
125 Introductory Statistics.....	4
Psychology (0087)	
201 General Psychology.....	3
Speech (0095)	
101 Fundamentals of Speech Communication.....	3
Humanities (0041)	
143 Introduction to Latin-American/Latino Studies (HD) OR.....	3
212 Non-Western Humanities (HD).....	3

Required Program Core 28 Credit Hours

English (0035)	
102 Composition II.....	3
Sociology (0089)	
201 Introduction to the Study of Society (HD).....	3
Philosophy (0043)	
105 Logic OR.....	3
107 Ethics.....	3
Child Development (0090)	
101 Human Growth and Development I.....	4
102 Human Growth and Development II.....	3
Human Development and Family Studies (0168)	
201 Human Development and Sexuality.....	3
202 Intimate Relationships.....	3

203 Family Development from a Cross-Cultural Perspective	3
204 Family Life Education.....	3

Required Work-Based Learning Courses 6 Credit Hours

Human Development and Family Studies (0168)	
205 Internship for Human Development.....	6

Program Electives 6 Credit Hours

Students must select a minimum of 6 credit hours from the following courses:

Child Development (0090)	
107 Health, Safety, and Nutrition.....	3
120 Introduction to Early Education/Group Care.....	3
Computer Information Systems (0032)	
120 Introduction to Microcomputers.....	3
Art (0010)	
131 General Drawing.....	2
150 Crafts Workshops.....	2
163 Watercolor Painting.....	2
Music (0060)	
105 Group Piano.....	2

Total Program Credit Hours 60 Credit Hours

PROGRAM OFFERED AT: 

INCIDENT COMMAND**Basic Certificate (0357)**

This Basic Certificate for Incident Command is designed to meet new federal requirements for those in law enforcement, emergency response, and public safety fields who perform response activities relating to the needs of on-scene emergency response regardless of the type of emergency.

For more info on the Basic Certificate in Incident Command, please visit www.ccc.edu/programs/Pages/Incident-Command-Basic-Certificate.aspx.

Required Program Core 18 Credit Hours

Environmental Technology (0027)

100 Introduction to Emergency Management	3
101 Basic Skills in Emergency Management	3
102 Leadership, Influence and Communication	3
111 Basic Incident Command	3
212 Advanced Incident Command	3
221 Emergency Management Operations.....	3

Total Program Credit Hours 18 Credit Hours

PROGRAM OFFERED AT: 

MEDIA COMMUNICATIONS
AUDIO/VIDEO/INTERNET/PRODUCTION
(AVIP) TRACK

Associate in Applied Science (0083)

The Associate in Applied Science degree program in Media Communications is a modification and extension of the former Radio and TV Broadcasting Program. Students may choose specialized courses that qualify them in the following areas: 1) Audio/Video/Internet Production (AVIP), which include Television; 2) Radio Production/Broadcasting; 3) Media Sales and Marketing; and 4) Interactive Media Design. All areas emphasize the use of technology, including computers. Therefore, computer literacy is required for successful completion of this program. The program prepares graduates for entry level positions in related fields and for possible transfer to a four-year institution.

In this specialty area, you will learn to create short video and audio projects and learn all facets of video and audio production from program design (pre-production), and hands-on recording (production) through the editing process (post-production). You will take courses in web-casting and streaming media using state-of-the-art digital technology, facilities, and instruction. By the end of the program, you will have basic knowledge of lighting, camera operation, storyboarding and basic scripting, editing, sound, and producing techniques. Students will assume roles as producers, directors, camera operators and video editors. Pre- and post-production, scripting, graphics, lighting, legal requirements, and nonlinear video editing skills will be emphasized.

For more info on the Associate in Applied Science degree in Media Communications, please visit [www.ccc.edu/programs/Pages/Media-Communications-Audio-Video-Internet-Production-\(AVIP\)-Associate-in-Applied-Science.aspx](http://www.ccc.edu/programs/Pages/Media-Communications-Audio-Video-Internet-Production-(AVIP)-Associate-in-Applied-Science.aspx).

General Education Coursework 15 Credit Hours

English (0035)	
101 Composition I.....	3
Mathematics (0045)	
118 General Education Mathematics OR higher.....	3-4
Fine Arts & Humanities course.....	3

Students must complete six additional credit hours of IAI approved courses in addition to the above courses. One course must fulfill the HD requirement.

Required Program Core 18 Credit Hours

Media Communications (0011)	
145 Introduction to Media Communications.....	3
203 Media Writing.....	3
223 Advanced Broadcast Writing.....	3
265 Digital Media Entrepreneurship.....	3
271 Introduction to Interactive Media (Internet).....	3

298 Audio, Video, or Internet Capstone.....	3
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Required Specialty Courses 21 Credit Hours

Media Communications (0011)	
231 TV Production I.....	3
232 TV Production II.....	3
240 Mini-Cam and Video Editing I.....	3
250 Mini-Cam and Video Editing II.....	3
280 Advanced Editing, Graphics, and Animation.....	3
Digital Multimedia Design (0138)	
115 Digital Audio.....	3
Visual Communications (0009)	
102 Website Design I.....	3

Required Work-Based Learning Courses 3 Credit Hours

Media Communications (0011)	
295 Practicum Internship.....	3

Program Electives 3 Credit Hours

Students should select a minimum of 3 credit hours from the following recommended courses or others as suggested by a College Advisor:

Media Communications (0011)	
102 Announcing.....	3
234 Producing for Television.....	3
245 Advanced Production Workshop.....	3
Visual Communications (0009)	
104 Digital Photography.....	3
202 Website Design II.....	3

Total Program Credit Hours 60 Credit Hours

PROGRAM OFFERED AT: 

MEDIA COMMUNICATIONS**RADIO PRODUCTION AND BROADCASTING TRACK****Associate in Applied Science (0083)**

The Associate in Applied Science degree program in Media Communications is a modification and extension of the former Radio and TV Broadcasting Program. Students may choose specialized courses that qualify them in the following areas: 1) Audio/ Video/Internet Production (AVIP), which include Television; 2) Radio Production/Broadcasting; 3) Media Sales and Marketing; and 4) Interactive Media Design. All areas emphasize the use of technology, including computers. Therefore, computer literacy is required for successful completion of this program. The program prepares graduates for entry level positions in related fields and for possible transfer to a four-year institution.

The Radio Production/Broadcasting course of study provides a comprehensive overview of the Media Communications industry with a focus in radio. The program provides a real world, hands-on overview of the art and business of radio broadcasting, while developing in-depth knowledge and skills regarding the total operation of a radio station, including the history of radio broadcasting from its inception to the latest radio technology. The program will train students in the areas of on-air talent, production, programming, or business, which includes radio marketing, promotions, and sales.

For more info on the Associate in Applied Science degree in Media Communications, please visit www.ccc.edu/programs/Pages/Media-Communications-Radio-Production-and-Broadcasting-Associate-in-Applied-Science.aspx.

General Education Coursework 15 Credit Hours

English (0035)	
101 Composition I	3
Mathematics (0045)	
118 General Education Mathematics OR higher	3–4
Fine Arts & Humanities course	3

Students must complete six additional credit hours of IAI approved courses in addition to the above courses. One course must fulfill the HD requirement.

Required Program Core 18 Credit Hours

Media Communications (0011)	
145 Introduction to Media Communications	3
203 Media Writing	3
223 Advanced Broadcast Writing	3
265 Digital Media Entrepreneurship	3
271 Introduction to Interactive Media (Internet)	3
298 Audio, Video, or Internet Capstone	3

Required Specialty Courses 21 Credit Hours

Media Communications (0011)	
102 Announcing	3
221 Radio Production I	3
222 Radio Production II	3
245 Advanced Production Workshop	3
252 Audio Engineering I	3
Digital Multimedia Design (0138)	
115 Digital Audio	3
Speech (0095)	
101 Fundamentals of Speech Communication	3

Required Work-Based Learning Courses 3 Credit Hours

Media Communications (0011)	
295 Practicum Internship	3

Program Electives 3 Credit Hours

Students should select a minimum of 3 credit hours from the following recommended courses or others as suggested by a College Advisor:

Visual Communications (0009)	
104 Digital Photography	3
English (0035)	
105 Business Writing	3
107 Report Writing	3
Speech (0095)	
160 Business and Professional Speech	3

Total Program Credit Hours 60 Credit Hours

PROGRAM OFFERED AT:



MUSIC BUSINESS

Basic Certificate (0093)

The Basic Certificate program in Music Business prepares students for the study of the techniques and standards needed for a career as a manager, publisher, professional musician, or agent. Completion of the Music Business program can lead to employment with such businesses as recording companies, management firms, publishing companies, music festivals, or music production companies. Practical experience within the music industry is included. The field is highly competitive, but employment opportunities are expanding rapidly.

For more info on the Basic Certificate in Music Business, please visit www.ccc.edu/programs/Pages/Music-Business-Basic-Certificate.aspx.

Required Program Core 21 Credit Hours

Business (0030)	
111 Introduction to Business.....	3
231 Marketing	3
Music (0060)	
102 Music Theory I	3
105 Group Piano I.....	2
111 Aural and Keyboard Skills I.....	2
120 Introduction to Music Business	3
221 Music Literature and History	3
225 Individual Project.....	2

Total Program Credit Hours 21 Credit Hours

PROGRAM OFFERED AT: 

MUSIC EDUCATION

Associate in Fine Arts (0208)

Music educators are passionate about developing their students' musical talents and guiding them in their pursuit of music careers. They also enjoy helping all students have fun, develop discipline, and enrich their lives by learning to play music. Learn how to teach music and music appreciation to of various ages and abilities. Students may take courses in curriculum design, music theory, music history, classroom management, and technology for music teachers. People with degrees in Music Education can choose to become music teachers, recreational therapists, musicians, sound engineers, and more.

For more info on the Associate in Fine Arts degree in Music Education, please visit www.ccc.edu/programs/Pages/Music-Education-Associate-in-Fine-Arts.aspx.

General Education Coursework 28 Credit Hours

English (0035)

101 Composition I.....	3
102 Composition II.....	3
Speech (0095)	
101 Fundamentals of Speech Communication	3
Mathematics (0045)	
118 General Education Mathematics OR higher.....	3
Music (0060)	
221 Music Literature and History	3
<i>One of the below courses must be an HD course.</i>	
Social & Behavioral Sciences course.....	3
Fine Arts & Humanities course.....	3
Physical & Life Sciences course	7
<i>Minimum one course each in Physical & Life Sciences; one course must be a lab.</i>	

Required Program Core 32 Credit Hours

Music (0060)	
102 Music Theory I	3
103 Music Theory II	3
105 Group Piano I.....	2
106 Group Piano II.....	2
111 Aural and Keyboard Skills I.....	2
112 Aural and Keyboard Skills II.....	2
181 Applied Music/Freshman Level I.....	2
182 Applied Music/Freshman Level II.....	2
201 Music Theory III	3
202 Music theory IV	3
211 Aural and Keyboard Skills III.....	2
212 Aural and Keyboard Skills IV	2
281 Applied Music/Sophomore I.....	2
282 Applied Music/Sophomore II.....	2

Program Electives 2 Credit Hours

Students should select a minimum of 2 credit hours from the following courses:

Music (0060)	
109 Jazz/Pop Ensemble	2
110 Jazz/Pop Ensemble: Blues Emphasis	2
131 Chorus	2
135 Instrumental Ensemble	1
136 Vocal Ensemble.....	1

Total Program Credit Hours 62 Credit Hours

PROGRAM OFFERED AT: 

MUSIC PERFORMANCE

Associate in Fine Arts (0205)

The Associate in Fine Arts Degree with a concentration in Music Performance provides the necessary foundation for more advanced study in music performance, music theory, music history, or music composition at four-year colleges, universities, and music conservatories. Performance areas include all musical instruments and voice. Employment opportunities are varied and are usually based on the student's personal interest and area of specialization, including all professions based in the musical arts (performance, composition, research and analysis, music management, library science, music publishing, music therapy, among others).

For more info on the Associate in Fine Arts degree in Music Performance, please visit www.ccc.edu/programs/Pages/Music-Performance-Associate-in-Fine-Arts.aspx.

General Education Coursework	29 Credit Hours
English (0035)	
101 Composition I	3
102 Composition II	3
Speech (0095)	
101 Fundamentals of Speech Communication	3
Mathematics (0045)	
118 General Education Mathematics OR	4
125 Introductory Statistics	4
Physical & Life Sciences	
<i>Minimum one course each in Physical & Life Sciences; one course must be a lab.</i>	
2 courses	7
Social & Behavioral Sciences	
1 course	3
Fine Arts & Humanities	
2 courses	6

Required Program Core **35 Credit Hours**

Students should meet with a College Advisor for selection of courses.

Program Electives **4 Credit Hours**

Students should meet with a College Advisor for selection of elective courses.

Total Program Credit Hours 68 Credit Hours

PROGRAM OFFERED AT:  

MUSIC TECHNOLOGY

Basic Certificate (0094)

The Basic Certificate program in Music Technology is the study of techniques and standards needed for careers as a recording engineer, producer, professional musician, or composer/arranger. Completion of the certificate program can lead to employment with such businesses as advertising agencies, recording studios, recording companies, video game companies, publishing companies, radio stations, or as a freelance artist. The field is highly competitive, but employment opportunities are expanding rapidly.

For more info on the Basic Certificate in Music Technology, please visit www.ccc.edu/programs/Pages/Music-Technology-Basic-Certificate.aspx.

Required Program Core	26 Credit Hours
Digital Multimedia Design (0138)	
115 Digital Audio	3
Music (0060)	
102 Music Theory I	3
103 Music Theory II	3
105 Group Piano I	2
106 Group Piano II	2
111 Aural and Keyboard Skills I	2
112 Aural and Keyboard Skills II	2
204 Commercial Music Workshop I	2
205 Commercial Music Workshop II	2
221 Music Literature and History	3
225 Individual Project	2
Total Program Credit Hours	26 Credit Hours

PROGRAM OFFERED AT: 

PSYCHIATRIC REHABILITATION

Basic Certificate (0258)*

**Beginning Summer 2018, this program is no longer accepting new students. Please refer to CCC's other Liberal Arts offerings.*

The Psychiatric Rehabilitation certificate program is comprised of course work and an internship which, when combined with two years experience in the field, entitles the graduate to work at the same level as those with bachelor's degrees.

For more info on the Basic Certificate in Psychiatric Rehabilitation, please visit www.ccc.edu/programs/pages/default.aspx.

Required Program Core 12 Credit Hours

Psychiatric Rehabilitation (0134)

101 Survey of Psychiatric Rehabilitation.....	3
102 Psychiatric Rehabilitation Skills.....	3
103 Health Skills for Psychiatric Rehabilitation	3
104 Vocational and Community Living Skills.....	3

**Required Work-Based Learning Courses
3 Credit Hours**

Psychiatric Rehabilitation (0134)

105 Internship	3
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Total Program Credit Hours 15 Credit Hours

PROGRAM OFFERED AT: 

SOCIAL WORK: GENERALIST

Advanced Certificate (0317)*

**Beginning Summer 2016, this program is no longer accepting new students. Please refer to CCC's other Liberal Arts offerings.*

For more info on the Advanced Certificate in Social Work: Generalist, please visit www.ccc.edu/programs/Pages/Social-Work-Generalist-Advanced-Certificate.aspx.

Required Program Core 31 Credit Hours

Child Development (0090)

101 Human Growth and Development I.....	4
102 Human Growth and Development II.....	3
107 Health, Safety, and Nutrition	3

Mental Health (0118)

223 Introduction to Addictions Studies OR.....	3
228 Principles of Mental Health Practice.....	3

Social Service (0091)

101 Introduction to Social Work	3
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109 Report Writing for Social Service Aides	3
201 Principles of Social Work Practice	3
212 Introduction to Group Process	3
215 Social Problems and Social Action I	3
228 Methodology for Social Work OR.....	3
248 Principles of Youth and Group Work.....	3

**Required Work-Based Learning Courses
6 Credit Hours**

Social Service (0091)

229 Practicum in Social Service	6
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Total Program Credit Hours 37 Credit Hours

PROGRAM OFFERED AT: 

SOCIAL WORK: GENERALIST

Associate in Applied Science (0313)*

**Beginning Fall 2016, this program is no longer accepting new students at Harold Washington College. Please refer to the program at Kennedy-King College.*

The Associate in Applied Science degree in Social Work includes the study of the generalist approach to working with the individual, family, group, and community. The degree can lead to employment as an aide to a social worker in government, community, or private social service agencies.

For more info on the Associate in Applied Science degree in Social Work: Generalist, please visit www.ccc.edu/programs/Pages/Social-Work-Generalist-Associate-in-Applied-Science.aspx.

General Education Coursework 15 Credit Hours

- English (0035)
- 101 Composition I3
- Additional General Education Courses 12

Select an additional 12 hours of general education courses from Communications, Fine Arts & Humanities, Mathematics, Social & Behavioral Sciences, or Physical & Life Sciences.

At least one course must meet the Human Diversity (HD) requirement

Required Program Core 31 Credit Hours

- Child Development (0090)
 - 101 Human Growth and Development I4
 - 102 Human Growth and Development II3
 - 107 Health, Safety, and Nutrition3
- Mental Health (0118)
 - 223 Introduction to Addictions Studies3
- Social Service (0091)
 - 101 Introduction to Social Work3
 - 109 Report Writing for Social Service Aides3
 - 201 Principles of Social Work Practice3
 - 212 Introduction to Group Process3
 - 215 Social Problems and Social Action I3
 - 228 Methodology for Social Work OR3
 - 248 Principles of Youth and Group Work3

Required Work-Based Learning Courses

6 Credit Hours

- Social Service (0091)
 - 229 Practicum in Social Service6

Program Electives 14 Credit Hours

Students are urged to take elective courses in Psychology,

Sociology, Child Development, Anthropology, Criminal Justice, and Addiction Studies to become familiar with various approaches to individual, group, or societal problems. In addition, Computer Information Systems 120–Introduction to Microcomputers and English 102–Composition II, are strongly recommended. Meet with a College Advisor for course selection.

Total Program Credit Hours 66 Credit Hours

PROGRAM OFFERED AT:  

SOCIAL WORK: YOUTH WORK

Basic Certificate (0372)*

**Beginning Summer 2016, this program is no longer accepting new students. Please refer to CCC’s other Liberal Arts offerings.*

For more info on the Basic Certificate in Social Work: Youth Work, please visit www.ccc.edu/programs/Pages/Social-Work-Youth-Work-Basic-Certificate.aspx.

Required Program Core 9 Credit Hours

- Social Service (0091)
 - 109 Report Writing in Social Work 3
 - 215 Social Problems and Social Action I 3
 - 248 Principles of Youth and Group Work 3

Required Work-Based Learning Courses

6 Credit Hours

- Social Service (0091)
 - 249 Practicum in Youth Work 6

Total Program Credit Hours 15 Credit Hours

PROGRAM OFFERED AT: 

SOCIAL WORK: YOUTH WORK

Advanced Certificate (0371)*

**Beginning Summer 2016, this program is no longer accepting new students. Please refer to CCC's other Liberal Arts offerings.*

For more info on the Advanced Certificate in Social Work: Youth Work, please visit www.ccc.edu/programs/Pages/Social-Work-Youth-Work-Advanced-Certificate.aspx.

Required Program Core 25 Credit Hours

Child Development (0090)	
101 Human Growth and Development I.....	4
102 Human Growth and Development II.....	3
Mental Health (0118)	
223 Introduction to Addictions Studies.....	3
228 Principles of Mental Health Practices.....	3
Social Service (0091)	
109 Report Writing in Social Work.....	3
212 Introduction to Group Process.....	3
215 Social Problems and Social Action I.....	3
248 Principles of Youth and Group Work.....	3

**Required Work-Based Learning Courses
6 Credit Hours**

Social Service (0091)	
249 Practicum in Youth Work.....	6

Total Program Credit Hours 31 Credit Hours

PROGRAM OFFERED AT: 

SOCIAL WORK: YOUTH WORK

Associate in Applied Science (0370)*

**Beginning Summer 2016, this program is no longer accepting new students. Please refer to CCC's other Liberal Arts offerings.*

The Associate in Applied Science degree in Social Work: Youth Work can lead to employment in government, community, or private social service agencies. Enrollment in the program is open to anyone interested in working with youth during out-of-school time, e.g. after-school workers, school-age workers, grassroots youth workers, community activists, outreach workers, probation officers, prevention specialists, teen reach workers, managers, and supervisors. As an option under Social Work, the academic program for the professional development worker includes basic and advanced certificates and an Associate in Applied Science degree. Where applicable, under this professional development option, college credit will be awarded for prior learning experiences up to a maximum of fifteen credit hours.

For more info on the Associate in Applied Science degree in Social Work: Youth Work, please visit www.ccc.edu/programs/Pages/Social-Work-Youth-Work-Associate-in-Applied-Science.aspx.

General Education Coursework 16 Credit Hours

English (0035)	
101 Composition I.....	3
Mathematics (0045)	
118 General Education Mathematics.....	4
Social Science (0088)	
101 General Course I Social Science.....	3
Fine Arts & Humanities course.....	3
Physical Sciences course.....	3

Required Program Core 31 Credit Hours

Business (0030)	
111 Introduction to Business.....	3
Child Development (0090)	
101 Human Growth and Development I.....	4
102 Human Growth and Development II.....	3
Mental Health (0118)	
223 Introduction to Addictions Studies.....	3
228 Principles of Mental Health Practices.....	3
Psychology (0087)	
211 Social Psychology (HD).....	3
Social Service (0091)	
109 Report Writing in Social Work.....	3
212 Introduction to Group Process.....	3
215 Social Problems and Social Action I.....	3
248 Principles of Youth and Group Work.....	3

**Required Work-Based Learning Courses
6 Credit Hours**


Social Service (0091)	
249 Practicum in Youth Work.....	6

Program Electives 10 Credit Hours

Students should meet with a College Advisor for selection of elective courses.

At least one course must meet the Human Diversity (HD) requirement

Total Program Credit Hours 63 Credit Hours

PROGRAM OFFERED AT: 

UNARMED SECURITY GUARD**Basic Certificate (0898)**

In this comprehensive 20-hour Unarmed Security Guard certificate program, students will cover officer training as an introduction to public security and basic patrol tactics.

For more info on the Basic Certificate in Unarmed Security Guard, please visit www.ccc.edu/programs/Pages/Unarmed-Security-Guard-Basic-Certificate.aspx.

Required Program Core 2 Credit Hours

Short-Term Trade/Industrial/Trans (0504)

119 Unarmed Security Guard2

Total Program Credit Hours 2 Credit Hours

PROGRAM OFFERED AT: 

VISUAL MEDIA COMMUNICATIONS**Advanced Certificate (0166)**

For more info on the Advanced Certificate in Visual Media Communications, please visit www.ccc.edu/programs/Pages/Visual-Media-Communications-Advanced-Certificate.aspx.

Required Program Core 18 Credit Hours

Visual Communications (0009)

101 Introduction to Visual Communication.....3

104 Digital Photography.....3

122 Graphic Software3

132 Publication Design3

134 Logo Identity Design3

224 Digital Typography3

Program Electives 12 Credit Hours

Students must select a minimum of 12 credit hours from the following courses or others as recommended by a College Advisor:

Visual Communications (0009)

102 Website Design I.....3

201 Design Management.....3

Total Program Credit Hours 30 Credit Hours

PROGRAM OFFERED AT: 

VISUAL MEDIA COMMUNICATIONS

Associate in Applied Science (0165)

The Associate in Applied Science degree program in Visual Media Communications is a creative hybrid learning environment that challenges students to acquire competent skills in art, graphics, website, and animation design. Students train as visual designers and entrepreneurs in the visual communication industry.

For more info on the Associate in Applied Science degree in Visual Media Communications, please visit www.ccc.edu/programs/Pages/Visual-Media-Communications-Associate-in-Applied-Science.aspx

General Education Coursework 15 Credit Hours

- English (0035)
 - 101 Composition I3
 - Mathematics (0045)
 - 118 General Education Mathematics OR higher3–4
 - Fine Arts (0042)
 - 107 History of Architecture, Painting, and Sculpture I3
- One of the following courses must fulfill the Human Diversity requirement:
- Fine Arts & Humanities course3
 - Social & Behavioral Sciences course3

Required Program Core 39 Credit Hours

- Visual Communications (0009)
 - 101 Introduction to Visual Communication3
 - 102 Website Design I3
 - 104 Digital Photography3
 - 132 Publication Design3
 - 150 Graphic Design I3
 - 202 Website Design II3
 - 212 Motion Graphics I3
 - 213 Motion Graphics II3
 - 224 Digital Typography3
 - 250 Graphic Design II3
 - 298 Design Studio3
- Art (0010)
 - 144 Two-Dimensional Design3
- Media Communications (0011)
 - 240 Mini-Cam and Video Editing I3

Required Work-Based Learning Courses 3 Credit Hours

- Visual Communications (0009)

- 290 Practicum Internship3

Program Electives 3 Credit Hours

Students should select a minimum of 3 credit hours from the following recommended courses or others as suggested by a College Advisor:

- Art (0010)
 - 131 General Drawing3
 - 132 Advanced General Drawing3
- Digital Multimedia Design (0138)
 - 115 Digital Audio3
- Fine Arts (0042)
 - 108 History of Architecture, Painting, and Sculpture II3
- Media Communications (0011)
 - 250 Mini-Cam and Video Editing II3
 - 271 Introduction to Interactive Media3

Total Program Credit Hours 60 Credit Hours

PROGRAM OFFERED AT: 

VISUAL MEDIA COMMUNICATIONS PAGE LAYOUT

Basic Certificate (0192)

For more info on the Basic Certificate in Visual Media Communications, please visit www.ccc.edu/programs/Pages/Visual-Media-Communications--Page-Layout-Basic-Certificate.aspx

Required Program Core 15 Credit Hours

- Visual Communications (0009)
 - 104 Digital Photography3
 - 122 Graphic Software3
 - 132 Publication Design3
 - 134 Logo Identity Design3
 - 224 Digital Typography3

Total Program Credit Hours 15 Credit Hours

PROGRAM OFFERED AT: 

**VISUAL MEDIA COMMUNICATIONS WEB
PAGE DESIGN**

Basic Certificate (0193)

*For more info on the Basic Certificate in Visual Media
Communications, please visit
[www.ccc.edu/programs/Pages/Visual-Media-Communications-
--Web-Page-Design-Basic-Certificate.aspx](http://www.ccc.edu/programs/Pages/Visual-Media-Communications-
--Web-Page-Design-Basic-Certificate.aspx)*

Required Program Core 15 Credit Hours

Visual Communications (0009)

102 Website Design I.....	3
132 Publication Design	3
202 Website Design II.....	3
212 Motion Graphics I.....	3
224 Digital Typography	3

Total Program Credit Hours 15 Credit Hours

PROGRAM OFFERED AT: 



NATURAL SCIENCES

By studying one of the Natural Sciences programs at City Colleges, you can take the first step toward launching your career as a biologist, engineer, researcher or chemist. Complete an associate degree and you can save thousands of dollars on the cost of your bachelor's degree when you transfer to a four-year college or university.

City Colleges offers transfer degrees—Associate in Arts (AA) and Associate in Science (AS)—that make transferring to a four-year college or university easy and convenient. There are several transfer pathways at CCC, which are suggested coursework that align with the area of study you are interested in. If a Focus Area offers any transfer pathways, they will be denoted in the below chart by the letter pairings AA or AS. Each pathway is hyperlinked to their Program Finder page where their semester map can be found.

To learn more about Natural Sciences at City Colleges of Chicago, visit www.ccc.edu/naturalsciences.

DEGREES AND CERTIFICATES

LIFE SCIENCES	BASIC CERTIFICATE	ADVANCED CERTIFICATE	ASSOCIATE DEGREE
Biology			AS
Biotechnology			AAS
Environmental Biology			AS
MATHEMATICS			
Mathematics			AS
PHYSICAL SCIENCES			
Chemical Laboratory Technology			AAS
Chemistry			AGS
Engineering			AES
Environmental Technology	●		AAS
Geology, Earth Science, Earth, and Environmental Science			AS
Horticulture (Sustainable Urban)		●	

● This program is offered and accepting new students.

BIOTECHNOLOGY**Associate in Applied Science (0215)**

The Associate in Applied Science degree program for Biotechnology utilizes cellular components and microorganisms for the production of products used in medicine, pharmacology, agriculture, food processing, and environmental cleanup. Employment opportunities are available in laboratories, hospitals, and research and development companies.

This selective admissions program requires students to submit a separate application or to take additional action before enrolling.

For more info on the Associate in Applied Science degree in Biotechnology, please visit www.ccc.edu/programs/Pages/Biotechnology-Associate-in-Applied-Science.aspx.

General Education Coursework 18 Credit Hours

Biology (0023)	
121 Biology I	5
English (0035)	
101 Composition I	3
Mathematics (0045)	
125 Introductory Statistics	4
Additional General Education course	3
General Education Human Diversity course	3

Required Program Core 43 Credit Hours

Biology (0023)	
122 Biology II	5
209 Biochemistry	4
250 Introduction to Molecular Biology	3
251 Molecular Biology I	4
252 Molecular Biology II	4
Chemistry (0073)	
201 General Chemistry I	5
205 Organic Chemistry I	6
Mathematics (0045)	
140 College Algebra	4
Microbiology (0024)	
233 General Microbiology	4
234 Applied Microbiology	4

Program Electives 6 Credit Hours

Students must select a minimum of 6 credit hours from the following courses:

Biology (0023)

107 Nutrition-Consumer Education	3
210 Survey of Biotechnology	3
Chemistry (0073)	
204 Quantitative Analysis	5
207 Organic Chemistry II	6
217 Introduction to Instrumental Analysis	4
Computer Information Systems (0032)	
116 Operating System I	3

Total Program Credit Hours 67 Credit Hours

PROGRAM OFFERED AT:



CHEMICAL LABORATORY TECHNOLOGY**Associate in Applied Science (0137)**

The Associate in Applied Science degree program for Chemical Laboratory Technology focuses on the study of the development, production and utilization of industrial chemicals, and methods used in modern chemical laboratories. The program can lead to employment as a chemical lab technician (working under supervision of senior technicians), engineer, or scientist in production or testing, as well as in commercial utilization of chemicals and chemical products.

For more info on the Associate in Applied Science degree in Chemical Laboratory Technology, please visit www.ccc.edu/programs/Pages/Chemical-Laboratory-Technology-Associate-in-Applied-Science.aspx.

General Education Coursework\ 16 Credit Hours

English (0035)	
101 Composition I	3
Mathematics (0045)	
140 College Algebra	4
Fine Arts & Humanities course	3
Social & Behavioral Sciences course	3
General Education Human Diversity course	3

Required Program Core 31 Credit Hours

Chemistry (0073)	
201 General Chemistry I	5
203 General Chemistry II	5
205 Organic Chemistry I	6
207 Organic Chemistry II	6
217 Introduction to Instrumental Analysis	4
Mathematics (0045)	
207 Calculus and Analytical Geometry I	5

Program Electives 16 Credit Hours

Students must select a minimum of 16 credit hours from the following courses:

Computer Information Systems (0032)	
120 Introduction to Microcomputers	3
Mathematics (0045)	
141 Plane Trigonometry	3
208 Calculus and Analytical Geometry II	5
Physics (0077)	
235 Engineering Physics I: Mechanics and Wave Motion	5
236 Engineering Physics II: Electricity and Magnetism	5

Total Program Credit Hours 63 Credit Hours

PROGRAM OFFERED AT:

**ENVIRONMENTAL TECHNOLOGY****Basic Certificate (0161)**

For more info on the Basic Certificate in Environmental Technology, please visit www.ccc.edu/programs/Pages/Environmental-Technology-Basic-Certificate.aspx.

Required Program Core 6 Credit Hours

Environmental Technology (0027)	
121 Introduction to Hazardous Materials Management	3
131 Environmental Health and Safety	3

Program Electives 12 Credit Hours

Environmental Technology (0027)	
100-level Environmental Technology electives	6
200-level Environmental Technology electives	6

Total Program Credit Hours 18 Credit Hours

PROGRAM OFFERED AT:



ENVIRONMENTAL TECHNOLOGY

Associate in Applied Science (0160)

The Associate in Applied Science degree program for Environmental Technology prepares students with the skills and knowledge needed to participate in environmental careers including environmental compliance in public and private sector organizations, pollution prevention, environmental remediation, workplace health and safety, and emergency response preparedness. You will learn to develop procedures for proper hazardous materials handling techniques and design training programs used to implement existing and future regulatory requirements to ensure compliance. Upon graduation, you will be prepared to work in the health and safety field in such positions as compliance officer, environmental safety specialist, laboratory technician, hazardous materials emergency response technician, and environmental coordinator.

For more info on the Associate in Applied Science degree in Environmental Technology, please visit www.ccc.edu/programs/Pages/Environmental-Technology-Associate-in-Applied-Science.aspx.

General Education Coursework 19 Credit Hours

- English (0035)
 - 101 Composition I3
 - Speech (0095)
 - 101 Fundamentals of Speech Communication3
 - Chemistry (0073)
 - 121 Basic Chemistry I4
 - Computer Information Systems (0032)
 - 120 Introduction to Microcomputers3
- One of the below courses must fulfill the Human Diversity requirement:
- Fine Arts & Humanities course3
 - Social & Behavioral Sciences course3

Required Program Core 41 Credit Hours

- Biology (0023)
 - 115 Human Biology4
 - 119 Environmental Biology4
- English (0035)
 - 102 Composition II OR3
 - 107 Report Writing3
- Environmental Technology (0027)
 - 121 Introduction to Hazardous Materials Management3
 - 131 Environmental Health and Safety3
 - 141 Site Investigation and Sampling3
 - 151 Introduction to Environmental Law and Policies3
 - 175 Hazardous Materials Handling and Transportation3
 - 211 Recycling and Waste Minimization3

- 241 Environmental Sampling 4
- 243 Environmental Analysis 4
- Mathematics (0045)
 - 118 General Education Mathematics OR higher 4

Program Electives 8 Credit Hours

Students should meet with a College Advisor for selection of elective courses.

Total Program Credit Hours 68 Credit Hours

PROGRAM OFFERED AT: 

HORTICULTURE (SUSTAINABLE URBAN)

Advanced Certificate (0828)

The Horticulture (Sustainable Urban) certificate program is designed to provide students with cutting edge opportunities in the area of green technologies. Topics include green roofs, xeriscaping, rain gardens, and other new emerging technologies in the green industry.

For more info on the Advanced Certificate in Horticulture (Sustainable Urban), please visit [www.ccc.edu/programs/Pages/Horticulture-\(Sustainable-Urban\)-Advanced-Certificate.aspx](http://www.ccc.edu/programs/Pages/Horticulture-(Sustainable-Urban)-Advanced-Certificate.aspx).

Required Program Core 26 Credit Hours

- Short-Term Trade/Industrial/Trans (0504)
 - 136 Basic Horticulture 3
 - 137 Managing Urban Green Space 3
 - 138 Horticultural Plant Science 3
 - 139 Urban Horticulture Floral 3
 - 140 Greenhouse Crop Production 4
 - 141 Soil Fertility and Assessment 3
 - 142 Management of Plant and Animal Invasion 3
 - 143 Sustainable Farming Practices 4

Required Work-Based Learning Courses 5 Credit Hours

- Short-Term Trade/Industrial/Trans (0504)
 - 144 Practicum/Internship 5

Total Program Credit Hours 31 Credit Hours

PROGRAM OFFERED AT: 



TRANSPORTATION, DISTRIBUTION AND LOGISTICS

Through a career in the fast-growing Transportation, Distribution and Logistics (TDL) industry, you could manage the movements of products, drive and repair vehicles, or use technology to coordinate warehouses and distribution centers. TDL students gain real-world insight through on-campus seminars by TDL professionals and off-campus visits to TDL companies, as well as connect with hundreds of employers looking to hire through our Career Network, our online job board.

City Colleges offers transfer degrees—Associate in Arts (AA) and Associate in Science (AS)—that make transferring to a four-year college or university easy and convenient. There are several transfer pathways at CCC, which are suggested coursework that align with the area of study you are interested in. If a Focus Area offers any transfer pathways, they will be denoted in the below chart by the letter pairings AA or AS. Each pathway is hyperlinked to their Program Finder page where their semester map can be found.

To learn more about Transportation, Distribution and Logistics at City Colleges of Chicago, visit www.ccc.edu/naturalsciences.

DEGREES AND CERTIFICATES

AUTOMOTIVE TECHNOLOGY	BASIC CERTIFICATE	ADVANCED CERTIFICATE	ASSOCIATE DEGREE
Alternative Fuel Vehicle Technology	*		
Automotive Body Reconstruction Technology	●		
Automotive Body Repainting Technology	●		
Automotive Chassis Maintenance	*		
Automotive Fuel Management Technology	*		
Automotive Maintenance	*		
Automotive Technology**	*	*	AAS *
Collision Technology		●	
COMMERCIAL (TRUCK) DRIVING			
Commercial Driver Training (Class A)	●		
Commercial Passenger Driver: Class B	●		
Class C Driver Training	●		
DIESEL TECHNOLOGY			
Diesel Technology	*	*	AAS*
PRE-AVIATION			
Pre-Aviation			AS
SUPPLY CHAIN LOGISTICS			
Supply Chain Management and Logistics	●	●	AAS
Forklift Operation and Safety	●		
TAXI AND LIMO			
Limousine–Restricted Chauffeur Training	●		
Public Passenger Vehicle Training: Taxi	●		
Defensive Driving: Attitudinal	●		

* Coming soon to Olive-Harvey!

** The Associate in Applied Science degree and Advanced Certificate in Automotive Technology have three tracks of study for students to choose from.

● This program is offered and accepting new students.

ALTERNATIVE FUEL VEHICLE TECHNOLOGY

Basic Certificate (0099)*

*COMING SOON TO OLIVE-HARVEY

The AFVT Program has been designed to prepare students to apply their skills and knowledge to correctly diagnose and repair alternative fuel vehicles such as hybrid power units in accordance with manufacturer's specifications. The AFVT program will also give emergency response, auto insurance and salvage yard personnel working knowledge to safely perform their tasks when working on or inspecting hybrid fuel vehicles. This program will also prepare automotive technicians and instructors to sit for the Automotive Service Excellence (ASE) Advanced Engine Performance examination.

For more info on the Basic Certificate in Alternative Fuel Vehicle Technology, please visit www.ccc.edu/programs/Pages/Alternative-Fuel-Vehicle-Technology-Basic-Certificate.aspx.

Required Program Core 16 Credit Hours

Automotive Technology (0105)	
130 Topics in Alternative Fuel Vehicle Technology.....	3
230 Introduction to Alternative Fuel Technology.....	4
231 AFT Hybrid Fuel Vehicles	4
232 Hybrid and Fuel Cell Vehicles.....	5

Total Program Credit Hours 16 Credit Hours

PROGRAM OFFERED AT:  

AUTOMOTIVE BODY RECONSTRUCTION TECHNOLOGY

Basic Certificate (0112)

The Basic Certificate in Automotive Body Reconstruction Technology is designed to provide concentrated training in the areas of auto body reconstruction. Students completing the requirements for this certificate will qualify for entry-level positions as auto body component and vehicle reconstruction. Students may also qualify for entry-level auto body service writer positions.

For more info on the Basic Certificate in Automotive Body Reconstruction Technology, please visit www.ccc.edu/programs/Pages/Automotive-Body-Reconstruction-Technology-Basic-Certificate.aspx.

Required Program Core 22 Credit Hours

Automotive Technology (0105)	
102 Introduction to Collision Technology	4
107 Automotive Body Welding.....	4
117 Automotive Body Reconstruction I.....	3

122 Structural Analysis and Damage Repair II.....	4
217 Automotive Body Reconstruction II.....	3
220 Collision Estimating	4

Total Program Credit Hours 22 Credit Hours

PROGRAM OFFERED AT: 

AUTOMOTIVE BODY REPAINTING TECHNOLOGY

Basic Certificate (0111)

The Basic Certificate in Automotive Body Repainting Technology is designed to provide concentrated training in the areas of auto body repainting. Students completing the requirements for this certificate will qualify for entry-level positions as auto body component and vehicle painters. Students may also qualify for entry-level auto body service writer positions.

For more info on the Basic Certificate in Automotive Body Repainting Technology, please visit www.ccc.edu/programs/Pages/Automotive-Body-Repainting-Technology-Basic-Certificate.aspx.

Required Program Core 22 Credit Hours

Automotive Technology (0105)	
102 Introduction to Collision Technology	4
118 Automotive Body Repainting I.....	3
119 Automotive Body Detailing.....	5
218 Automotive Body Repainting II.....	3
220 Collision Estimating	4
223 Automotive Body Repainting III.....	3

Total Program Credit Hours 2 Credit Hours

PROGRAM OFFERED AT: 

AUTOMOTIVE CHASSIS MAINTENANCE

Basic Certificate (0134)*

*COMING SOON TO OLIVE-HARVEY

The Basic Certificate in Automotive Chassis Maintenance is designed to provide concentrated training in the area of under-the-car chassis service and repair. Students completing the requirements for this certificate will qualify for entry-level positions as wheel alignment and brake technicians.

For more info on the Basic Certificate in Automotive Chassis Maintenance, please visit www.ccc.edu/programs/Pages/Automotive-Chassis-Maintenance-Basic-Certificate.aspx.

Required Program Core 19 Credit Hours

Automotive Technology (0105)	
101 Introduction to Automotive Technology.....	4
104 Electrical Systems and Power Accessories	4
109 Automotive Brakes.....	4
209 Steering and Suspension Systems	4

Required Work-Based Learning Courses 3 Credit Hours

Automotive Technology (0105)	
108 Work-Based Learning I	3

Total Program Credit Hours 19 Credit Hours

PROGRAM OFFERED AT:  

AUTOMOTIVE FUEL MANAGEMENT TECHNOLOGY

Basic Certificate (0136)*

*COMING SOON TO OLIVE-HARVEY

The Basic Certificate in Automotive Fuel Management Technology is designed to provide concentrated training in the area of computerized engine performance and fuel management as they relate to drivability service. It will also provide skill enhancement for working technicians in need of upgrading their knowledge and ability to work with computerized engine controls. Students completing the requirements for this certificate will qualify for entry-level positions as tune-up and performance specialists.

For more info on the Basic Certificate in Automotive Fuel Management Technology, please visit www.ccc.edu/programs/Pages/Automotive-Fuel-Management-Technology-Basic-Certificate.aspx.

Required Program Core 27 Credit Hours

Automotive Technology (0105)	
101 Introduction to Automotive Technology.....	4

103 Engine Concepts	4
104 Electrical Systems and Power Accessories	4
105 Fuel Management I.....	4
205 Fuel Management II.....	4
206 Fuel Management III.....	4

Required Work-Based Learning Courses 3 Credit Hours

Automotive Technology (0105)	
108 Work-Based Learning I	3

Total Program Credit Hours 27 Credit Hours

PROGRAM OFFERED AT:  

AUTOMOTIVE MAINTENANCE

Basic Certificate (0128)*

*COMING SOON TO OLIVE-HARVEY

The Basic Certificate in Automotive Maintenance is designed to provide concentrated training in the area of preventative maintenance on common wear areas of automobiles. Students completing the requirements for this certificate will qualify for entry-level positions as wheel alignment, and brake or air conditioning technicians. Students may also qualify for entry-level management positions.

For more info on the Basic Certificate in Automotive Maintenance, please visit www.ccc.edu/programs/Pages/Automotive-Maintenance-Basic-Certificate.aspx.

Required Program Core 27 Credit Hours

Automotive Technology (0105)	
101 Introduction to Automotive Technology.....	4
104 Electrical Systems and Power Accessories	4
109 Automotive Brakes.....	4
209 Steering and Suspension Systems	4
211 Automotive Service Management.....	4
215 Automotive Temperature Control Systems	4

Required Work-Based Learning Courses 3 Credit Hours

Automotive Technology (0105)	
108 Work-Based Learning I	3

Total Program Credit Hours 27 Credit Hours

PROGRAM OFFERED AT:  

AUTOMOTIVE TECHNOLOGY

Basic Certificate (0116)*

*COMING SOON TO OLIVE-HARVEY

For more info on the Basic Certificate in Automotive Technology, please visit [www.ccc.edu/programs/Pages/Automotive-\(Technology\)-Basic-Certificate.aspx](http://www.ccc.edu/programs/Pages/Automotive-(Technology)-Basic-Certificate.aspx).

Required Program Core 20 Credit Hours

Automotive Technology (0105)

101 Introduction to Automotive Technology.....	4
103 Engine Concepts.....	4
104 Electrical Systems and Power Accessories	4
109 Automotive Brakes.....	4
209 Steering and Suspension Systems	4

Total Program Credit Hours 20 Credit Hours

PROGRAM OFFERED AT:  

AUTOMOTIVE TECHNOLOGY (TRACK 1)

Advanced Certificate (0130)

The Advanced Certificate program in Automotive Technology provides the necessary foundation and practical experience to pursue entry-level positions in Automotive Technology that meet the changing demands of the automotive industry. Entry-level positions may be found in automotive dealerships, automotive franchises, independent service repair shops, auto part stores, or through self-employment. Students will learn the technical skills essential to employment in the field of maintenance technology, chassis, diesel, and power train, leading to employment in service, maintenance, as well as management occupations or self-employment. Students will also be able to consider transferring Industrial Engineering Technology credits to state universities.

For more info on the Advanced Certificate in Automotive Technology, please visit [www.ccc.edu/programs/Pages/Automotive-\(Technology\)-Advanced-Certificate.aspx](http://www.ccc.edu/programs/Pages/Automotive-(Technology)-Advanced-Certificate.aspx).

Required Program Core 46 Credit Hours

Automotive Technology (0105)

101 Introduction to Automotive Technology.....	4
103 Engine Concepts.....	4
104 Electrical Systems and Power Accessories	4
105 Fuel Management I	4
108 Work-Based Learning I	6
109 Automotive Brakes.....	4
204 Electrical Systems.....	4

205 Fuel Management II.....	4
206 Fuel Management III.....	4
209 Steering and Suspension Systems.....	4
215 Automotive Temperature Control Systems.....	4

Total Program Credit Hours 46 Credit Hours

PROGRAM OFFERED AT: 

AUTOMOTIVE TECHNOLOGY (TRACK 2)

Advanced Certificate (0130)

The Advanced Certificate program in Automotive Technology provides the necessary foundation and practical experience to pursue entry-level positions in Automotive Technology that meet the changing demands of the automotive industry. Entry-level positions may be found in automotive dealerships, automotive franchises, independent service repair shops, auto part stores, or through self-employment. Students will learn the technical skills essential to employment in the field of maintenance technology, chassis, diesel, and power train, leading to employment in service, maintenance, as well as management occupations or self-employment. Students will also be able to consider transferring Industrial Engineering Technology credits to state universities.

For more info on the Advanced Certificate in Automotive Technology, please visit [www.ccc.edu/programs/Pages/Automotive-\(Technology\)-Advanced-Certificate.aspx](http://www.ccc.edu/programs/Pages/Automotive-(Technology)-Advanced-Certificate.aspx).

Required Program Core 46 Credit Hours

Automotive Technology (0105)

101 Introduction to Automotive Technology.....	4
103 Engine Concepts	4
104 Electrical Systems and Power Accessories	4
106 Fuel Systems.....	5
109 Automotive Brakes.....	4
204 Electrical Systems	4
207 Transmissions, Transaxle, and Driveline	4
209 Steering and Suspension Systems.....	4
210 Performance and Drivability.....	5
212 Manual Drive Train and Axles.....	4
215 Automotive Temperature Control Systems.....	4

Total Program Credit Hours 46 Credit Hours

PROGRAM OFFERED AT: 

AUTOMOTIVE TECHNOLOGY (TRACK 3)

Advanced Certificate (0130)*

*COMING SOON TO OLIVE-HARVEY

The Advanced Certificate program in Automotive Technology provides the necessary foundation and practical experience to pursue entry-level positions in Automotive Technology that meet the changing demands of the automotive industry. Entry-level positions may be found in automotive dealerships, automotive franchises, independent service repair shops, auto part stores, or through self-employment. Students will learn the technical skills essential to employment in the field of maintenance technology, chassis, diesel, and power train, leading to employment in service, maintenance, as well as management occupations or self-employment. Students will also be able to consider transferring Industrial Engineering Technology credits to state universities.

For more info on the Advanced Certificate in Automotive Technology, please visit [www.ccc.edu/programs/Pages/Automotive-\(Technology\)-Advanced-Certificate.aspx](http://www.ccc.edu/programs/Pages/Automotive-(Technology)-Advanced-Certificate.aspx).

Required Program Core 46 Credit Hours

Automotive Technology (0105)

101 Introduction to Automotive Technology.....	4
103 Engine Concepts.....	4
104 Electrical Systems and Power Accessories	4
106 Fuel Systems	5
109 Automotive Brakes.....	4
204 Electrical Systems.....	4
207 Transmissions, Transaxle, and Driveline	4
209 Steering and Suspension Systems	4
210 Performance and Drivability	5
212 Manual Drive Train and Axles	4
215 Automotive Temperature Control Systems	4

Total Program Credit Hours 46 Credit Hours

PROGRAM OFFERED AT: 

AUTOMOTIVE TECHNOLOGY (TRACK 1)

Associate in Applied Science (0125)

The AAS degree in Automotive Technology provides the necessary foundation and practical experience to pursue entry-level positions that meet the changing demands of the automotive industry. Entry-level positions may be found in automotive dealerships and franchises, independent service repair shops, auto part stores, or through self-employment. Students will learn the skills essential to employment in the field of maintenance technology, auto body care, chassis, diesel, and power train, leading to employment in service, maintenance,

and areas of technological specialty such as detailing, auto body paint and refinishing, as well as management occupations or self-employment. Students will also be able to consider transferring Industrial Engineering Technology credits to state universities.

For more info on the Associate in Applied Science degree in Automotive Technology, please visit [www.ccc.edu/programs/Pages/Automotive-\(Technology\)-Associate-in-Applied-Science.aspx](http://www.ccc.edu/programs/Pages/Automotive-(Technology)-Associate-in-Applied-Science.aspx).

General Education Coursework 18 Credit Hours

English (0035)

101 Composition I.....	3
Additional General Education Courses	15

Select an additional 15 hours of general education courses from Communications, Fine Arts & Humanities, Mathematics, Social & Behavioral Sciences, or Physical & Life Sciences.

At least one course must meet the Human Diversity (HD) requirement.

Required Program Core 28 Credit Hours

Automotive Technology (0105)

101 Introduction to Automotive Technology.....	4
103 Engine Concepts	4
104 Electrical Systems and Power Accessories	4
109 Automotive Brakes.....	4
209 Steering and Suspension Systems	4
211 Automotive Service Management.....	4
215 Automotive Temperature Control Systems	4

Additional Core 12 Credit Hours

Automotive Technology (0105)

105 Fuel Management I.....	4
205 Fuel Management II.....	4
206 Fuel Management III.....	4

Program Electives 8 Credit Hours

Students must select a minimum of 8 credit hours from the following courses:

Automotive Technology (0105)

108 Work-Based Learning I.....	3
204 Electrical Systems II	4
207 Transmissions, Transaxle and Driveline	4

Computer Information Systems (0032)

120 Introduction to Microcomputers.....	3
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Total Program Credit Hours 66 Credit Hours

PROGRAM OFFERED AT: 

AUTOMOTIVE TECHNOLOGY (TRACK 2)**Associate in Applied Science (0125)**

The AAS program in Automotive Technology prepares student to meet the ever changing demands of the automotive industry by providing the necessary technical skills and practical experience essential to pursuing an entry-level position. Entry-level positions may be found in automotive dealerships, automotive franchises, independent service repair shops, auto part stores, or through self-employment. Upon completion of the program, the graduates may be able to seek employment opportunities as Automotive Technician Apprentices, Service Writers, or Auto Parts Personnel as well as other jobs. This Program is NATEF (National Automotive Technician Education Foundation) division of ASE (Automotive Service Excellence) accredited. The program also prepares students to continue their education with state universities. More information is available at the Truman Transfer Center.

For more info on the Associate in Applied Science degree in Automotive Technology, please visit [www.ccc.edu/programs/Pages/Automotive-\(Technology\)-Associate-in-Applied-Science.aspx](http://www.ccc.edu/programs/Pages/Automotive-(Technology)-Associate-in-Applied-Science.aspx).

following courses:

Automotive Technology (0105)

108 Work-Based Learning I 3

207 Transmissions, Transaxle and Driveline 4

211 Automotive Service Management 4

Computer Information Systems (0032)

120 Introduction to Microcomputers 3

Total Program Credit Hours 66 Credit Hours

PROGRAM OFFERED AT: 

General Education Coursework 18 Credit Hours

English (0035)

101 Composition I 3

Additional General Education Courses 15

Select an additional 15 hours of general education courses from Communications, Fine Arts & Humanities, Mathematics, Social & Behavioral Sciences, or Physical & Life Sciences.

At least one course must meet the Human Diversity (HD) requirement.

Required Program Core 28 Credit Hours

Automotive Technology (0105)

101 Introduction to Automotive Technology 4

103 Engine Concepts 4

104 Electrical Systems and Power Accessories 4

109 Automotive Brakes 4

204 Electrical Systems II 4

209 Steering and Suspension Systems 4

215 Automotive Temperature Control Systems 4

Additional Core 14 Credit Hours

Automotive Technology (0105)

106 Fuel Systems 5

210 Performance and Drivability 5

212 Manual Drive Train and Axles 4

Program Electives 6 Credit Hours

Students must select a minimum of 6 credit hours from the

AUTOMOTIVE TECHNOLOGY (TRACK 3)

Associate in Applied Science (0125)*

*COMING SOON TO OLIVE-HARVEY

The AAS degree in Automotive Technology provides the necessary foundation and practical experience to pursue entry-level positions that meet the changing demands of the automotive industry. Entry-level positions may be found in automotive dealerships and franchises, independent service repair shops, auto part stores, or through self-employment. Students will learn the skills essential to employment in the field of maintenance technology, auto body care, chassis, diesel, and power train, leading to employment in service, maintenance, and areas of technological specialty such as detailing, auto body paint and refinishing, as well as management occupations or self-employment. Students will also be able to consider transferring Industrial Engineering Technology credits to state universities.

For more info on the Associate in Applied Science degree in Automotive Technology, please visit [www.ccc.edu/programs/Pages/Automotive-\(Technology\)-Associate-in-Applied-Science.aspx](http://www.ccc.edu/programs/Pages/Automotive-(Technology)-Associate-in-Applied-Science.aspx).

General Education Coursework 19 Credit Hours

English (0035)	
101 Composition I	3
Mathematics (0045)	
118 General Education Mathematics OR	4
107 Mathematics for Technicians	4
Social Science (0088)	
101 General Course Social Science	3
Humanities (0041)	
201 General Course Humanities	3
Physical Science (0076)	
107 Current Public Issues in Physical Science	3
Africana Studies (0117) OR History (0085)	
101 Introduction to African-American Studies (HD) OR	3
141 History World Civilization to 1500 (HD) OR	3
215 History of Latin America (HD)	3

Required Program Core 38 Credit Hours

Automotive Technology (0105)	
101 Introduction to Automotive Technology	4
103 Engine Concepts	4
104 Electrical Systems and Power Accessories	4
106 Fuel Systems	5
109 Automotive Brakes	4
209 Steering and Suspension Systems	4
210 Performance and Drivability	5
211 Automotive Service Management OR	4
212 Manual Drive Train and Axles	4

215 Automotive Temperature Control Systems	4
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Program Electives 9 Credit Hours

Students must select a minimum of 9 credit hours from the following courses:

Automotive Technology (0105)	
207 Transmissions, Transaxle and Driveline	4
211 Automotive Service Management OR	4
108 Work-Based Learning I	6
Computer Information Systems (0032)	
120 Introduction to Microcomputers	3

At least one course must meet the Human Diversity (HD) requirement.

Total Program Credit Hours 66 Credit Hours

PROGRAM OFFERED AT: 

CLASS C DRIVER TRAINING

Basic Certificate (0405)

The Class C Driver Training program is designed to provide students with an in-depth coverage of the laws, rules and regulations that are applicable to the operation of both commercial and non-commercial motor vehicles. Students will gain knowledge and skills in the areas of vehicle inspection, pre-testing, skill operations and defensive driving techniques. Students will be eligible to apply for positions such as delivery driver, para-transit driver and/or medi-car driver.

For more info on the Basic Certificate in Class C Driver Training, please visit www.ccc.edu/programs/Pages/Class-C-Driver-Training-Basic-Certificate.aspx.

Required Program Core 3 Credit Hours

Short-Term Trade/Industrial/Trans (0504)	
145 Class C Driver Training	3

Total Program Credit Hours 3 Credit Hours

PROGRAM OFFERED AT: 

COLLISION TECHNOLOGY

Advanced Certificate (0133)

The Advanced Certificate program in Collision Technology provides the necessary foundation and practical experience to pursue entry-level positions in Automotive Collision that meet the changing demands of the automotive industry. Entry-level positions may be found in automotive dealerships, automotive franchises, independent service repair shops, auto part stores, or through self-employment. Students will learn the technical skills essential to employment in the field of auto body care, leading to employment in service, maintenance, and areas of technological specialty such as detailing, auto body paint and refinishing, as well as management occupations or self-employment. Students will also be able to consider transferring Industrial Engineering Technology credits to state universities.

For more info on the Advanced Certificate in Collision Technology, please visit www.ccc.edu/programs/Pages/Automotive-Collision-Technology-Advanced-Certificate.aspx.

Required Program Core 40 Credit Hours

Automotive Technology (0105)	
102 Introduction to Collision Technology	4
107 Automotive Body Welding	4
117 Automotive Body Reconstruction I	3
118 Automotive Body Repainting I	3
119 Automotive Body Detailing	5
121 Structural Analysis and Damage Repair I	4
122 Structural Analysis and Damage Repair II	4
217 Automotive Body Reconstruction II	3
218 Automotive Body Repainting II	3
220 Collision Estimating	4
223 Automotive Body Repainting III	3

Total Program Credit Hours 40 Credit Hours

PROGRAM OFFERED AT: 

COMMERCIAL DRIVER TRAINING: CLASS A

Basic Certificate (0876)

The Commercial Driver Training certificate program is designed for individuals with little or no commercial driving experience. The Commercial Driver Training program trains students for entry level employment as commercial motor vehicle operators. In partnership with the Illinois Department of Transportation, this program prepares students to obtain a Commercial Driver's License in the State of Illinois.

For more info on the Basic Certificate in Commercial Driver Training, please visit www.ccc.edu/programs/Pages/Commercial-Driver-Training-Basic-Certificate.aspx.

Required Program Core 16 Credit Hours

Short-Term Trade/Industrial/Trans (0504)	
106 Road Driving	2
148 Commercial Driving Training Practice	7
337 Commercial Driver Training Theory	7

Total Program Credit Hours 16 Credit Hours

PROGRAM OFFERED AT: 

COMMERCIAL PASSENGER DRIVER: CLASS B

Basic Certificate (0875)

The Commercial Passenger Driver: Class B certificate program is designed for students with minimum experience who are trained to operate Class B passenger and non-passenger motor vehicles. In partnership with the Illinois Department of Transportation, the program prepares students for a Class B Commercial Driver's License in the State of Illinois.

For more info on the Basic Certificate in Commercial Passenger Driver: Class B, please visit www.ccc.edu/programs/Pages/Commercial-Passenger-Driver-Class-B-Basic-Certificate.aspx.

Required Program Core 9 Credit Hours

Short-Term Trade/Industrial/Trans (0504)	
147 Passenger Driver Practice	4
338 Passenger Driver Theory	5

Total Program Credit Hours 9 Credit Hours

PROGRAM OFFERED AT: 

DEFENSIVE DRIVING: ATTITUDINAL

Basic Certificate (0890)

The Defensive Driving Attitudinal certificate program comprises an eight-hour workshop which addresses the needs of those individuals who are repeat violators of traffic rules and regulations and newly licensed chauffeurs who have been driving in the United States for at least three years. This training component is certified by the National Safety Council. Topics include the violation of rules and regulations, cultural sensitivity, anger management and conflict resolution, as well as behavior modification approaches for effective customer service. Additionally, the training also reviews the Illinois Rules of the Road Handbook and prepares the inexperienced chauffeur driver for the road. Students will receive the National Safety Council certificates of completion once they successfully complete the workshop program.

For more info on the Basic Certificate in Defensive Driving: Attitudinal, please visit www.ccc.edu/programs/Pages/Defensive-Driving-Attitudinal-Basic-Certificate.aspx.

Required Program Core	1 Credit Hour
Short-Term Trade/Industrial/Trans (0504)	
114 Defensive Driving/Attitudinal	1
Total Program Credit Hours	1 Credit Hour

PROGRAM OFFERED AT: 

DIESEL TECHNOLOGY

Basic Certificate (0402)*

**COMING SOON TO OLIVE-HARVEY*

The Diesel Technology Basic Certificate Program introduces students to the basic fundamentals of diesel technology and provides them with the necessary entry-level skills and theory to enter either the medium/heavy duty or construction equipment service/repair fields. This certificate prepares students to become repair technicians. Graduates will be qualified for positions requiring diagnosis and repair of diesel engines, suspension and steering, brakes, and electrical and electronic systems.

For more info on the Basic Certificate in Diesel Technology, please visit www.ccc.edu/programs/Pages/Diesel-Technology-Basic-Certificate.aspx.

Required Program Core	20 Credit Hours
Mathematics (0045)	
107 Mathematics for Technicians I	5
Logistics/Transportation/Distribution (0330)	
111 Introduction to Diesel Technology	3
112 Diesel Electrical Systems I.....	3
113 Introduction to Diesel Engine Construction	3

PROGRAM OFFERED AT: 

114 Diesel Engine Construction I.....	3
115 Suspension and Steering.....	3

Total Program Credit Hours 20 Credit Hours

PROGRAM OFFERED AT: 

DIESEL TECHNOLOGY

Advanced Certificate (0401)*

**COMING SOON TO OLIVE-HARVEY*

The Diesel Technology Advanced Certificate program provides students with the training needed for maintaining and repairing heavy-duty diesel powered equipment. Instructional training is heavily focused on diesel engines performance, hydraulics, electrical, air conditioning, and drive trains.

For more info on the Advanced Certificate in Diesel Technology, please visit www.ccc.edu/programs/Pages/Diesel-Technology-Advanced-Certificate.aspx.

Required Program Core	50 Credit Hours
English (0035)	
101 Composition I.....	3
Physical Science (0076)	
112 General Course II Physical Science	4
Mathematics (0045)	
107 Mathematics for Technicians I	4
Logistics/Transportation/Distribution (0330)	
111 Introduction to Diesel Technology.....	3
112 Diesel Electrical Systems I.....	3
113 Introduction to Diesel Engine Construction.....	3
114 Diesel Engine Construction I.....	3
115 Suspension and Steering.....	3
116 Diesel Brakes.....	3
209 Diesel Electrical Systems II.....	3
211 Diesel Preventative Maintenance	3
213 Diesel Engine Construction II.....	3
214 Emission Controls.....	3
215 Diesel Engine Performance	3
216 Heavy Duty Drives I (Manual).....	3
218 Heating and Air Conditioning	3
Total Program Credit Hours	50 Credit Hours

PROGRAM OFFERED AT: 

DIESEL TECHNOLOGY**Associate in Applied Science (0400)***

*COMING SOON TO OLIVE-HARVEY

The Associate in Applied Science degree in Diesel Technology equips students with the skills necessary to repair and maintain diesel-powered highway, industrial, and marine vehicles and equipment. Students will gain more detailed instructions in how diesel maintenance techniques and principles are applied in diagnosing malfunctions and prescribing corrective action. The course work highlights diesel service management, critical thinking and problem solving, theory and skills of refrigeration, electronic and mechanical fuel injection, chassis maintenance, vehicle inspection, tune-up, engine overhaul, transmission repair, brake service, handling hazardous waste and preventative maintenance. Students will also be eligible to take the National Institute of Automotive Service Excellence (NAISE) examinations in heavy truck mechanics, Allison Transmission certification, and Hybrid certification.

For more info on the Associate in Applied Science degree in Diesel Technology, please visit www.ccc.edu/programs/Pages/Diesel-Technology-Associate-in-Applied-Science.aspx.

General Education Coursework 16 Credit Hours

English (0035)

101 Composition I 3

Physical Science (0076)

102 General Course Physical Science..... 3

112 General Course II Physical Science..... 4

Africana Studies (0117) **OR** Humanities (0041)101 Introduction to African-American Studies (HD) **OR** 3143 Introduction to Latin American/Latino Studies (HD) **OR** . 3

215 The Art and Philosophy of the African Continent (HD)... 3

Geography (0084) **OR** Economics (0082)101 World Geography **OR**..... 3

201 Principles of Economics 3

Required Program Core 54 Credit Hours

Mathematics (0045)

107 Mathematics for Technicians I 4

Logistics/Transportation/Distribution (0330)

111 Introduction to Diesel Technology 3

112 Diesel Electrical Systems I 3

113 Introduction to Diesel Engine Construction 3

114 Diesel Engine Construction I 3

115 Suspension and Steering 3

116 Diesel Brakes 3

209 Diesel Electrical Systems II 3

211 Diesel Preventative Maintenance..... 3

213 Diesel Engine Construction II 3

214 Emission Controls.....	3
215 Diesel Engine Performance	3
216 Heavy Duty Drives I (Manual).....	3
217 Heavy Duty Drives II (Automatic).....	3
218 Heating and Air Conditioning	3
219 Hydraulic Systems	4
220 Advanced Diagnostics	4

At least one course must meet the Human Diversity (HD) requirement.

Total Program Credit Hours 70 Credit HoursPROGRAM OFFERED AT: **FORKLIFT OPERATION AND SAFETY****Basic Certificate (0848)**

The Forklift Operation and Safety Certificate Program prepares students to become safe and effective forklift operators. Upon completion of the program, students will have working knowledge of the basic use of lift trucks, as well as the ability to safely inspect and operate lift trucks. The curriculum includes theory and practical training.

For more info on the Basic Certificate in Forklift Operation and Safety, please visit www.ccc.edu/programs/Pages/Forklift-Operation-and-Safety-Basic-Certificate.aspx.

Required Program Core 2 Credit Hours

Short-Term Trade/Industrial/Trans (0504)

118 Forklift Operator..... 2

Total Program Credit Hours 2 Credit HoursPROGRAM OFFERED AT: 

LIMOUSINE–RESTRICTED CHAUFFEUR TRAINING

Basic Certificate (0889)

The Limousine-Restricted Chauffeur Training basic certificate program is an intensive, one-day training that prepares individuals to become restricted public chauffeurs. Students participating in this training are eligible to become licensed to drive a livery/limousine. The training is offered four times each month and is intended to serve as a preparatory course to assist individuals with the successful completion of the restricted public chauffeur's license exam. Students learn current chauffeur rules and regulations, as well as information on new cultural attractions, buildings, hospitals and hotels.

For more info on the Basic Certificate in Limousine–Restricted Chauffeur Training, please visit www.ccc.edu/programs/Pages/Limousine-Residential-Chauffeur-Training-Basic-Certificate.aspx.

Required Program Core 1 Credit Hour

Short-Term Trade/Industrial/Trans (0504)

113 Limousine/Residential Chauffeur Training 1

Total Program Credit Hours 1 Credit Hour

PROGRAM OFFERED AT: 

PUBLIC PASSENGER VEHICLE TRAINING: TAXI

Basic Certificate (0715)

The Basic Certificate program for Public Passenger Vehicle Training: Taxi is designed to prepare individuals to become public chauffeurs in the City of Chicago and to take the Public Chauffeur License examination issued by the Chicago Department of Business Affairs and Consumer Protection. This six-day comprehensive training program covers Chicago geography navigation, departmental rules and regulations, accessibility training, and professional development.

For more info on the Basic Certificate in Public Passenger Vehicle Training-Taxi, please visit www.ccc.edu/programs/Pages/Public-Passenger-Vehicle-Training-Taxi-Basic-Certificate.aspx.

Required Program Core 3 Credit Hours

Business and Commercial Tech TC1 (330)

121 Professional Development 1

122 Rules and Regulations 0.5

123 Geography 1

124 Taxi Accessibility Program 0.5

Total Program Credit Hours 3 Credit Hours

PROGRAM OFFERED AT: 

SUPPLY CHAIN MANAGEMENT AND LOGISTICS

Basic Certificate (0739)

The Basic Certificate in Transportation, Distribution, and Logistics is designed to provide students who have little or no formal knowledge of the industry with introductory information and understand of the TDL industry. Students will learn the different TDL modalities, identify source types, and learn industry terminology and protocols, as well as applicable rules and regulations.

For more info on the Basic Certificate in Transportation, Distribution, and Logistics, please visit www.ccc.edu/programs/Pages/Transportation-Distribution-and-Logistics-Basic-Certificate.aspx.

Required Program Core 15 Credit Hours

Logistic/Transportation/Distribution (0330)

150 Introduction to Transportation Admin..... 3

152 Introduction to Business Logistics..... 3

154 Customer Service Operations..... 3

155 Warehouse Management 3

158 Purchasing..... 3

Total Program Credit Hours 15 Credit Hours

PROGRAM OFFERED AT: 

SUPPLY CHAIN MANAGEMENT AND LOGISTICS**Advanced Certificate (0738)**

The Advanced Certificate in Transportation, Distribution, and Logistics is designed for students that have a working understanding of the operational policies and procedures of the TDL industry.

For more info on the Advanced Certificate in Transportation, Distribution, and Logistics, please visit www.ccc.edu/programs/Pages/Transportation-Distribution-and-Logistics-Advanced-Certificate.aspx.

Required Program Core 30 Credit Hours

English (0035)

101 Composition I3

Mathematics (0045)

Any General Education Mathematics3

Computer Information Systems (0032)

120 Introduction to Microcomputers3

Logistic/Transportation/Distribution (0330)

150 Introduction to Transportation Administration.....3

152 Introduction to Business Logistics.....3

154 Customer Service Operations3

155 Warehouse Management3

158 Purchasing3

159 Inventory Management3

160 Operations Management.....3

Total Program Credit Hours 30 Credit HoursPROGRAM OFFERED AT: 

SUPPLY CHAIN MANAGEMENT AND LOGISTICS

Associate in Applied Science (0737)

The Associate in Applied Science degree in Transportation, Distribution, and Logistics provides students with a direct experience working in a logistics environment, building skills critical to success including: operations/business development, receiving, shipping, and case analysis. The program prepares students for working from entry level to supervisory positions. Students will receive three semesters of practical logistics operations experience, working at the college’s on-site distribution center, the “Central Store”.

For more info on the Associate in Applied Science degree in Transportation, Distribution, and Logistics, please visit www.ccc.edu/programs/Pages/Transportation-Distribution-and-Logistics-Asssociate-in-Applied-Science.aspx.

General Education Coursework 18 Credit Hours

English (0035)	
101 Composition I	3
Mathematics (0045)	
Any General Education Mathematics	4
Psychology (0087)	
201 General Psychology	3
Economics (0082)	
201 Principles of Economics	3
Any Social or Behavioral Science Gen-Ed that satisfies HD	
3	
Speech (0095)	
101 Fundamentals of Speech Communication	3

Required Program Core 42 Credit Hours

Logistic/Transportation/Distribution (0330)	
150 Introduction to Transportation Administration.....	3
152 Introduction to Business Logistics.....	3
154 Customer Service Operations	3
155 Warehouse Management	3
158 Purchasing.....	3
159 Inventory Management.....	3
160 Operations Management.....	3
180 E-Commerce/E-Procurement.....	3
181 Demand Planning & Forecasting	3
182 Global Logistics.....	3
Computer Information Systems (0032)	
120 Introduction to Microcomputers.....	3

Program Electives 9 Credit Hours

Students must complete 9 hours of electives from the

following.

Business (0030)	
111 Introduction to Business	3
180 Fundamentals of Accounting	3
181 Financial Accounting	4
182 Managerial Accounting.....	4
211 Business Law I	3
231 Marketing.....	3
232 Fundamentals of International Business.....	3
237 Selling.....	3
269 Principles of Management	3
274 Industrial Management	3
284 Business Communications	3
Computer Information Systems (0032)	
123 Microcomputer Spreadsheets	3
Mathematics (0045)	
125 Introductory Statistics.....	4
Economics (0082)	
202 Principles of Economics II	3
Logistic/Transportation/Distribution (0330)	
151 Central Stores – Applied Logistics.....	6

Total Program Credit Hours 60 Credit Hours

PROGRAM OFFERED AT: 

The below chart lists every subject currently found in the Credit Course Descriptions section of this Academic Catalog, along with their corresponding prefix code and ICCB numeric code. The subjects are listed in alphabetical order.

SUBJECT	SUBJECT PREFIX CODE	ICCB NUMERIC CODE
Africana Studies	AFRO AM	0117
Air Conditioning	AIR CON	0094
Anthropology	ANTHRO	0081
Arabic	ARABIC	0144
Architecture	ARCHITC	0005
Art	ART	0010
Astronomy	ASTROMY	0071
Automotive Technology	AUTOTEC	0105
Baking & Pastry	330BKPS	0330
Biology	BIOLOGY	0023
Botany	BOTANY	0025
Broadcasting	BROADCT	0011
Business	BUSINES	0030
Business and CommercialTechTC1	330BSCM	0330
CAD Technology	CAD TEC	0049
CE Business Management	CE BSMT	0502
CE Health	CE HLTH	0500
CE Trade / Industrial / Trans	CE TRDE	0504
Chemistry	CHEM	0073
Child Development	CHLD DV	0090
Chinese	CHINESE	0141
College Survival	COLSURV	0104
Communication (Integrated)	ESLCOMM	0139
Communication Media	CMMEDIA	0004
Cybersecurity	COMPSFI	0162
Comparative Religion	RELIGN	0133
Computer Information Systems	CIS	0032
Construction Management	432CMGT	0432
Construction Materials Technic	432CNMT	0432
Cooperative Work Experience	COOP EX	0008
Cosmetology	COSMET	0163
Criminal Justice	CRM JUS	0080
Culinary	330CUL	0330
Dance	DANCE	0097
Dental Hygiene	DENTHYG	0100
Digital Multimedia	DMD	0138
Economics	ECON	0082
Education	EDUC	0083
Electronics	ELECTRN	0033
Elevator Courses	432ELEV	0432
Emergency Medical Technician	EMT	0120
Engineering	ENGR	0034
Engineering & Industrial TC1	332ENGR	0332
Engineering & Industrial TC6	432ENGR	0432
English	ENGLISH	0035
Entrepreneurship	ENTRE	0143
Environment Studies	ENVR ST	0026
Environment Technology	ENVR TC	0027
Environmental Control Tech	ENVR CN	0097
ESL (Integrated)	ESLINTG	0136
ESL Reading	ESLREAD	0137
ESL Speech	ESLSPCH	0195
ESL Writing	ESLWRIT	0135

SUBJECT	SUBJECT PREFIX CODE	ICCB NUMERIC CODE
Exercise Sci and Sports Studies	ESSS	0147
Fine Arts	FIN ART	0042
Fire Sci Mgmt/Fire Serv Op	FIREMGT	0152
Food Service Administration	FOODSRV	0038
Foundational Studies ESL	FS ESL	0840
Foundational Studies Math	FS MATH	0830
Foundational Studies Reading	FS READ	0810
Foundational Studies Writing	FS WRIT	0820
French	FRENCH	0051
French Pastry School	330FPS	0330
Geography	GEOG	0084
Geology	GEOLOGY	0075
Graphics Communications	GRAPHIC	0009
Health	HEALTH	0001
Health Information Technology	HIT	0145
Health Professions	HEAPRO	0146
Health Science	HLH SCI	0124
Health Technology TC4	334HLTH	0334
History	HISTORY	0085
Horticulture	HORTIC	0096
Hospitality Management	HMGTT	0330
Human Dev and Family Studies	HDFS	0168
Humanities	HUM	0041
IBEW	432IBEW	0432
Inspector Programs	432INSP	0432
Institutional Food Service	FOODINS	0039
Integrated Communication	INTCOMM	0139
Interdisciplinary Studies	INTDSP	0104
Italian	ITALIAN	0052
Japanese	JAPANES	0054
Latin Courses	LATIN	0142
Library & Information Science	LIS	0039
Library Technology	LIB TEC	0050
Linguistics	LING	0132
Literature	LIT	0036
Logistics/Transportation/Distr	330TRNS	0330
Manufacturing Tech TC1	340MFGT	0340
Massage Therapy	MAS	0149
Mathematics	MATH	0045
Mechanical Technology	MEC TEC	0049
Media Communication	MEDIACM	0011
Medical Assisting	MEDASST	0153
Mental Health	MENHLTH	0118
Microbiology	MCROBIO	0024
Mortuary Science	MOR SCI	0128
Music	MUSIC	0060
Networking Technologies	NET TEC	0165
Nursing	NURSING	0063
Occupational Therapy Assistant	OTA	0122
Oceanography	OCEAN	0070
Painting and Decorating Tech	432PDT	0432
Pharmacy Technology	PHAR TC	0062
Phi Theta Kappa	PTKAPPA	0131
Philosophy	PHIL	0043
Phlebotomy	PHLEB	0113
Physical Education	PHYS ED	0065
Physical Science	PHY SCI	0076
Physical Therapist Assistant	PTA	0151

SUBJECT	SUBJECT PREFIX CODE	ICCB NUMERIC CODE
Physics	PHYSICS	0077
Polish	POLISH	0046
Political Science	POL SCI	0086
Process Technology	340PRTE	0340
Psychiatric Rehabilitation	PS REHB	0134
Psychology	PSYCH	0087
Radiography	RADIOGR	0021
Reading	READING	0037
Respiratory Therapy	RESP TC	0061
Short Term Health	STHLTH	0500
Short Term Trd/Indstrl/Trnsprt	STTRDE	0504
Short Trm Busn/Profession Srvc	STBPS	0502
Social Science	SOC SCI	0088
Social Service	SOC SER	0091
Sociology	SOC	0089
Spanish	SPANISH	0057
Speech	SPEECH	0095
Supply Chain Mgmt & Logistics	SCML	0333
Surgical Technology	SURG TC	0016
Technology 330	330TECH	0330
Technology 332	332TECH	0332
Theater Art	THR ART	0099
Transportation, Distri, Logis	330TDL	0330
Visual Communications	VIS COM	0009
Zoology	ZOOLOGY	0029

The below chart lists every subject currently found in the Credit Course Descriptions section of this Academic Catalog, along with their corresponding prefix code and ICCB numeric code. The subjects are listed in numerical order.

SUBJECT	SUBJECT PREFIX CODE	ICCB NUMERIC CODE
Health	HEALTH	0001
Communication Media	CMMEDIA	0004
Architecture	ARCHITC	0005
Cooperative Work Experience	COOP EX	0008
Graphics Communications	GRAPHIC	0009
Visual Communications	VIS COM	0009
Art	ART	0010
Broadcasting	BROADCT	0011
Media Communication	MEDIACM	0011
Surgical Technology	SURG TC	0016
Radiography	RADIOGR	0021
Biology	BIOLOGY	0023
Microbiology	MCROBIO	0024
Botany	BOTANY	0025
Environment Studies	ENVR ST	0026
Environment Technology	ENVR TC	0027
Zoology	ZOOLOGY	0029
Business	BUSINES	0030
Computer Information Systems	CIS	0032
Electronics	ELECTRN	0033
Engineering	ENGR	0034
English	ENGLISH	0035
Literature	LIT	0036
Reading	READING	0037
Food Service Administration	FOODSRV	0038
Institutional Food Service	FOODINS	0039
Library & Information Science	LIS	0039
Humanities	HUM	0041
Fine Arts	FIN ART	0042
Philosophy	PHIL	0043
Mathematics	MATH	0045
Polish	POLISH	0046
CAD Technology	CAD TEC	0049
Mechanical Technology	MEC TEC	0049
Library Technology	LIB TEC	0050
French	FRENCH	0051
Italian	ITALIAN	0052
Japanese	JAPANES	0054
Spanish	SPANISH	0057
Music	MUSIC	0060
Respiratory Therapy	RESP TC	0061
Pharmacy Technology	PHAR TC	0062
Nursing	NURSING	0063
Physical Education	PHYS ED	0065
Oceanography	OCEAN	0070
Astronomy	ASTROMY	0071
Chemistry	CHEM	0073
Geology	GEOLOGY	0075
Physical Science	PHY SCI	0076
Physics	PHYSICS	0077
Criminal Justice	CRM JUS	0080
Anthropology	ANTHRO	0081
Economics	ECON	0082
Education	EDUC	0083

SUBJECT	SUBJECT PREFIX CODE	ICCB NUMERIC CODE
Geography	GEOG	0084
History	HISTORY	0085
Political Science	POL SCI	0086
Psychology	PSYCH	0087
Social Science	SOC SCI	0088
Sociology	SOC	0089
Child Development	CHLD DV	0090
Social Service	SOC SER	0091
Air Conditioning	AIR CON	0094
Speech	SPEECH	0095
Horticulture	HORTIC	0096
Dance	DANCE	0097
Environmental Control Tech	ENVR CN	0097
Theater Art	THR ART	0099
Dental Hygiene	DENTHYG	0100
College Survival	COLSURV	0104
Interdisciplinary Studies	INTDSP	0104
Automotive Technology	AUTOTEC	0105
Phlebotomy	PHLEB	0113
Africana Studies	AFRO AM	0117
Mental Health	MENHLTH	0118
Emergency Medical Technician	EMT	0120
Occupational Therapy Assistant	OTA	0122
Health Science	HLH SCI	0124
Mortuary Science	MOR SCI	0128
Phi Theta Kappa	PTKAPPA	0131
Linguistics	LING	0132
Comparative Religion	RELIGN	0133
Psychiatric Rehabilitation	PS REHB	0134
ESL Writing	ESLWRIT	0135
ESL (Integrated)	ESLINTG	0136
ESL Reading	ESLREAD	0137
Digital Multimedia	DMD	0138
Communication (Integrated)	ESLCOMM	0139
Integrated Communication	INTCOMM	0139
Chinese	CHINESE	0141
Latin Courses	LATIN	0142
Entrepreneurship	ENTRE	0143
Arabic	ARABIC	0144
Health Information Technology	HIT	0145
Health Professions	HEAPRO	0146
Exercise Sci and Sports Studies	ESSS	0147
Massage Therapy	MAS	0149
Physical Therapist Assistant	PTA	0151
Fire Sci Mgmt/Fire Serv Op	FIREMGT	0152
Medical Assisting	MEDASST	0153
Cybersecurity	COMPSFI	0162
Cosmetology	COSMET	0163
Networking Technologies	NET TEC	0165
Human Dev and Family Studies	HDFS	0168
ESL Speech	ESLSPCH	0195
Baking & Pastry	330BKPS	0330
Business and CommercialTechTC1	330BSCM	0330
Culinary	330CUL	0330
French Pastry School	330FPS	0330
Hospitality Management	HMGMT	0330
Logistics/Transportation/Distr	330TRNS	0330
Technology 330	330TECH	0330

SUBJECT	SUBJECT PREFIX CODE	ICCB NUMERIC CODE
Transportation, Distri, Logis	330TDL	0330
Engineering & Industrial TC1	332ENGR	0332
Technology 332	332TECH	0332
Supply Chain Mgmt & Logistics	SCML	0333
Health Technology TC4	334HLTH	0334
Manufacturing Tech TC1	340MFGT	0340
Process Technology	340PRTE	0340
Construction Management	432CMGT	0432
Construction Materials Technic	432CNMT	0432
Elevator Courses	432ELEV	0432
Engineering & Industrial TC6	432ENGR	0432
IBEW	432IBEW	0432
Inspector Programs	432INSP	0432
Painting and Decorating Tech	432PDT	0432
CE Health	CE HLTH	0500
Short Term Health	STHLTH	0500
CE Business Management	CE BSMT	0502
Short Trm Busn/Profession Srvc	STBPS	0502
CE Trade / Industrial / Trans	CE TRDE	0504
Short Term Trd/Indstrl/Trnsprt	STTRDE	0504
Foundational Studies Reading	FS READ	0810
Foundational Studies Writing	FS WRIT	0820
Foundational Studies Math	FS MATH	0830
Foundational Studies ESL	FS ESL	0840

The below chart lists every General Education (GE) course currently offered at City Colleges of Chicago and their corresponding categories. For the location of GE courses, please refer to the Credit Course Descriptions.

SUBJECT	#	TITLE	CATEGORY
Africana Studies	101	Introduction to African-American Studies	Fine Arts & Humanities
Anthropology	201	Intro to Biological and Cultural Evolutions of Humans	Social & Behavioral Sciences
Anthropology	202	Cultural Anthropology	Social & Behavioral Sciences
Anthropology	205	Applied Anthropology	Social & Behavioral Sciences
Anthropology	206	Introduction to Archaeology	Social & Behavioral Sciences
Anthropology	210	North American Archaeology	Social & Behavioral Sciences
Arabic	104	Intermediate Arabic II	Humanities
Art	103	Art Appreciation	Fine Arts
Art	112	Experiences in African American Art	Fine Arts
Astronomy	201	Descriptive Astronomy	Physical Sciences
Biology	107	Nutrition-Consumer Education	Life Sciences
Biology	109	Human Genetics & Evolution	Life Sciences
Biology	113	The Biology Of Women	Life Sciences
Biology	114	General Education Biology	Life Sciences
Biology	115	Human Biology	Life Sciences
Biology	116	Introduction to Anatomy And Physiology	Life Sciences
Biology	119	Environmental Biology	Life Sciences
Biology	121	Biology I	Life Sciences
Biology	122	Biology II	Life Sciences
Botany	201	General Botany I	Life Sciences
Chemistry	121	Basic Chemistry I	Physical Sciences
Chemistry	201	General Chemistry I	Physical Sciences
Chinese	104	Chinese IV	Humanities
Communication Media	163	Film Rhetoric	Fine Arts
Comparative Religion	101	Introduction To Religion	Humanities
Comparative Religion	102	The Bible - Hebrew Old Test	Humanities
Comparative Religion	103	The Bible - New Testament	Humanities
Comparative Religion	104	Islamic Scriptures: The Qur'an	Humanities
Comparative Religion	106	Comparative Religion I/Eastern Religion	Humanities
Comparative Religion	107	Com Rel II Western Religion	Humanities
Comparative Religion	108	Religion And Psychology	Humanities
Economics	133	Consumer Economics	Social & Behavioral Sciences
Economics	201	Principles Of Economics I	Social & Behavioral Sciences
Economics	202	Principles Of Economics II	Social & Behavioral Sciences
Economics	204	Money And Banking	Social & Behavioral Sciences
English	101	Composition	Communications
English	102	Composition	Communications
Environment Studies	101	Man & Environment I	Life Sciences
Environment Technology	107	Environmental Geology	Physical Sciences
Fine Arts	103	Theater Arts	Fine Arts
Fine Arts	104	The World Of The Cinema	Fine Arts

SUBJECT	#	TITLE	CATEGORY
Fine Arts	105	History of Painting, Sculpture & Architecture	Fine Arts
Fine Arts	107	History of Architecture, Painting & Sculpture I	Fine Arts
Fine Arts	108	Hist Of Arch Paint Sculp II	Fine Arts
Fine Arts	109	History Of Cinema	Fine Arts
Fine Arts	110	Opera And The Humanities	Fine Arts
Fine Arts	111	History of Photography	Fine Arts
Fine Arts	112	Dance Appreciation	Fine Arts
French	104	Fourth Course French	Humanities
French	206	Intensive Oral Practice French	Humanities
French	210	Modern Civilization & Culture French	Humanities
French	213	Intro To Modern Literature French	Humanities
French	214	Readings In Literature French	Humanities
Geography	101	World Geography	Social & Behavioral Sciences
Geography	102	Economic Geography	Social & Behavioral Sciences
Geography	201	Physical Geography	Physical Sciences
Geology	201	Physical Geology	Physical Sciences
History	111	History of American People To 1865	Social & Behavioral Sciences
History	112	History of American People From 1865	Social & Behavioral Sciences
History	113	United States Labor History	Social & Behavioral Sciences
History	114	The Afro-American In American History	Social & Behavioral Sciences
History	115	Afro-American History Since 1865	Social & Behavioral Sciences
History	117	History Of Chicago Metropolitan Area	Social & Behavioral Sciences
History	118	Women In American History	Social & Behavioral Sciences
History	141	History of World Civilization to 1500	Social & Behavioral Sciences
History	142	Hist World Civiliz Frm 1500	Social & Behavioral Sciences
History	211	Problems In History	Social & Behavioral Sciences
History	212	History & Culture Of China	Social & Behavioral Sciences
History	215	History of Latin America	Social & Behavioral Sciences
History	225	Modern Middle East History	Social & Behavioral Sciences
History	230	Ancient History	Social & Behavioral Sciences
History	232	Modern European History 1500-1830	Social & Behavioral Sciences
History	233	Modern European History Since 1830	Social & Behavioral Sciences
History	243	The Far East in the Modern World	Social & Behavioral Sciences
History	247	African History to Colonial Period	Social & Behavioral Sciences
History	248	African History - Modern Period	Social & Behavioral Sciences
History	250	Topics in American History	Social & Behavioral Sciences
Humanities	105	The New World Of Mass Media	Humanities
Humanities	107	Pop Cul-Mirror Of Amer Life	Humanities
Humanities	123	Intro To Arts & Ideas	Fine Arts & Humanities
Humanities	141	Afro-American Arts	Humanities
Humanities	143	Intro to Latin American/Latino Studies	Fine Arts & Humanities
Humanities	144	Introduction to Women's and Gender Studies	Fine Arts & Humanities
Humanities	145	Intro to Diversity/Ethnic Studies	Fine Arts & Humanities
Humanities	146	Gay, Lesbian, Bisexual & Transgendered	Fine Arts & Humanities

SUBJECT	#	TITLE	CATEGORY
Humanities	201	General Course I Humanities	Fine Arts & Humanities
Humanities	202	General Course II Humanities	Fine Arts & Humanities
Humanities	203	Arts of Contemporary America	Fine Arts & Humanities
Humanities	205	World Literature I	Humanities
Humanities	206	World Literature II Existentialism	Humanities
Humanities	207	The Great Books	Humanities
Humanities	208	Women In Creative-Performing Arts	Fine Arts & Humanities
Humanities	210	Comparative Mythology	Humanities
Humanities	212	Non-Western Humanities	Fine Arts & Humanities
Humanities	213	Hispano - American Arts & Literature I	Fine Arts & Humanities
Humanities	214	Hispano - American Arts & Literature II	Fine Arts & Humanities
Humanities	215	The Art and Philosophy of the African Continent	Fine Arts & Humanities
Italian	104	Fourth Course Italian	Humanities
Japanese	104	Fourth Course Japanese	Humanities
Literature	110	Introduction To Literature	Humanities
Literature	111	Poetry	Humanities
Literature	112	Drama	Humanities
Literature	113	Fiction	Humanities
Literature	114	Ideas In Prose	Humanities
Literature	115	Great Books Seminar/Topics Literature	Humanities
Literature	116	American Literature from Colonial Days to Civil War	Humanities
Literature	117	American Literature from the Civil War to the 20th Century	Humanities
Literature	118	English Literature from its Beginnings to the Age of Johnson	Humanities
Literature	119	English Literature from the Romantic Revival to the 20th Century	Humanities
Literature	120	Contemporary British & American Literature	Humanities
Literature	121	Contemporary African American Literature	Humanities
Literature	122	Perspectives in Black Literature	Humanities
Literature	123	Literature of the U.S. from the Civil War to the Present	Humanities
Literature	124	Experimental Literature	Humanities
Literature	125	Psychology in Black Literature	Humanities
Literature	126	Contemporary American Literature	Humanities
Literature	127	Contemporary British Literature	Humanities
Literature	128	Latin American Literature	Humanities
Literature	129	U.S. Latino (a) Literature	Humanities
Literature	130	Children's Literature	Humanities
Literature	131	Survey Of Afro-American Poetry	Humanities
Literature	132	Native American Literature	Humanities
Literature	133	African American Fiction	Humanities
Literature	137	The Black Woman In Black Fiction	Humanities
Literature	150	Women's Literature	Humanities
Literature	153	Gay and Lesbian Literature	Humanities
Literature	155	Literature and Film	Fine Arts & Humanities

SUBJECT	#	TITLE	CATEGORY
Literature	156	Creative Non-fiction	Humanities
Literature	211	Shakespeare	Humanities
Literature	220	World Literature	Humanities
Literature	223	Intro To Literary Genres	Humanities
Literature	299	Science Fiction: Psychology & Prophecy	Humanities
Mathematics	125	Introductory Statistics	Mathematics
Mathematics	204	Calculus For Business & Social Sciences	Mathematics
Mathematics	118	General Education Math	Mathematics
Mathematics	121	Math For Elementary Teachers I	Mathematics
Mathematics	122	Math For Elementary Teachers II	Mathematics
Mathematics	127	Geometry/Trigonometry for Middle School Teachers	Mathematics
Mathematics	140	College Algebra	Mathematics
Mathematics	141	Plane Trigonometry	Mathematics
Mathematics	144	Finite Mathematics	Mathematics
Mathematics	146	Discrete Mathematics	Mathematics
Mathematics	207	Calculus & Analytic Geometry I	Mathematics
Mathematics	208	Calculus & Analytic Geometry II	Mathematics
Mathematics	209	Calculus & Analytic Geometry III	Mathematics
Music	101	Fundamentals of Music Theory	Fine Arts
Music	121	Introduction To Music	Fine Arts
Music	124	Trends In Mod Amer Music	Fine Arts
Music	131	Chorus	Fine Arts
Music	183	World Music	Fine Arts
Music	221	Music Literature & History	Fine Arts
Oceanography	101	Intro To Oceanography	Physical Sciences
Philosophy	105	Logic	Humanities
Philosophy	106	Introduction To Philosophy	Humanities
Philosophy	107	Ethics	Humanities
Philosophy	108	Philosophy Of Religion	Humanities
Philosophy	110	Social/Political Philosophy	Humanities
Philosophy	201	Greek Philo To Renaissance	Humanities
Philosophy	202	Enlightenment To Present	Humanities
Philosophy	215	Problems In Philosophy	Humanities
Philosophy	216	Critical Thinking	Humanities
Philosophy	225	Philosophy Of Art	Humanities
Physical Science	101	General Course Physical Science	Physical Sciences
Physical Science	102	General Course Physical Science	Physical Sciences
Physical Science	107	Current Public Issues in Physical Science	Physical Sciences
Physical Science	111	General Course I Physical Science	Physical Sciences
Physical Science	112	General Course II Physical Science	Physical Sciences
Physical Science	118	Introduction to Meteorology	Physical Sciences
Physics	131	Mechanics And Power	Physical Sciences
Physics	220	Physics Calculations & Practice	Physical Sciences
Physics	221	Mechanics, Waves, and Heat	Physical Sciences

SUBJECT	#	TITLE	CATEGORY
Physics	231	General Physics I: Mechanics & Wave Motion	Physical Sciences
Physics	235	Engineering Physics I: Mechanics & Wave Motion	Physical Sciences
Polish	104	Fourth Course Polish	Humanities
Political Science	200	Principles of Political Science	Social & Behavioral Sciences
Political Science	201	The National Government	Social & Behavioral Sciences
Political Science	202	Urban Government & Politics	Social & Behavioral Sciences
Political Science	203	Comparative Government	Social & Behavioral Sciences
Political Science	204	International Relations	Social & Behavioral Sciences
Political Science	205	Public Administration	Social & Behavioral Sciences
Political Science	206	American Foreign Policy	Social & Behavioral Sciences
Political Science	207	U.S. State & Local Government	Social & Behavioral Sciences
Political Science	211	Analysis Of White Racism	Social & Behavioral Sciences
Political Science	215	Politics Of Community Organization	Social & Behavioral Sciences
Psychology	201	General Psychology	Social & Behavioral Sciences
Psychology	203	The Psychology of Women	Social & Behavioral Sciences
Psychology	205	Applied Psychology	Social & Behavioral Sciences
Psychology	206	Business & Industrial Psychology	Social & Behavioral Sciences
Psychology	207	Child Psychology	Social & Behavioral Sciences
Psychology	208	Psychology of Exceptional Children	Social & Behavioral Sciences
Psychology	209	Black Psychology	Social & Behavioral Sciences
Psychology	211	Social Psychology	Social & Behavioral Sciences
Psychology	214	Adolescent Psychology	Social & Behavioral Sciences
Psychology	222	Adult Development And Aging	Social & Behavioral Sciences
Psychology	224	Life Span Developmental Psychology	Social & Behavioral Sciences
Social Science	101	General Course I Social Science	Social & Behavioral Sciences
Social Science	102	General Course II Social Science	Social & Behavioral Sciences
Social Science	105	American Social Issues	Social & Behavioral Sciences
Social Science	106	North & South American Social Development	Social & Behavioral Sciences
Social Science	221	Black Economics	Social & Behavioral Sciences
Sociology	110	Religion And Society	Social & Behavioral Sciences
Sociology	201	Intro To the Study Of Society	Social & Behavioral Sciences
Sociology	202	Sociology Of Urban Life	Social & Behavioral Sciences
Sociology	203	Marriage And The Family	Social & Behavioral Sciences
Sociology	205	Social Problems	Social & Behavioral Sciences
Sociology	207	The Sociology Of Sex & Gender	Social & Behavioral Sciences
Sociology	209	The Black Man In The U S	Social & Behavioral Sciences
Sociology	211	Race & Ethnic Relations	Social & Behavioral Sciences
Sociology	241	Institutional Racism	Social & Behavioral Sciences
Sociology	280	Human Relations	Social & Behavioral Sciences
Spanish	104	Fourth Course Spanish	Humanities
Spanish	111	Spanish For Hispanos	Humanities
Spanish	113	Spanish For Near Native Speakers I	Humanities
Spanish	114	Spanish for Near-Native Speakers II	Humanities
Spanish	191	Survival Spanish Nursing	Humanities

SUBJECT	#	TITLE	CATEGORY
Spanish	206	Intensive Oral Practice Spanish	Humanities
Spanish	210	Modern Civilization & Culture Spanish	Humanities
Spanish	213	Intro To Modern Literature Spanish	Humanities
Spanish	214	Readings In Literature Spanish	Humanities
Speech	101	Fundamentals of Speech Communication	Communications
Speech	131	Introduction To The Theater	Fine Arts
Theater Art	131	Intro To Theater	Fine Arts
Theater Art	134	Theater Diversity in the U.S.	Fine Arts
Zoology	211	General Zoology	Life Sciences

The below chart lists every course currently approved at City Colleges of Chicago that meets the Illinois Articulation Initiative (IAI). Please note that some courses have different IAI numbers at different colleges, and therefore, are double-listed in the chart.

While CCC tries to maintain the below information to the best of its abilities, it is subject to change. To view the most current listing of IAI courses approved at City Colleges, please visit the individual pages for [GECC courses](#) and [Major courses at iTransfer.org](#).

IAI GECC COURSES

SUBJECT	#	COURSE TITLE	IAI CODE	DA	KK	MX	OH	TR	HW	WR
AFRO AM	101	Introduction to African-American Studies	HF 906D		X	X	X		X	
ANTHRO	201	Intro to Biological and Cultural Evolutions of Humans	S1 902	X	X	X		X	X	X
ANTHRO	202	Cultural Anthropology	S1 901N	X	X	X	X	X	X	X
ART	103	Art Appreciation	F2 900	X	X	X	X	X	X	X
ASTROMY	201	Descriptive Astronomy	P1 906	X		X		X	X	X
BIOLOGY	107	Nutrition-Consumer Education	L1 904			X				
BIOLOGY	109	Human Genetics & Evolution	L1 907						X	
BIOLOGY	114	General Education Biology	L1 900L	X	X	X	X	X	X	X
BIOLOGY	115	Human Biology	L1 904L	X	X	X	X	X	X	X
BIOLOGY	116	Introduction to Anatomy And Physiology	L1 904L			X				
BIOLOGY	119	Environmental Biology	L1 905L				X	X		X
BIOLOGY	242	Evolution	L1 907							
BOTANY	201	General Botany I	L1 901L							X
CHEM	121	Basic Chemistry I	P1 902L	X	X	X	X	X	X	X
CHEM	201	General Chemistry I	P1 902L	X	X	X	X	X	X	X
CHINESE	104	Chinese IV	H1 900			X				
CMMEDIA	163	Film Rhetoric	F2 905					X		
ECON	201	Principles Of Economics I	S3 901	X	X	X	X	X	X	X
ECON	202	Principles Of Economics II	S3 902	X	X	X	X	X	X	X
ENGLISH	101	Composition	C1 900	X	X	X	X	X	X	X
ENGLISH	102	Composition	C1 901R	X	X	X	X	X	X	X
ENGR	215	Electrical Circuit Analysis	EGR 931L							
ENVR ST	101	Man & Environment I	L1 905					X		
ENVR TC	107	Environmental Geology	P1 908							X
FIN ART	104	The World Of The Cinema	F2 908			X		X	X	X
FIN ART	105	History of Painting, Sculpture & Architecture	F2 900	X				X	X	
FIN ART	107	History of Architecture, Painting & Sculpture I	F2 901	X	X			X	X	X
FIN ART	108	Hist Of Arch Paint Sculp II	F2 902	X	X		X	X	X	X
FIN ART	109	History Of Cinema	F2 909						X	X
FIN ART	110	Opera And The Humanities	F1 910					X	X	
FIN ART	111	History of Photography	F2 904							X
FIN ART	112	Dance Appreciation	F1 906						X	
FRENCH	104	Fourth Course French	H1 900					X	X	X
FRENCH	213	Intro To Modern Literature French	H3 916						X	X

SUBJECT	#	COURSE TITLE	IAI CODE	DA	KK	MX	OH	TR	HW	WR
FRENCH	214	Readings In Literature French	H3 916					X	X	
GEOG	101	World Geography	S4 900N	X	X	X		X	X	X
GEOG	102	Economic Geography	S4 903N		X				X	X
GEOG	201	Physical Geography	P1 909	X					X	X
GEOLOGY	201	Physical Geology	P1 907L	X		X		X	X	
HISTORY	111	History of American People To 1865	S2 900	X	X	X	X	X	X	X
HISTORY	112	History of American People From 1865	S2 901	X	X	X	X	X	X	X
HISTORY	141	History of World Civilization to 1500	S2 912N	X	X	X	X	X	X	X
HISTORY	142	Hist World Civiliz Frm 1500	S2 913N	X	X	X	X	X	X	X
HISTORY	215	History of Latin America	S2 920N	X	X		X	X	X	X
HISTORY	225	Modern Middle East History	S2 919N						X	X
HISTORY	243	The Far East in the Modern World	S2 920N		X			X	X	X
HISTORY	247	African History to Colonial Period	S2 920N	X			X	X	X	X
HISTORY	248	African History - Modern Period	S2 920N		X				X	
HUM	123	Intro To Arts & Ideas	HF 900	X					X	X
HUM	143	Intro to Latin American/Latino Studies	HF 906D						X	X
HUM	144	Introduction to Women's and Gender Studies	HF 907D						X	X
HUM	145	Intro to Diversity/Ethnic Studies	HF 906D						X	X
HUM	146	Gay, Lesbian, Bisexual & Transgendered	HF 907D					X		
HUM	201	General Course I Humanities	HF 900	X	X	X	X	X	X	X
HUM	202	General Course II Humanities	HF 901	X	X	X	X	X	X	X
HUM	203	Arts of Contemporary America	HF 900						X	
HUM	205	World Literature I	H3 906	X	X	X	X	X	X	X
HUM	207	The Great Books	H3 907	X	X	X			X	X
HUM	208	Women In Creative-Performing Arts	HF 907D						X	X
HUM	210	Comparative Mythology	H9 901		X	X		X	X	X
HUM	212	Non-Western Humanities	HF 904N		X	X		X	X	X
HUM	213	Hispano - American Arts & Literature I	HF 900							X
HUM	214	Hispano - American Arts & Literature II	HF 901							X
HUM	215	The Art and Philosophy of the African Continent	HF 904N				X		X	
ITALIAN	104	Fourth Course Italian	H1 900						X	
JAPANES	104	Fourth Course Japanese	H1 900						X	
LIT	110	Introduction To Literature	H3 900	X	X	X	X	X	X	X
LIT	111	Poetry	H3 903	X	X	X	X	X	X	X
LIT	112	Drama	H3 902	X	X	X	X	X	X	X
LIT	113	Fiction	H3 901	X	X	X	X	X	X	X
LIT	114	Ideas In Prose	H3 904	X	X	X				
LIT	115	Great Books Seminar/Topics Literature	H3 907							X
LIT	116	American Literature from Colonial Days to Civil War	H3 914		X				X	X
LIT	117	American Literature from the Civil War to the 20th Century	H3 915	X	X			X	X	X
LIT	118	English Literature from its Beginnings to the Age of Johnson	H3 912						X	X

SUBJECT	#	COURSE TITLE	IAI CODE	DA	KK	MX	OH	TR	HW	WR
LIT	119	English Literature from the Romantic Revival to the 20th Century	H3 913		X				X	X
LIT	121	Contemporary African American Literature	H3 910D		X	X	X	X	X	X
LIT	122	Perspectives in Black Literature	H3 910D		X	X			X	
LIT	123	Literature of the U.S. from the Civil War to the Present	H3 915				X			
LIT	126	Contemporary American Literature	H3 915			X			X	X
LIT	127	Contemporary British Literature	H3 913							X
LIT	128	Latin American Literature	H3 908N	X		X		X	X	X
LIT	129	U.S. Latino (a) Literature	H3 910D	X					X	X
LIT	130	Children's Literature	H3 918						X	
LIT	131	Survey Of Afro-American Poetry	H3 910D						X	
LIT	132	Native American Literature	H3 910D						X	
LIT	137	The Black Woman In Black Fiction	H3 911D		X					
LIT	150	Women's Literature	H3 911D	X	X	X	X	X	X	X
LIT	153	Gay and Lesbian Literature	H3 911D							X
LIT	155	Literature and Film	F2 905					X	X	
LIT	156	Creative Non-fiction	H3 904							X
LIT	211	Shakespeare	H3 905	X	X			X	X	X
LIT	220	World Literature	H3 906	X						
MATH	118	General Education Math	M1 904	X	X	X	X	X	X	X
MATH	122	Math For Elementary Teachers II	M1 903	X	X	X	X	X	X	X
MATH	144	Finite Mathematics	M1 906	X	X	X		X	X	X
MATH	146	Discrete Mathematics	M1 905	X				X	X	X
MATH	207	Calculus & Analytic Geometry I	M1 900-1	X	X	X	X	X	X	X
MATH	208	Calculus & Analytic Geometry II	M1 900-2	X	X	X	X	X	X	X
MATH	209	Calculus & Analytic Geometry III	M1 900-3	X	X	X	X	X	X	X
MATH	125	Introductory Statistics	M1 902	X	X	X	X	X	X	
MATH	204	Calculus For Business & Social Sciences	M1 900-B	X	X	X	X	X	X	X
MATH	204-2	Calculus For Business & Social Sciences	M1 900-B	X	X	X	X	X	X	X
MUSIC	121	Introduction To Music	F1 900	X	X	X	X	X	X	X
MUSIC	124	Trends In Mod Amer Music	F1 904			X		X	X	
MUSIC	183	World Music	F1 903N			X		X	X	X
MUSIC	221	Music Literature & History	F1 901						X	X
OCEAN	101	Intro To Oceanography	P1 905					X		
PHIL	105	Logic	H4 906	X	X	X	X	X	X	X
PHIL	106	Introduction To Philosophy	H4 900	X	X	X	X	X	X	X
PHIL	107	Ethics	H4 904	X	X	X	X	X	X	X
PHIL	108	Philosophy Of Religion	H4 905	X	X	X	X	X	X	X
PHIL	110	Social/Political Philosophy	H4 907						X	X
PHIL	201	Greek Philo To Renaissance	H4 901						X	
PHIL	202	Enlightenment To Present	H4 902						X	
PHIL	215	Problems In Philosophy	H4 900					X		

SUBJECT	#	COURSE TITLE	IAI CODE	DA	KK	MX	OH	TR	HW	WR
PHIL	216	Critical Thinking	H4 906	X						
PHY SCI	101	General Course Physical Science	P1 905						X	
PHY SCI	101	General Course Physical Science	P9 900	X	X	X		X		X
PHY SCI	102	General Course Physical Science	P9 900	X				X		X
PHY SCI	107	Current Public Issues in Physical Science	P9 900				X	X	X	
PHY SCI	111	General Course I Physical Science	P9 900L		X	X	X	X	X	X
PHY SCI	112	General Course II Physical Science	P9 900L		X	X	X	X	X	X
PHYSICS	215	Statics	EGR 942							
PHYSICS	216	Dynamics	EGR 943							
PHYSICS	217	Mechanics Of Materials	EGR 945							
PHYSICS	220	Physics Calculations & Practice	P1 900L					X		
PHYSICS	221	Mechanics, Waves, and Heat	P1 900L	X	X	X	X	X	X	X
PHYSICS	231	General Physics I: Mechanics & Wave Motion	P1 900		X					
PHYSICS	231	General Physics I: Mechanics & Wave Motion	P1 900L					X		
PHYSICS	235	Engineering Physics I: Mechanics & Wave Motion	P2 900L						X	
POL SCI	200	Principles of Political Science	S5 903	X						
POL SCI	201	The National Government	S5 900	X	X	X	X	X	X	X
POL SCI	203	Comparative Government	S5 905	X	X					X
POL SCI	204	International Relations	S5 904	X	X			X	X	X
POL SCI	207	U.S. State & Local Government	S5 902	X	X	X		X	X	
POLISH	104	Fourth Course Polish	H1 900							X
PSYCH	201	General Psychology	S6 900	X	X	X	X	X	X	X
PSYCH	207	Child Psychology	S6 903	X	X		X	X	X	X
PSYCH	211	Social Psychology	S8 900	X	X		X	X	X	X
PSYCH	213	Abnormal Psychology	PSY 905							
PSYCH	214	Adolescent Psychology	S6 904		X					X
PSYCH	222	Adult Development And Aging	S6 905		X			X		X
PSYCH	224	Life Span Developmental Psychology	S6 902					X	X	X
RELIGN	101	Introduction To Religion	H5 900		X	X	X	X		X
RELIGN	102	The Bible - Hebrew Old Test	H5 901		X		X	X		X
RELIGN	103	The Bible - New Testament	H5 901		X		X	X		X
RELIGN	104	Islamic Scriptures: The Qur'an	H5 901					X		X
RELIGN	106	Comparative Religion I/Eastern Religion	H5 904N	X	X			X		X
RELIGN	107	Com Rel II Western Religion	H5 904N		X			X		
SOC	201	Intro To the Study Of Society	S7 900	X	X	X	X	X	X	X
SOC	203	Marriage And The Family	S7 902	X	X	X	X	X	X	X
SOC	205	Social Problems	S7 901	X	X	X		X	X	X
SOC	207	The Sociology Of Sex & Gender	S7 904D	X					X	X
SOC	211	Race & Ethnic Relations	S7 903D					X		X
SOC	241	Institutional Racism	S7 903D				X			
SOC SCI	101	General Course I Social Science	S9 900	X	X	X	X	X	X	X
SOC SCI	102	General Course II Social Science	S9 901	X	X	X	X	X	X	X

SUBJECT	#	COURSE TITLE	IAI CODE	DA	KK	MX	OH	TR	HW	WR
SPANISH	104	Fourth Course Spanish	H1 900	X			X	X	X	X
SPANISH	111	Spanish For Hispanos	H1 900						X	
SPANISH	210	Modern Civilization & Culture Spanish	H1 900		X				X	X
SPANISH	213	Intro To Modern Literature Spanish	H3 916						X	
SPANISH	214	Readings In Literature Spanish	H3 916	X					X	X
SPEECH	131	Introduction To The Theater	F1 907							X
SPEECH	101	Fundamentals of Speech Communication	C2 900	X	X	X	X	X	X	X
THR ART	131	Intro To Theater	F1 907		X				X	
THR ART	134	Theater Diversity in the U.S.	F1 909D	X	X			X	X	X

IAI MAJOR COURES

SUBJECT	#	COURSE TITLE	IAI CODE	DA	KK	MX	OH	TR	HW	WR
ART	131	General Drawing	ART 904		X				X	X
ART	132	Advance General Drawing	ART 905		X					X
ART	144	Two Dimensional Design	ART 907							X
ART	145	Three Dimensional Design	ART 908						X	
BIOLOGY	121	Biology I	BIO 910	X	X	X	X	X	X	X
BIOLOGY	122	Biology II	BIO 910	X	X	X	X	X	X	
BUSINES	180	Fundamentals Of Accounting	BUS 903						X	
BUSINES	181	Financial Accounting	BUS 903	X	X	X	X	X	X	X
BUSINES	182	Managerial Accounting	BUS 904	X	X	X	X	X	X	X
BUSINES	236	Advertising	MC 912		X				X	
CHEM	201	General Chemistry I	CHM 911		X	X	X	X	X	X
CHEM	203	General Chemistry II	CHM 912		X	X	X	X	X	X
CHEM	205	Organic Chemistry I	CHM 913	X	X	X	X	X	X	X
CHEM	207	Organic Chemistry II	CHM 914	X	X	X	X	X	X	X
CIS	120	Intro to Microcomputers	BUS 902	X	X	X	X	X	X	X
CIS	142	C++ Object Oriented Programming I	CS 911		X		X	X	X	X
CIS	144	Java Object Oriented Programming I	CS 911	X	X	X	X	X	X	X
CIS	242	C++ Object Oriented Programming II	CS 912	X	X	X		X	X	X
CIS	244	Java Object Oriented Programming II	CS 912	X	X	X	X	X	X	X
CRM JUS	102	Administration of Criminal Justice	CRJ 901	X	X	X	X	X	X	X
CRM JUS	114	Administration of Juvenile Justice	CRJ 914	X	X		X	X	X	X
CRM JUS	155	Introduction To Corrections	CRJ 911	X				X	X	X
CRM JUS	250	Introduction To Criminology	CRJ 912	X	X			X	X	X
ENGLISH	151	News Reporting And Writing	MC 919					X	X	X
ENGLISH	152	Intro To Mass Communication	MC 911		X			X	X	X
MATH	125	Introductory Statistics	BUS 901		X	X		X	X	X
MATH	146	Discrete Mathematics	CS 915	X				X	X	X
MATH	207	Calculus & Analytic Geometry I	MTH 901	X		X	X	X		X
MATH	208	Calculus & Analytic Geometry II	MTH 902	X		X	X	X		X
MATH	209	Calculus & Analytic Geometry III	MTH 903	X		X	X	X		X
MATH	210	Differential Equations	MTH 912	X	X		X	X		X

SUBJECT	#	COURSE TITLE	IAI CODE	DA	KK	MX	OH	TR	HW	WR
MATH	212	Linear Algebra	MTH 911	X				X	X	X
MATH	216	Statistics For Business Majors	BUS 901	X	X		X	X	X	
MEDIACM	102	Announcing	MC 918		X					
MEDIACM	145	Intro To Media Communication	MC 911		X					
MEDIACM	203	Media Writing	MC 917		X					
MEDIACM	221	Radio Production I	MC 915		X					
MEDIACM	231	TV Production I	MC 916		X					
PHIL	110	Social/Political Philosophy	PLS 913							X
PHYSICS	235	Engineering Physics I: Mechanics & Wave Motion	PHY 911						X	X
PHYSICS	236	Engineering Physics II: Electricity & Magnetism	PHY 912						X	
PHYSICS	237	Engineering Physics III: Heat light and Modern Physics	PHY 913						X	
THR ART	130	Stagecraft	TA 911		X					X
THR ART	133	Acting I	TA 914			X	X	X	X	X

The below chart lists every course currently offered at City Colleges of Chicago that would fulfill the Human Diversity (HD) requirement. Please note that all HD courses do not satisfy General Education requirements.

SUBJECT	#	TITLE	GEN ED CATEGORY
Africana Studies	101	Introduction to African-American Studies	Fine Arts & Humanities
Anthropology	201	Intro to Biological and Cultural Evolutions of Humans	Social & Behavioral Sciences
Anthropology	202	Cultural Anthropology	Social & Behavioral Sciences
Anthropology	205	Applied Anthropology	Social & Behavioral Sciences
Anthropology	206	Introduction to Archaeology	Social & Behavioral Sciences
Arabic	101	Arabic for Beginners I	NOT A GE COURSE
Arabic	102	Arabic for Beginners II	NOT A GE COURSE
Arabic	103	Intermediate Arabic I	NOT A GE COURSE
Arabic	104	Intermediate Arabic II	Humanities
Art	103	Art Appreciation	Fine Arts
Biology	113	The Biology Of Women	Life Sciences
Chinese	101	Introduction to Chinese	NOT A GE COURSE
Chinese	102	Chinese II	NOT A GE COURSE
Chinese	103	Chinese III	NOT A GE COURSE
Chinese	104	Chinese IV	Humanities
Comparative Religion	106	Comparative Religion I/Eastern Religion	Humanities
Comparative Religion	107	Com Rel II Western Religion	Humanities
French	101	First Course French	NOT A GE COURSE
French	102	Second Course French	NOT A GE COURSE
French	103	Third Course French	NOT A GE COURSE
French	104	Fourth Course French	Humanities
French	210	Modern Civilization & Culture French	Humanities
French	213	Intro To Modern Literature French	Humanities
Geography	101	World Geography	Social & Behavioral Sciences
Geography	102	Economic Geography	Social & Behavioral Sciences
Health Information Technology	101	Foundations of HIT	NOT A GE COURSE
History	114	The Afro-American In American History	Social & Behavioral Sciences
History	115	Afro-American History Since 1865	Social & Behavioral Sciences
History	118	Women In American History	Social & Behavioral Sciences
History	141	History of World Civilization to 1500	Social & Behavioral Sciences
History	142	Hist World Civiliz Frm 1500	Social & Behavioral Sciences
History	212	History & Culture Of China	Social & Behavioral Sciences
History	215	History of Latin America	Social & Behavioral Sciences
History	216	History of Latin America in the U.S.	NOT A GE COURSE
History	225	Modern Middle East History	Social & Behavioral Sciences
History	243	The Far East in the Modern World	Social & Behavioral Sciences
History	247	African History to Colonial Period	Social & Behavioral Sciences
History	248	African History - Modern Period	Social & Behavioral Sciences
Humanities	141	Afro-American Arts	Humanities

SUBJECT	#	TITLE	GEN ED CATEGORY
Humanities	143	Intro to Latin American/Latino Studies	Fine Arts & Humanities
Humanities	144	Introduction to Women's and Gender Studies	Fine Arts & Humanities
Humanities	145	Intro to Diversity/Ethnic Studies	Fine Arts & Humanities
Humanities	203	Arts of Contemporary America	Fine Arts & Humanities
Humanities	205	World Literature I	Humanities
Humanities	208	Women In Creative-Performing Arts	Fine Arts & Humanities
Humanities	210	Comparative Mythology	Humanities
Humanities	212	Non-Western Humanities	Fine Arts & Humanities
Humanities	213	Hispano - American Arts & Literature I	Fine Arts & Humanities
Humanities	214	Hispano - American Arts & Literature II	Fine Arts & Humanities
Humanities	215	The Art and Philosophy of the African Continent	Fine Arts & Humanities
Italian	101	First Course Italian	NOT A GE COURSE
Italian	102	Second Course Italian	NOT A GE COURSE
Italian	103	Third Course Italian	NOT A GE COURSE
Italian	104	Fourth Course Italian	Humanities
Japanese	101	First Course Japanese	NOT A GE COURSE
Japanese	102	Second Course Japanese	NOT A GE COURSE
Japanese	103	Third Course Japanese	NOT A GE COURSE
Japanese	104	Fourth Course Japanese	Humanities
Literature	121	Contemporary African American Literature	Humanities
Literature	122	Perspectives in Black Literature	Humanities
Literature	125	Psychology in Black Literature	Humanities
Literature	128	Latin American Literature	Humanities
Literature	129	U.S. Latino (a) Literature	Humanities
Literature	131	Survey Of Afro-American Poetry	Humanities
Literature	132	Native American Literature	Humanities
Literature	133	African American Fiction	Humanities
Literature	137	The Black Woman In Black Fiction	Humanities
Literature	150	Women's Literature	Humanities
Literature	153	Gay and Lesbian Literature	Humanities
Mortuary Science	203	Funeral Directing	NOT A GE COURSE
Music	183	World Music	Fine Arts
Music	200	Black Music Workshop	NOT A GE COURSE
Nursing	203	Nursing Leadership	NOT A GE COURSE
Physical Therapist Assistant	110	Introduction to Physical Therapy	NOT A GE COURSE
Polish	101	First Course Polish	NOT A GE COURSE
Polish	102	Second Course Polish	NOT A GE COURSE
Polish	103	Third Course Polish	NOT A GE COURSE
Polish	104	Fourth Course Polish	Humanities
Political Science	204	International Relations	Social & Behavioral Sciences
Political Science	206	American Foreign Policy	Social & Behavioral Sciences
Political Science	211	Analysis Of White Racism	Social & Behavioral Sciences
Psychology	209	Black Psychology	Social & Behavioral Sciences

SUBJECT	#	TITLE	GEN ED CATEGORY
Psychology	211	Social Psychology	Social & Behavioral Sciences
Social Science	110	Introduction to Global Studies	NOT A GE COURSE
Social Science	221	Black Economics	Social & Behavioral Sciences
Social Service	204	Cross-Culture Studies In Gerontology	NOT A GE COURSE
Sociology	201	Intro To the Study Of Society	Social & Behavioral Sciences
Sociology	207	The Sociology Of Sex & Gender	Social & Behavioral Sciences
Sociology	209	The Black Man In The U S	Social & Behavioral Sciences
Sociology	210	Diverse Cultures/Global Age	NOT A GE COURSE
Sociology	211	Race & Ethnic Relations	Social & Behavioral Sciences
Sociology	241	Institutional Racism	Social & Behavioral Sciences
Sociology	280	Human Relations	Social & Behavioral Sciences
Spanish	101	First Course Spanish	NOT A GE COURSE
Spanish	102	Second Course Spanish	NOT A GE COURSE
Spanish	103	Third Course Spanish	NOT A GE COURSE
Spanish	104	Fourth Course Spanish	Humanities
Spanish	111	Spanish For Hispanos	Humanities
Spanish	113	Spanish For Near Native Speakers I	Humanities
Spanish	114	Spanish for Near-Native Speakers II	Humanities
Spanish	191	Survival Spanish Nursing	Humanities
Spanish	206	Intensive Oral Practice Spanish	Humanities
Spanish	210	Modern Civilization & Culture Spanish	Humanities
Spanish	213	Intro To Modern Literature Spanish	Humanities
Spanish	214	Readings In Literature Spanish	Humanities
Theater Art	134	Theater Diversity in the U.S.	Fine Arts

KEY	DA Richard J. Daley College	KK Kennedy-King College	MX Malcolm X College	OH Olive-Harvey College	TR Harry S Truman College	HW Harold Washington College	WR Wilbur Wright College
	IAI Course is approved at one or more colleges for the Illinois Articulation Agreement (IAI).	GE Course satisfies a General Education (GE) requirement based on the category listed and program requirements.	HD Course Course satisfies the Human Diversity (HD) requirement for degree programs.		College Code Indicates where the course is approved to be offered. Refer to the semester credit schedules for course availability.		

AFRICANA STUDIES (0117)

Africana Studies 101

Introduction to African-American Studies

Survey of African-American Studies from an interdisciplinary perspective; team-taught course utilizing expertise of African-American Studies staff, embraces five basic categories of the African-American Studies program. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH HW

IAI: HF 906D GE: Fine Arts & Humanities HD Course

Africana Studies 214

Hip Hop: Culture and Politics

The political significance, globalization and history of Hip-Hop will be examined. Four of the multitude of musical permutations of American Hip-Hop (Rap, consciousness/social awareness, gangsta rap and commercial hip-hop) and their relative/potential impact will be outlined. The materials/social culture that has come to be associated with Hip-Hop will be the primary focus. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (English 101 and AFRO AM 101).

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH

AIR CONDITIONING (0094)

Air Conditioning 101

Intro Air Conditioning I

Fundamentals of heat and measurement; intensity, quantity and modes of flow; factors of comfort studied and explored in relation to design of a system in connection with function of that system. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Air Conditioning 102

Intro Air Conditioning II

Refrigeration, its theory, systems, components, and control as applied to air conditioning; study of refrigeration equipment, including function, selection, proper installation, maintenance, and service. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Air Conditioning 103

Duct Design And Layout

Conventional low velocity duct design; high velocity air distribution design and systems using sophisticated design techniques; layout techniques. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (AIR CON 101 and AIR CON 102) or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Air Conditioning 104

Equipment and Systems Controls

Pneumatic, electric, and electronic controls and control systems; selection and design of control systems. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Air Conditioning 105

Owner-Contractor Management

Fundamentals of management techniques for air conditioning dealers, contractors, and entrepreneurs. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Air Conditioning 106

Sheet Metal I

Fabrication and installation of ducts used in air conditioning, ventilation and heating systems. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Air Conditioning 107

Welding I

Techniques of welding and cutting different metals under a variety of conditions. Students will learn to weld, butt, edge, lap and fillet joints. Oxy-acetylene, oxy-propane and carbon arc methods are employed. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Air Conditioning 120 Introductory Laboratory

Shop and laboratory safety, use of hand tools for air conditioning, refrigeration and heating, use of meters, instruments and gauges. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: KK

Air Conditioning 121 Advanced Laboratory

Covers meters, instruments, and troubleshooting. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: KK

Air Conditioning 150 Intro To Refrigeration

Servicing, installation, reinstallation, warranty, and troubleshooting of home and commercial refrigeration systems. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Air Conditioning 151 Commercial Refrigeration

Selection, maintenance, installation of commercial refrigeration. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Air Conditioning 150.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Air Conditioning 155 Refrigeration Laboratory

Gauges, meters, and troubleshooting. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: KK

Air Conditioning 156 Domestic Refrigeration Laboratory

Domestic and hermetic servicing. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: KK

Air Conditioning 157 Analysis Laboratory

Analysis of domestic and commercial hermetic systems, mechanical and electrical servicing. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: KK

Air Conditioning 158 Commercial Refrigeration Laboratory

Installation of components and complete systems, service and maintenance of those components and systems. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: KK

Air Conditioning 160 Intro to Principles of Heating

Warm air systems, hot water systems, steam systems, gas fuel, oil fuel, and coal fuel at both residential and commercial levels; control systems and their installation, maintenance, service and sub-electrical systems and their service. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Air Conditioning 165 Heating Laboratory

General study of domestic and commercial systems. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: KK

Air Conditioning 204 Advanced Control Systems

Theory, maintenance and repair of advanced electrical, mechanical and electronic controls and control systems. Design techniques of control systems explored. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Air Conditioning 104.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

ANTHROPOLOGY (0081)

Anthropology 201

Intro to Biological and Cultural Evolutions of Humans

Survey and analysis of the fundamentals of prehistoric archaeology, fossil primates and primate evolution, primate behavior, human genetics, and the variations of human populations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX TR HW WR

IAI: S1 902 GE: Social & Behavioral Sciences HD Course

Anthropology 202 Cultural Anthropology

Comparative study of human societies and cultures of the world; cross-cultural investigation of social organization and political, economic, religious, and family systems. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: S1 901N GE: Social & Behavioral Sciences HD Course

Anthropology 205 Applied Anthropology

This course explores the application of anthropological concepts, perspectives, techniques, and information to understanding and dealing with contemporary issues. Discusses the relevance of anthropology to such practical concerns as health care, business, and community development, and illustrates the versatility of its uses in numerous career fields. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

GE: Social & Behavioral Sciences HD Course

Anthropology 206 Introduction to Archaeology

Introduces the study of past cultures through their material remains. Explores strategies for locating archaeological remains; techniques of excavation; conservation procedures; and methods for analysis and interpretation of these materials. Examines major prehistoric cultures of the world and their patterns of change and development. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101, OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

GE: Social & Behavioral Sciences HD Course

Anthropology 210 North American Archaeology

Prehistoric cultural evolution in North America, including the first arrival of people, distribution, beginnings of settled life and formation of political-religious states; prehistory of Eastern and Western United States and Eastern, Central and Southern Mexico until arrival of Europeans. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA

GE: Social & Behavioral Sciences

ARABIC (0144)

Arabic 101 Arabic for Beginners I

Introduction to Arabic language with emphasis on language of everyday conversation. Focus is on alphabet, vocabulary and structure needed for elementary speaking, listening, and reading. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096, or Consent of Department Chairperson.

4 Lecture Hours. 4 Credit Hours.

Offered at: DA TR WR

HD Course

Arabic 102 Arabic for Beginners II

Introduction to Arabic language with emphasis on language of everyday conversation. Focus is on alphabet, vocabulary and structure needed for elementary speaking, listening, reading, and translating. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Arabic 101, ACTFL Arabic Writing Proficiency Test (Score 2.00), Placement Test, or Consent of Department Chairperson.

4 Lecture Hours. 4 Credit Hours.

Offered at: DA OH TR WR

HD Course

Arabic 103 Intermediate Arabic I

Introduction to Arabic language with emphasis on language of everyday conversation. Focus is on the alphabet, vocabulary and structure needed for elementary speaking, listening, reading and translating. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Arabic 102, Placement Test or Consent of Department Chairperson.

4 Lecture Hours. 4 Credit Hours.

Offered at: DA OH TR WR

HD Course

Arabic 104 Intermediate Arabic II

Introduction to Arabic language with emphasis on language of everyday conversation. Focus is on alphabet, vocabulary and structure needed for elementary speaking, listening, reading and translating. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Arabic 103, Placement Test or Consent of Department Chairperson

4 Lecture Hours. 4 Credit Hours.

Offered at: DA OH TR WR

GE: Humanities HD Course

ARCHITECTURE (0005)

Architecture 104 History Of Architecture I

The study of the development of early architecture through the mid-18th century. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK TR HW WR

Architecture 105 History Of Architecture II

The study of architecture since the mid-18th century. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK TR HW WR

Architecture 110 Architectural Sketching

Introduction to the observational sketching of architectural subjects. Writing assignments, as appropriate to the discipline, are part of the course.

4 Lab Hours. 2 Credit Hours.

Offered at: HW WR

Architecture 121 Basic Design Studio

Introduction to visual and organizational design principles for the generation of spatial and formal ideas. Use of graphic techniques and physical modeling for representation. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 96 or consent of Department Chairperson.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: HW WR

Architecture 122 Intermediate Design Studio

Continuation of ARCHITC 121. Emphasis on the design and articulation of space and its representation. Introduction to spatial concepts of perception and order. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ARCHITC 110 and ARCHITC 121, or consent of Department Chairperson.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: HW WR

Architecture 123 Advanced Design Studio

Continuation of Architecture 122. Emphasis on architectural analysis and design process. Integration of analog and digital tools and media. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ARCHITC 122 and ARCHITC 171, or consent of Department Chairperson.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: HW WR

Architecture 166 Architectural Design I

Examination of criteria influencing residential design: program, context, municipal regulations, dimensional standards, and anthropomorphic data. Introduction to typologies, organizational strategies and precedents for architectural problem solving. Application of the skills of visual communication and design methodologies. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better or concurrent enrollment in ARCHITC 122, and Grade of C or better or concurrent enrollment in ARCHITC 171, or consent of Department Chairperson.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: HW WR

Architecture 170 Digital Lab I

Introduction to the methods of generation and representation of spatial and formal ideas. Use of software applications and a range of output methods. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 96 or consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: HW WR

Architecture 171 Digital Lab II

Three-Dimensional modeling and rendering of spatial and formal constructs using software applications appropriate to the discipline. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ARCHITC 170 OR Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: HW WR

Architecture 172 Digital Lab III

Introduction to the assembly of construction drawings for architectural projects. Use of software applications, as appropriate to the discipline. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ARCHITC 170 OR Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: HW WR

Architecture 173 Architecture-CAD with Third Party Applications

Introduction to third party programs used to develop architectural designs and construction documents via Computer-Aided Design (CAD). Add-on programming to the base drafting package AutoCAD. The student will have hands-on experience with automated architectural programs that streamline management of file handling and the basic command structure. Utilization of comprehensive library symbols with smart features. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ARCHITC 171 OR Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: HW WR

Architecture 174 Computer Aided Design V for Architectural Drafting

Introduction to third party programs used to develop architectural designs and construction documents via Computer-Aided Design (CAD). Add on program to the base drafting package AutoCAD. The students will have hands on experience with 3-D studio. This course will include three-dimensional modeling with complete rendering. The model will include texture of materials, various lighting schemes with shade and shadow. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ARCHITC 171 OR Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: HW WR

Architecture 202 Construction I

Study of the materials and methods of building construction. Emphasis on architecture framed in wood and light-gauge metal. Application of the skills of graphic communication through the generation of construction drawings. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better OR concurrent enrollment in ARCHITC 172 or consent of Department Chairperson.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: HW WR

Architecture 204 Construction II

Study of the materials and methods of building construction. Emphasis on architecture having assemblies of masonry, concrete and steel. Application of the skills of graphic communication through the generation of construction drawings. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ARCHITC 202, or Consent of Department Chairperson.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: HW WR

Architecture 220 Portfolio Development

Design and compilation of an architectural portfolio for employment and transfer. Preparation of materials that supplement the portfolio. Overview of interview protocols and processes. Writing assignment, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ARCHITC 123 and ARCHITC 171; and a grade of C or better or concurrent enrollment in ARCHITC 266, or consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: HW WR

Architecture 266 Architectural Design II

Continuation of Architecture 166. Emphasis on mid-size commercial and institutional building types in urban contexts. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ARCHITC 166, or Consent of Department Chairperson.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: HW WR

ART (0010)**Art 103****Art Appreciation**

Appreciation of art works taken from all cultures and periods. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: F2 900 GE: Fine Arts HD Course

Art 112**Experiences in African American Art**

Examination of the works of African American artists utilizing various art forms (crafts, paintings, drawings, sculptures, and digital art) that express the cultural and racial identity of African Americans and their artistic influence on society, with a focus on contemporary artists from the Harlem Renaissance through the present time.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH

GE: Fine Arts

Art 113**Beginning Digital Photography**

This course in digital photography introduces creating, manipulating, and producing images in a technologically based environment. Writing assignments, as appropriate to the discipline, are part of this course.

6 Lab Hours. 3 Credit Hours.

Offered at: OH TR HW WR

Art 114**Appreciation Of Photography**

Topics from the history and technical development of photography from its invention to the present. Influence of other arts and sciences. May include darkroom work. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

Art 115**Photography**

Basic principles of black and white photography. 35 mm cameras, exposure, development and printing processes, composition and presentation. Writing assignments, as appropriate to the discipline, are part of the course.

6 Lab Hours. 3 Credit Hours.

Offered at: DA OH TR HW WR

Art 116**Advanced Photography**

Advanced techniques in development and printing. Introduction to other formats. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Art 115, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA OH TR HW

Art 117**Beginning Color Photography**

Introduction to techniques, art and theory of color photography; printing from color negatives and/or transparencies, developing color negatives and/or transparencies; characteristics of different color film types, lighting for color photography; covers color theory and use of color in composition. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (Art 115 and 116), OR Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA TR HW

Art 126**Printmaking I**

Processes of lithography and relief printmaking; includes line, shape, texture, value and color in stone lithography, wood, linoleum printmaking. Writing assignments, as appropriate to the discipline, are part of the course.

6 Lab Hours. 3 Credit Hours.

Offered at: HW

Art 127**Printmaking II**

Processes of intaglio, dry point and screen printmaking, includes line, shape, texture, value and color in printmaking process. Writing assignments, as appropriate to the discipline, are part of the course.

6 Lab Hours. 3 Credit Hours.

Offered at: HW WR

Art 130**African-American Art**

Survey of African-American art over last 150 years; covers African-American crafts and sculpture during 19th Century; realistic painters of early 20th Century; cubistic and abstractionist influences on painting and sculpture; non-revolutionary artists such as Charles White, Henry O. Tanner, Aaron Douglas and Hughie Lee-Smith. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA MX OH

Art 131**General Drawing**

Still-life, landscape and human figure; experimentation with various media. Writing assignments, as appropriate to the discipline, are part of the course.

6 Lab Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: ART 904

Art 132**Advance General Drawing**

This course builds on and refines the experiences of general drawing focusing on a variety of color media. Emphasis is on invention and formal concerns. Explorations into abstraction, non-objective, and fabricated image making are covered in this class. Course includes vocabulary development, critical analysis activities, and reference to historic models of drawing. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ART 131.

6 Lab Hours. 3 Credit Hours.

Offered at: DA KK OH TR HW WR

IAI: ART 905

Art 141**Intro To The Visual Arts**

Practical application of fundamentals of visual arts. Includes study of line, texture, color, shape and volume in various media. Recommended for pre-teachers. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: OH TR

Art 141 Intro To The Visual Arts

Practical application of fundamentals of visual arts. Includes study of line, texture, color, shape and volume in various media. Recommended for pre-teachers. Writing assignments, as appropriate to the discipline, are part of the course.

6 Lab Hours. 3 Credit Hours.

Offered at: HW

Art 142 Figure Draw & Composition

Study of the human figure in action and still poses; rapid sketching, long poses, memory work, and portraiture. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ART 131.

6 Lab Hours. 3 Credit Hours.

Offered at: DA OH TR HW WR

Art 143 Advanced Figure Drawing

Development of skills. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ART 142.

6 Lab Hours. 3 Credit Hours.

Offered at: DA OH TR HW WR

Art 144 Two Dimensional Design

A studio course exploring the fundamentals of the formal systems and basic elements of visual organization through two-dimensional design principles and theories using a variety of media. Fundamental design and experimentation in relationships of line, shape, textures, and color. Writing assignments, as appropriate to the discipline, are part of the course.

6 Lab Hours. 3 Credit Hours.

Offered at: DA KK OH TR HW WR

IAI: ART 907

Art 145 Three Dimensional Design

Study of the fundamentals of the formal systems and basic elements of visual organization through three-dimensional design principles and theories; use of a variety of media, including recent and traditional materials, such as clay and plaster. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Art 144, or Consent of Department Chairperson.

6 Lab Hours. 3 Credit Hours.

Offered at: DA OH TR HW WR

IAI: ART 908

Art 150 Crafts Workshop

Creation and construction of art forms in clay, metal, cloth, fibers, plaster and wood; art process in both two and three dimensions; recommended for pre-teachers. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: TR WR

Art 161 Freehand Drawing

Elementary drawing in charcoal and pencil from simple groups of block forms, still life and architectural ornament; includes developing pencil technique. No previous drawing experience necessary. Writing assignments, as appropriate to the discipline, are part of the course.

6 Lab Hours. 3 Credit Hours.

Offered at: DA KK TR

Art 162 Architectural Representations

Continuation of Art 161. Experimentation with water colors and their use in rendering of architectural representation of building materials, textures and nature; includes exterior and interior perspectives. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (Art 141 and Art 161), or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: TR

Art 163 Water Color Painting

Elementary painting and sketching including still life, landscape and figure painting. Writing assignments, as appropriate to the discipline, are part of the course.

6 Lab Hours. 3 Credit Hours.

Offered at: KK TR WR

Art 166 Oil Painting Techniques

A studio course that serves as an introduction to basic painting techniques and color principles applied to the exploration of oil and acrylic painting media. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Art 131, or Consent of Department Chairperson.

6 Lab Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Art 167 Advanced Oil Painting Techniques

Advanced techniques and experimentation in use of materials and the development of creative styles in oil painting. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Art 166, or Consent of Department Chairperson.

6 Lab Hours. 3 Credit Hours.

Offered at: DA KK OH TR HW WR

Art 172 Communications Design I

Design application and merchandising of products and ideas; theory of design of form and function applied to products, brochures, packaging, display, and other commercial designs; application of design in television, newspapers, magazines, billboards, and posters for advertising industry. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Art 144, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: OH WR

Art 176 Graphics Design I

Creative approach to graphics, using traditional and modern media, such as drawing, painting, photography, constructed and sculptured art; includes reproduction of illustrations relating to advertising, periodical and book publishing. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Art 144, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: OH HW

Art 177**Graphics Design II**

Continuation of Art 176. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ART 176.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: OH

Art 196**Ceramics**

Ceramics formed by coil, slab or free form methods. Writing assignments, as appropriate to the discipline, are part of the course.

6 Lab Hours. 3 Credit Hours.

Offered at: DA KK OH TR HW

Art 197**Advanced Ceramics & Sculpture**

Advanced work in pottery and sculpture, use of molds and various materials, individual experiments in pottery and sculpture. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Art 196, or Consent of Department Chairperson.

6 Lab Hours. 3 Credit Hours.

Offered at: OH TR HW

Art 198**Sculpture I**

The creation of sculpture using the formal systems and elements of visual organization in a study of materials and processes; this is done using a variety of tools and media, including but not limited to contemporary and traditional materials. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better or concurrent enrollment in Art 145 with consent of Department Chairperson.

6 Lab Hours. 3 Credit Hours.

Offered at: HW WR

Art 200**Individual Art Projects**

For advanced students who have completed beginning level studies in the corresponding discipline specific course, or an equivalent course at another institution, or who can demonstrate proficiency through portfolio review in the skills taught in the corresponding 100 level course. Work is completed on an independent project, the subject of which is designed through dialogue between the student and instructor. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated six credit hours will be counted towards graduation.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA KK OH TR HW WR

Art 272**Communications Design II**

Story boards for television commercials, graphics design for television, and development and making of television commercials. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Art 172, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA WR

Art 275**Computer Art And Applications**

An introduction and exploration of electronic imaging through hands-on experience of applications in computer graphics. A variety of software packages pertaining to art will be utilized, as well as input and output devices. The goal of the course is to

begin to develop imaging skills in graphics systems. Students will also be introduced to computer concepts of design, color, image importing and exporting, image manipulation, and sequencing techniques. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Art 144, Art 131, Art 115 or Consent of Department Chairperson.

6 Lab Hours. 3 Credit Hours.

Offered at: DA OH TR WR

Art 200-8**Art Projects: Advanced Ceramics**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 or Grade of C or better in ART 197, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA OH TR HW WR

Art 200-9**Art Projects: Computer Art/Application**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 or Grade of C or better in ART 275, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA OH TR HW WR

Art 200-A**Art Projects: Photography**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 or Grade of C or better in ART 115, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA OH TR HW WR

Art 200-B**Art Projects: Advanced Photography**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 Grade of C or better in ART 116, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA OH TR HW WR

Art 200-C**Art Projects: Color Photography**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 or Grade of C or better in ART 117, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA OH TR HW WR

Art 200-D**Art Projects: Printmaking I**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Prerequisite(s): Eligibility for English 101 or Grade of C or better in ART 126, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA OH TR HW WR

Art 200-E**Art Projects: Printmaking II**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Prerequisite(s): Eligibility for English 101 or Grade of C or better in ART 127, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA OH TR HW WR

Art 200-F**Art Projects: General Drawing**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Prerequisite(s): Eligibility for English 101 or Grade of C or better in ART 131, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA OH TR HW WR

Art 200-G**Art Projects: Advanced Drawing**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Prerequisite(s): Eligibility for English 101 or Grade of C or better in ART 132, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA OH TR HW WR

Art 200-H**Art Projects: Painting I**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Prerequisite(s): Eligibility for English 101 or Grade of C or better in ART 134, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA OH TR HW WR

Art 200-I**Art Projects: Painting II**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Prerequisite(s): Eligibility for English 101 or Grade of C or better in ART 135, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA OH TR HW WR

Art 200-J**Art Projects: Painting III**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Prerequisite(s): Eligibility for English 101 or Grade of C or better in ART 136, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA OH TR HW WR

Art 200-K**Art Projects: Intro Visual Arts**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Prerequisite(s): Eligibility for English 101 or Grade of C or better in ART 141, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA OH TR HW

Art 200-L**Art Projects: Figure Drawing**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Prerequisite(s): Eligibility for English 101 or Grade of C or better in ART 142, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA OH TR HW WR

Art 200-M**Art Projects: Adv Figure Drawing**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Prerequisite(s): Eligibility for English 101 or Grade of C or better in ART 143, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA OH TR HW WR

Art 200-N**Art Projects: Two Dimensional Design**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Prerequisite(s): Eligibility for English 101 or Grade of C or better in ART 144, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA MX OH TR HW WR

Art 200-O**Art Projects: Three Dimensional Design**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Prerequisite(s): Eligibility for English 101 or Grade of C or better in ART 145, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA OH TR HW WR

Art 200-P**Art Projects: Crafts Workshop**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Prerequisite(s): Eligibility for English 101 or Grade of C or better in ART 150, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA OH TR HW WR

Art 200-Q**Art Projects: Freehand Drawing**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Prerequisite(s): Eligibility for English 101 or Grade of C or better in ART 161, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA OH TR HW

Art 200-R**Art Projects: Architectural Rep**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Prerequisite(s): Eligibility for English 101 or Grade of C or better in ART 162, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA OH TR HW

Art 200-S**Art Projects: Watercolor Paintng**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Prerequisite(s): Eligibility for English 101 or Grade of C or better in ART 163, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA OH TR HW WR

Art 200-T**Art Projects: Oil Painting**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Prerequisite(s): Eligibility for English 101 or Grade of C or better in ART 166, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA OH TR HW WR

Art 200-U**Art Projects: Advanced Oil Painting**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Prerequisite(s): Eligibility for English 101 or Grade of C or better in ART 167, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA OH TR HW WR

Art 200-V**Art Projects: Communication Design I**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Prerequisite(s): Eligibility for English 101 or Grade of C or better in ART 172, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA OH TR HW WR

Art 200-W**Art Projects: Advanced Com Art**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Prerequisite(s): Eligibility for English 101 or Grade of C or better in ART 174, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA OH TR HW WR

Art 200-X**Art Projects: Graphic Design I**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Prerequisite(s): Eligibility for English 101 or Grade of C or better in ART 176, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA OH TR HW WR

Art 200-Y**Art Projects: Graphic Design II**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Prerequisite(s): Eligibility for English 101 or Grade of C or better in ART 177, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA OH TR HW WR

Art 200-Z**Art Projects: Ceramics**

For advanced students who have taken all or most other art courses. Work on individual projects. Hours scheduled at convenience of student and instructor. Writing assignments, as appropriate to the discipline. are part of the course.

Prerequisite(s): Eligibility for English 101 or Grade of C or better in ART 196, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA OH TR HW WR

ASTRONOMY (0071)**Astronomy 201****Descriptive Astronomy**

Descriptive survey of major astronomical facts, concepts, and relationships, starting with the solar system and extending to stars, galaxies, and cosmogonies. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA MX TR HW WR

IAI: P1 906 GE: Physical Sciences

AUTOMOTIVE TECHNOLOGY (0105)

Automotive Technology 101

Intro To Automotive Techn

Lecture and laboratory course covering the operating principles of the modern automobile. Subjects will include Preventive maintenance of the cooling system service, fuel system, tires and wheels, lubrication system and accessories. Course will include career exploration and automotive academics. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

2 Lecture Hours. 6 Lab Hours. 4 Credit Hours.

Offered at: KK OH TR

Automotive Technology 102

Introduction to Collision Technology

This course includes students to technical skills and competencies in the workplace for entry-level positions. In addition to technical training, students develop interpersonal and problem-solving skills that are required in the dynamic workplace of today. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 6 Lab Hours. 4 Credit Hours.

Offered at: KK

Automotive Technology 103

Engine Concepts

Disassembly, inspection and service of automotive engines with major emphasis on operational diagnostic and service. students gain skills based on industry standards to perform precise diagnostics to solve operational issues related to the automotive engine. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better OR Concurrent enrollment in AUTOTEC 101 OR Consent of Department Chairperson.

2 Lecture Hours. 6 Lab Hours. 4 Credit Hours.

Offered at: KK OH TR

Automotive Technology 104

Electrical Systems & Power Accessories

Introduction to theory, diagnosis, and repair of automotive electrical and electronic components and systems. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better OR Concurrent enrollment in AUTOTEC 101 OR Consent of Department Chairperson.

2 Lecture Hours. 6 Lab Hours. 4 Credit Hours.

Offered at: KK OH TR

Automotive Technology 105

Fuel Management 1

Service techniques and theories of operations necessary to maintain modern fuel delivery systems. Service will be performed on modern fuel injection systems. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (AUTOTEC 103 or AUTOTEC104), or Consent of Department Chairperson.

2 Lecture Hours. 6 Lab Hours. 4 Credit Hours.

Offered at: KK OH

Automotive Technology 106

Fuel Systems

This further study of the fuel system provides students with an opportunity to acquire knowledge of the construction, operating principles and components of automotive fuel systems. Students perform service on carburetors as well as fuel injection systems in accordance with established industry standards. Writing assignments, as appropriate of the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (AUTOTEC 101 and AUTOTEC 104).

2 Lecture Hours. 9 Lab Hours. 5 Credit Hours.

Offered at: KK OH TR

Automotive Technology 107

Automotive Body Welding

Students will acquire knowledge and skills using MIG, TIG and spot welding equipment before welding operations in repairing damaged auto bodies. Proficiencies will be developed in butt and lap welding on light-gauge metal. Course will include replacement of body panels using adhesive techniques. All work performed must be in accordance with established collision industry standards. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 6 Lab Hours. 4 Credit Hours.

Offered at: KK

Automotive Technology 108

Work Based Learning I

Introduction to applied automotive technology in an actual work setting. Provides hands-on experience in an automotive shop. Students work on actual vehicles, carrying jobs from assignment through completion. Business operators will supervise students at the worksite. Instructors will supervise all on-campus work, and also visit off-campus worksites to observe, monitor, and critique student performance. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 20 Lab Hours. 3 - 6 Credit Hours.

Offered at: KK OH TR

Automotive Technology 109

Automotive Brakes

Theory of operation and servicing of braking systems, both conventional and computerized anti-lock brake systems. Emphasis on diagnostic procedures; inspection techniques and service. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better OR Concurrent enrollment in AUTOTEC 101 OR Consent of Department Chairperson.

2 Lecture Hours. 6 Lab Hours. 4 Credit Hours.

Offered at: KK OH TR

Automotive Technology 111

Auto Parts Specialist I

Lecture and Laboratory course covering the principles of selling automotive parts in retail and wholesale parts establishments. Subjects will include: customer relations, parts identification and usage, stockings control, products knowledge, telephone ethics, selling skills, and cataloging. Writing assignments, as appropriate to the discipline are part of the course.

3 Lecture Hours. 9 Lab Hours. 6 Credit Hours.

Offered at: KK

Automotive Technology 112

Auto Parts Specialist II

Lecture and Laboratory course covering skills necessary to manage an automotive parts retail store. Subjects will include customer relations, building team staff, inventory control, corporate relationships, conflict resolution, and business analysis. Writing assignment, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in AUTOTEC 111.

2 Lecture Hours. 6 Lab Hours. 4 Credit Hours.

Offered at: KK

Automotive Technology 117**Auto Body Reconstruction I**

Study of the principles and techniques of auto body sheet metal connections, use and care of basic tools, types and application of fillers, analysis of the extent of damage, and performance required repair operations. Students develop skills in repairing and/or removing and replacing damaged body panels. Emphasis is placed on developing proficiency in repairing body damage according to establish collision industry standards. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in AUTOTEC 107, or Consent of Department Chairperson.

1 Lecture Hour. 6 Lab Hours. 3 Credit Hours.

Offered at: KK

Automotive Technology 118**Auto Body Repainting I**

Students will execute the techniques of preparing body surfaces, selecting and mixing paint, and spraying. Refinishing techniques will be performed on individual panels until each student demonstrates competency to refinish a live vehicle. Course will also emphasize recognizing and performing repair techniques for damage paint finishes in accordance with collision industry standards. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 6 Lab Hours. 3 Credit Hours.

Offered at: KK

Automotive Technology 119**Automotive Body Detailing**

Study of the principles of auto body detailing for post collision repaired vehicles and new and used car customer delivery service. Students will develop skills in selection and use of proper cleaning and polishing materials, proper buffing and polishing techniques, preparation of plastic bumpers and accessories, steam cleaning of engine components and care of rubber parts and interior cleaning. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 9 Lab Hours. 5 Credit Hours.

Offered at: KK

Automotive Technology 121**Structural Analysis and Damage Repair I**

The development of skills in roughing and shaping procedures on automotive metal to make satisfactory minor body repairs. The emphasis is on the alignment of component parts such as doors, hoods, front-end assemblies and deck lids. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in AUTOTEC 102, 117, 217 OR Consent of Department Chairperson.

2 Lecture Hours. 6 Lab Hours. 4 Credit Hours.

Offered at: KK

Automotive Technology 122**Structural Analysis and Damage Repair II**

Development of skills in manual and computer alignment with roughing and shaping procedures on automotive metal necessary to make satisfactory major body and unibody frame repairs. The emphasis is on the alignment of structural component parts such as, front-end assemblies, frame sections and body reconstruction. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in AUTOTEC 102, 117, 121, 217 OR Consent of Department Chairperson.

2 Lecture Hours. 6 Lab Hours. 4 Credit Hours.

Offered at: KK

Automotive Technology 130**Topics in Alternative Fuel Technology**

This course will introduce the student to special topics in alternative fuel vehicles and all related technology. Additionally, the course will provide the knowledge base needed to understand alternative fuel vehicles, green technology, and their effect on the current and future of the world. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in AUTOTEC 101,104,105,204,205 AND 206; OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH

Automotive Technology 204**Electrical Systems II**

This course is designed to provide the necessary knowledge and skills to service today's automotive electrical systems. Selected topics include the reading of wiring diagrams, diagnosing electrical accessories, and operating and designing ignition systems. Students learn circuit testing on today's modern multiplex and CAN/BUS system protocol. Course will emphasize proper handling of advanced solid-state electronics such as air bags and computers. Writing assignments as appropriate to the discipline are part of the course.

Prerequisite(s): Grade of C or better in (AUTOTEC 101 or AUTOTEC 104), or Consent of Department Chairperson.

2 Lecture Hours. 6 Lab Hours. 4 Credit Hours.

Offered at: KK OH TR

Automotive Technology 205**Fuel Management II**

Emphasis on servicing of computerized engine and body controlled modules. Emphasis on service techniques for OBD II foreign and domestic computer control system. Students will gain skills in the use and interpretation of data related to modern diagnostic test equipment. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in AUTOTEC 105.

2 Lecture Hours. 6 Lab Hours. 4 Credit Hours.

Offered at: KK OH

Automotive Technology 206**Fuel Management III**

This course builds upon the knowledge gained in previous fuel management courses with emphasis on diagnosis and repairs to sensors and actuators that control engine performance. Students will gain advanced diagnostic skills to interpret waveform patterns through the use of laboratory scopes. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in AUTOTEC 205.

2 Lecture Hours. 6 Lab Hours. 4 Credit Hours.

Offered at: KK OH

Automotive Technology 207**Transmission Transaxle & Dr**

This course will cover three, four, and five speed manual transmissions/ transaxles and all automotive transmissions/transaxles used on front wheel drive passenger cars. Diagnosis and repair procedures will be covered in detail. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (AUTOTEC 101 AND AUTOTEC 212).

2 Lecture Hours. 6 Lab Hours. 4 Credit Hours.

Offered at: KK OH TR

Automotive Technology 208**Work Based Learning II**

Advanced hands-on experience in an automotive shop. Students work on actual vehicles, carrying jobs from assignment through completion. Business operators will supervise students at the worksite. Instructors will supervise all on-campus work based learning students, and also visit off-campus worksites to observe, monitor, and critique student performance. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 20 Lab Hours. 3 - 6 Credit Hours.

Offered at: KK

Automotive Technology 209 Steering & Suspension Systems

Theory of operation in servicing of suspension systems both rear and front wheel drive systems. Students gain skills in the use of computerized four-wheel alignment equipment, servicing McPherson struts, shock absorbers, rack and pinion and conventional steering systems. Diagnosis and service of Tire Monitoring Systems (TMS) is now part of the course. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better OR Concurrent enrollment in AUTOTEC 101 OR Consent of Department Chairperson.

2 Lecture Hours. 6 Lab Hours. 4 Credit Hours.

Offered at: KK OH TR

Automotive Technology 210 Performance & Driveability

This course covers the construction, operations and testing of the ignition systems. Training is offered on the use of oscilloscopes, infrared gas analyzers, and other diagnostic equipment such as scan tool testing. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (AUTOTEC 101, AUTOTEC 104, AUTOTEC 106 AND AUTOTEC 204).

2 Lecture Hours. 9 Lab Hours. 5 Credit Hours.

Offered at: KK OH TR

Automotive Technology 211 Auto Service Management

Instruction in management skills related to inventory control, writing estimates and repair orders, billing, employee relations, time management, vendor relation, business financials and customer relations. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 6 Lab Hours. 4 Credit Hours.

Offered at: KK OH

Automotive Technology 212 Manual Drive Train & Axles

Upon successful completion of this course students will demonstrate understanding of design, construction, operation and the service principles of automotive clutches, manual transmissions, drivelines, differentials, and rear axles. Service work includes using appropriate repair and test equipment, determining problems or extent of damage, and performing corrective work in accordance with established industry standards. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better OR Concurrent enrollment in AUTOTEC 101 OR Consent of Department Chairperson.

2 Lecture Hours. 6 Lab Hours. 4 Credit Hours.

Offered at: KK OH TR

Automotive Technology 215 AutoTemperature Control Systems

Service procedures and theory of operation of both manual and electronically controlled heating and air conditioning systems. Emphasis will be on diagnosis, service, and replacement of air conditioning components. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 6 Lab Hours. 4 Credit Hours.

Offered at: KK OH TR

Automotive Technology 217 Auto Body Reconstruction II

Students will increase their knowledge and skills by repairing more complex, extensive damages. Removal and installation of trim, body panels, welding, aligning various body components of the body, repairing of body hardware and accessories. Repairing or replacement of mechanical components as required for complete reconstruction of the vehicle is emphasized in this course. Students will utilize estimating skills to estimate the extent of damaged, repair time and cost of repairs and repair strategies. All work will be performed in accordance with established

collision industry standards. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in AUTOTEC 117.

1 Lecture Hour. 6 Lab Hours. 3 Credit Hours.

Offered at: KK

Automotive Technology 218 Auto Body Repainting II

Students will build on their refinishing skills learned in Automotive Technology 118 course. Advanced refinishing techniques are emphasized through practical application of auto body refinishing techniques on live vehicles as well as panels. As refinishing skills increase in proficiency students will acquire skills to perform color matching to refinish weathered finishes and localized panel damage repairs. Students will be evaluated on their ability to complete refinishing assignments in accordance with industry standards. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in AUTOTEC 118.

1 Lecture Hour. 6 Lab Hours. 3 Credit Hours.

Offered at: KK

Automotive Technology 220 Collision Estimating

Estimating for automotive insurance claims and adjusting damages. Emphasis will be on appraisal procedures, flat rate computations, use of collision estimator and preparation of insurance claim forms. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 6 Lab Hours. 4 Credit Hours.

Offered at: KK

Automotive Technology 223 Auto Body Repainting III

This course introduces students to the theory and application of color in custom automotive paint jobs. Topics include color analysis, paint mixing and tint matching. Students may also receive instruction in primer choice and application, clear coat finishing and the equipment used to apply primer, paint and finisher. Instruction also covers refinishing techniques, such as the use of waterborne acrylic materials, color blending paint repair work and troubleshooting common auto painting problems. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in AUTOTEC 102, 118, 218 OR Consent of Department Chairperson.

1 Lecture Hour. 6 Lab Hours. 3 Credit Hours.

Offered at: KK

Automotive Technology 230 Introduction to Alternative Fuel Technology

This course will introduce the student to the theories and service techniques of alternative fuel vehicles in today's society. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in AUTOTEC 101,104,105,204,205, and 206; OR Consent of Department Chairperson.

2 Lecture Hours. 6 Lab Hours. 4 Credit Hours.

Offered at: KK OH

Automotive Technology 231 AFT Hybrid Fuel Vehicles

This course builds upon the knowledge gained in the previous alternative fuel courses with an emphasis on theories and servicing techniques of hybrids and fuel-cell vehicles. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in AUTOTEC 101,104,105,204,205 AND 206; OR Consent of Department Chairperson.

2 Lecture Hours. 6 Lab Hours. 4 Credit Hours.

Offered at: KK OH

Automotive Technology 232**Hybrid and Fuel Cell Vehicles**

In this course, students will learn about alternative fuel technologies, apply advanced service techniques, and experiment with electric, hybrids, fuel-cell and other alternative energy source vehicles. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in AUTOTEC 101, 104, 105, 204, 205 AND 206; OR Consent of Department Chairperson.

2 Lecture Hours. 9 Lab Hours. 5 Credit Hours.

Offered at: KK OH

BAKING & PASTRY (0330)**Baking & Pastry 765****Introduction to Baking**

The focus of this course will be an introduction to culinary history with emphasis on baking and pastry; instruction in principles and procedures of basic equipment and its use and beginning fundamentals of baking. A look at the contemporary employment options in this field will compare restaurant, specialty (e.g., wedding cakes), retail and wholesale careers. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096 and Mathematics 098; concurrent enrollment in 330BKPS 766, 767, 768, and 769.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Baking & Pastry 766**Baking Safety and Sanitation**

An introduction to safe food production practices. Topics will include prevention of food-borne illness, HACCP procedures, facility sanitation, legal guidelines, kitchen safety, and safe food preparation, storing, and reheating guidelines. The National Restaurant Association ServSafe examination will be a part of this course. Students who pass the exam will receive the ServSafe certification. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096 and Mathematics 098; concurrent enrollment in 330BKPS 765, 767, 768, and 769.

2 Lecture Hours. 2 Credit Hours.

Offered at: KK

Baking & Pastry 767**Baking Techniques**

This course provides an introduction to the functions of baking ingredients (flour, sugar, fat, eggs and liquids) and mixing methods for doughs, fermentation techniques, and bread baking. Special emphasis will be placed on lean dough production and enriched dough methods (laminating, rubbing, and cut-in). Training in evaluation techniques of finished products will be emphasized. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096 and Mathematics 098; concurrent enrollment in 330BKPS 765, 766, 768, and 769.

1 Lecture Hour. 6 Lab Hours. 3 Credit Hours.

Offered at: KK

Baking & Pastry 768**Pastry Techniques**

An introduction to pastry products and methods, this course will include lamination, short crust, liaison, meringue, pastry cream, pate a choux, vanilla sauce, ganache, custard and mousse. Assembling the various components into completed pastries will include filling, glazing, garnishing and making a variety of sauces. Students will learn to evaluate the quality of the items that are produced. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096 and Mathematics 098; concurrent enrollment in 330BKPS 765, 766, 767, and 769.

1 Lecture Hour. 6 Lab Hours. 3 Credit Hours.

Offered at: KK

Baking & Pastry 769**Cookies and Tarts**

An introduction to a variety of mixing methods, doughs, batters, fillings and glazes with emphasis on preparing unfilled and filled cookies, mignardises, tarts, a variety of petit fours and other one bite items. Emphasis will be on production and will include specialty preparations, like gingerbread houses. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096 and Mathematics 098; concurrent enrollment in 330BKPS 765, 766, 767, and 768.

1 Lecture Hour. 6 Lab Hours. 3 Credit Hours.

Offered at: KK

Baking & Pastry 770**Basic and Classical Cakes**

With emphasis on the different mixing and assembly methods, the students will prepare a variety of classical cakes from simple pound cakes to elaborate filled cakes and tortes. Classical preparations will include Sacher Torte, Dobos Torte, Opera Torte, Marjolaine, Gateaux St. Honore, and Charlottes. Piping skills will be introduced and practiced. Writing assignments, as appropriate to the discipline,

Prerequisite(s): Grade of C or better in 330BKPS 767, 768 and 769; concurrent enrollment in 330BKPS 771, 772, and 773.

1 Lecture Hour. 6 Lab Hours. 3 Credit Hours.

Offered at: KK

Baking & Pastry 771**Special Occasions Cakes**

Decorating techniques will be practiced, including flowers and borders, royal icing, fondant draping, crimping and ruffling and gum paste flowers. Students will prepare special occasion cakes, seasonal cakes, and classical and contemporary wedding cakes. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 330BKPS 767, 768 and 769; concurrent enrollment in 330BKPS 770, 772, and 773.

1 Lecture Hour. 6 Lab Hours. 3 Credit Hours.

Offered at: KK

Baking & Pastry 772**Individual Pastries**

Quantity production will be a key element of this course. From scaling recipes and calculating yields to working a pastry station, each student will be exposed to volume production for pastry buffet tables and retail operations. Emphasis will include presentation and plate designs for banquet desserts. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 330BKPS 767, 768 and 769; concurrent enrollment in 330BKPS 770, 771, and 773.

1 Lecture Hour. 6 Lab Hours. 3 Credit Hours.

Offered at: KK

Baking & Pastry 773**Confectionary Arts**

Display pieces are an important art in the pastry chef's repertoire. This course will serve as an introduction to chocolate, sugar, marzipan, finishing techniques, molds and templates. Each student will create a centerpiece utilizing the skills learned. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 330BKPS 767, 768 and 769; concurrent enrollment in 330BKPS 770, 771, and 772.

1 Lecture Hour. 6 Lab Hours. 3 Credit Hours.

Offered at: KK

Baking & Pastry 774 Hearth Breads and Rolls

Learn to mix, shape, bake and store bread and rolls. Emphasis will be on efficiency and increased speed in production of quality products. Students will use traditional fermentation methods, equipment, and methods to emphasize flavor, texture, and appearance as well as techniques that increase shelf life. Students will learn to evaluate the quality of the items that are produced. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 330BKPS 767, 768 and 769; concurrent enrollment in 330BKPS 775 and 776

1 Lecture Hour. 9 Lab Hours. 4 Credit Hours.

Offered at: KK

Baking & Pastry 775 Specialty Breads

This course will introduce advanced bread principles and techniques, including regional and ethnic breads. Production will include multi-grain breads, sourdoughs, bagels, pretzels, holiday or seasonal breads, and flat breads. Special emphasis will be placed on mixing, shaping, and finishing specialty breads; and innovative baking methods. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 330BKPS 767, 768 and 769; concurrent enrollment in 330BKPS 774 and 776.

1 Lecture Hour. 9 Lab Hours. 4 Credit Hours.

Offered at: KK

Baking & Pastry 776 Advanced Baking Principles

We live in a world where many people have special dietary needs. This course examines baking methods and principles from a nutritional and chemical/physical point of view. Topics to be covered include: diets such as vegan, diabetic, low carb and gluten-free, nutritional analyses, and preparation of items for persons with special dietary needs. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 330BKPS 767, 768 and 769; concurrent enrollment in 330BKPS 774 and 775.

1 Lecture Hour. 6 Lab Hours. 3 Credit Hours.

Offered at: KK

Baking & Pastry 777 Chocolate and Confections

This course introduces the student to the tempering of chocolate, creation of chocolate sculptures and simple centerpieces, and production of chocolates and other confections including fudge, fondant, nougat, caramel, toffee and truffles. Emphasis will be on creating confections by hand and with special equipment. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 330BKPS 767, 768, 769, 773, and 776; concurrent enrollment in 330BKPS 778.

1 Lecture Hour. 6 Lab Hours. 3 Credit Hours.

Offered at: KK

Baking & Pastry 778 Contemporary Desserts

Assembled and decorated with a modern approach, desserts will be produced using the latest technology and equipment. Students will use specialized equipment, practice new presentation methods, and focus on freshness, simplicity of style, and ease of production. Each student will produce a plated dessert and centerpiece using a variety of the techniques learned throughout the program and showing key elements of production, design, freshness of flavor and consistency. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 330BKPS 767, 768, 769, 773, and 776; concurrent enrollment in 330BKPS 777.

1 Lecture Hour. 15 Lab Hours. 6 Credit Hours.

Offered at: KK

BIOLOGY (0023)

Biology 100 Critical Readings In Biology

Prepares students to read in the life sciences. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

Biology 101 General Course Biology I

Basic principles and concepts of biology; general considerations of biological processes, including cellular and organismic levels. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK TR

Biology 102 General Course Biology II

Continuation of Biology 101. Basic principles and concepts of biology, including how organisms reproduce and inherit; how life on earth evolved and how present day organisms relate to each other. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Biology 101, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Biology 103 Biology Of Human Sexuality

Structure and function in human sexuality; sexuality related to physical, mental, and emotional health; the relationships between sexual behavior and human ecology, population, gene frequencies, and society. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA

Biology 107 Nutrition-Consumer Education

Science of food as it relates to health, including food composition and utilization, food preparation and preservation, nutrition, special diets, fad foods, and foods of the future; social and political aspects of food in the world's future. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW

IAI: L1 904 GE: Life Sciences

Biology 109 Human Genetics & Evolution

Basis of inheritance; analysis of human pedigrees; sex-linkage; physical and behavioral aspects of human evolution. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

IAI: L1 907 GE: Life Sciences

Biology 110 Human Ecology

Effects of dense population, effect of humans on air, minerals, water, noise; and how these affect humans. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Biology 113**The Biology Of Women**

A comprehensive look at the human female throughout her entire life span. Deals with Biological sex differentiation, fetal development and reproductive anatomy. Explains events of a woman's reproductive life from menarche to menopause, sexuality, birth control, infertility, and pregnancy. Discusses sexually transmitted diseases, gynecological problems, breast cancer, controversial treatments and health care. Examines sociological and cultural health factors that influence a woman's nutrition, physical activity, use of cosmetics, use and abuse of drugs. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH TR HW

GE: Life Sciences HD Course

Biology 114**General Education Biology**

A laboratory course emphasizing scientific inquiry through selected concepts of biology, such as organization, function heredity, evolution, and ecology. Biological issues with personal and social implications will be introduced to enable students to make informed decisions. This course is equivalent to the Illinois Articulation Initiatives General Education generic course numbered L1900L. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: L1 900L GE: Life Sciences

Biology 115**Human Biology**

Examines practical aspects of selected concepts in biology and their application to technology. Concepts may include heredity, growth, development, health, and ecology. Human systems may be studied as they relate to the major topics. Emphasis will be placed on the relationship of the issues to the individual and society. This course is equivalent to the Illinois Articulation Initiative's General Education generic course numbered L1904L. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: L1 904L GE: Life Sciences

Biology 116**Introduction to Anatomy And Physiology**

An introduction to human structure and function, from cellular structures to organ systems, with emphasis on scientific processes and common laboratory techniques. Writing assignments, appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101, or successfully completing Biology 120 with a grade of "C" or higher, or consent of Department Chairperson.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: MX OH

IAI: L1 904L GE: Life Sciences

Biology 119**Environmental Biology**

This general education laboratory course is geared for both environmental science majors as well as non-science majors. The environment and human impacts on natural resources, pollution, and ecosystems are emphasized. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: OH TR WR

IAI: L1 905L GE: Life Sciences

Biology 120**Terminology For Medical Careers**

Basic medical vocabulary for allied health professionals and others with minimal background in anatomy and physiology; includes study of the human body systems. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Biology 121**Biology I**

Cellular and Molecular Biology. Introduction to biochemistry, molecular genetics, cell structure, function and processes. Laboratory required. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

4 Lecture Hours. 2 Lab Hours. 5 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: BIO 910 GE: Life Sciences

Biology 122**Biology II**

Continuation of Biology 121. Organismal biology, ecology, and evolution. An introduction to structure and function of major groups of microorganisms, fungi, animals, and plants. Emphasis on evolutionary relationships and ecological principles. Laboratory required. Writing assignments, as appropriate to the discipline, are part of the course. Biology majors intending on transferring to a four-year institution must complete both Biology 121 and 122 with a grade of C or better.

Prerequisite(s): Grade of C or better in Biology 121, or Consent of Department Chairperson.

4 Lecture Hours. 2 Lab Hours. 5 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: BIO 910 GE: Life Sciences

Biology 130**Human Cadaver Anatomy I**

Student-directed learning experiences designed to enhance histology and human cadaver competence. Includes osteology, articulations. Skeletal muscles, and neurology. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Biology 226.

0.5 Lecture Hours. 1 Lab Hour. 1 Credit Hour.

Offered at: MX

Biology 131**Human Cadaver Anatomy II**

Continuation of Biology 130. Directed learning experiences are designed to enhance histology and human cadaver competence. Primarily stresses the following areas: cardiovascular, thoracic and abdominal cavity systems. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (Biology 226 and Biology 227), or Consent of Department Chairperson.

0.5 Lecture Hours. 1 Lab Hour. 1 Credit Hour.

Offered at: MX

Biology 200**Field Biology**

Natural history of local biota. Laboratory and field identification of plants and animals with a study of their habitats and relationships. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

2 Lecture Hours. 3 Lab Hours. 3 Credit Hours.

Offered at: KK TR WR

Biology 201**Individual Topics in Biology**

Students may conduct laboratory research, engage in a library project, and attend seminars. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: No more than 2 credit hours counted toward graduation.

1 Lecture Hours. 0.5 Lab Hours. 1 Credit Hour.

Offered at: KK TR HW WR

Biology 205**Pathophysiology**

This course introduces the students to pathophysiology, which is the systematic study of the functional changes in cells, tissues, and organs altered by disease and/or injury. Students will also be introduced to the molecular and cellular basis of disease. Background in Anatomy and Physiology (Biology 226 and 227) is highly recommended for this course. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Biology 120, 121, OR Biology 115 and English 100.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA

Biology 209**Biochemistry**

Biochemistry is designed to give the student in life sciences, allied health fields, and biotechnology a basic understanding of the biological processes at the molecular, cellular and organismic level. An emphasis is placed on the use of laboratory tools and equipment in order to familiarize the student with current biochemical techniques. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Biology 121, Chemistry 205, and Chemistry 207, or Consent of Department Chairperson.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: MX TR HW

Biology 210**Survey Of Biotechnology**

This course will serve to introduce students to modern biotechnology which is based on recent developments in molecular biology, especially those in genetic engineering and bioengineering. Students will explore the diversity of the field focusing on such areas as medicine, biohazard, bioremediation, biocatalysis, biosafety, agriculture, forensics, quality control and assurance, testing, regulation, law and policy, intellectual property, proteomics, pharmacogenomics, nutrition, and product development. This course will incorporate speakers that are representative of specific areas in biotechnology. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in BIOLOGY 121 and CHEM 121.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: HW

Biology 226**Human Structure and Function I**

Human anatomy and physiology. This laboratory course is recommended for those contemplating a career in the health professions and emphasizes the structure and function of the human body. Microscopic and gross anatomy are correlated with

physiology. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Biology 121.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Biology 227**Human Structure and Function II**

Continuation of Biology 226. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Biology 226, or Consent of Department Chairperson.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Biology 236**Environmental Biology II**

This course is a continuation of Biology 119. Environmental sampling and analysis techniques will be taught in the laboratory. Topics such as environmental toxicology, bioremediation, genetic contamination of plant species, conservation biology, and environmental law, policy and ethics may be covered in the lecture. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: OH

Biology 240**Vertebrate Embryology**

Introduction to the major morphogenetic events in vertebrate development, including development of gametes, fertilization, and the development of organ systems. Special attention will be paid to human development, developmental anomalies, and teratogens. Laboratory required. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in BIOLOGY 226, or consent of department chairperson.

4 Lecture Hours. 2 Lab Hours. 5 Credit Hours.

Offered at: MX

Biology 241**Genetics**

Principles of heredity, structure of genetic material, mechanism of transmission, and the role of genetics in evolution. Application of these principles to human and other organisms is included. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (Biology 101 and Biology 102), or (Biology 114 and Biology 115), or Consent of Department Chairperson.

2 Lecture Hours. 4 Lab Hours. 3 - 4 Credit Hours.

Offered at: DA

Biology 242**Evolution**

Origin, history and development of plants and animals. Includes evidence from anatomy, paleontology, comparative physiology, biochemistry, immunology, and genetics. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (Biology 101 and Biology 102), or (Biology 114 and Biology 115), or Consent of Department Chairperson.

3 Lecture Hours. 2 - 3 Credit Hours.

Offered at: DA KK

IAI: L1 907

Biology 250 Intro To Molecular Biology

The first course in a three-part series in the biotechnology program/plan 215. This course stresses an introduction to current concepts and progress in modern molecular biology with emphasis on DNA science and genetic engineering as it applies to molecular, cellular and organismic biology. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated six credit hours will be counted toward graduation.

Prerequisite(s): Grade of C or better in Biology 121, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK TR HW

Biology 251 Molecular Biology I

The second course in a three-part series in the biotechnology program/plan 215. The course stresses the theory and practice of separation techniques and safety procedures that would be employed in the purification and assay of such biomolecules as nucleic acids, proteins and other related substances and the relationship of these molecules to living organisms. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Biology 250, or Consent of Department Chairperson.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: TR HW

Biology 252 Molecular Biology II

The third course in a three part series, stresses the theory and practice of current techniques used in DNA science, protein isolation, immunology and introduces selected biotechnology protocols. An emphasis is placed on the use of laboratory tools and equipment in order to familiarize the student with current biochemical techniques. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Biology 251, or Consent of Department Chairperson.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: TR

Biology 253 Plant Molecular Biology

This course is designed for students in the life sciences, and biotechnology to understand how plants function at the molecular level and discuss the current advances in plant molecular biology and genetic engineering. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (BIOLOGY 121 or 250), or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

Biology 299 Special Topics In Biology

Special topics in biology and biotechnology will be discussed along with appropriate lab and/or field trip activities. New developments will be emphasized, especially materials useful in K-12 education and industry. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Course may be repeated up to three times when topics are different, and may count for a maximum of six variable credits. Consent of Department Chairperson required for repeatability.

0.5 - 5 Lecture Hours. 1-2 Lab Hours. 1-6 Credit Hours.

Offered at: DA KK OH TR HW WR

General Botany I

General biological principles applied to anatomy, physiology, reproduction, and heredity of seed plants. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: DA OH TR WR

IAI: L1 901L GE: Life Sciences

BUSINESS (0030)

Business 111 Introduction To Business

Survey of modern US business, analyzing organization and types of businesses, major business functions, business and the environment, roles played by business and consumers in the economy and various economic systems. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Business 141 Business Mathematics

Review of basic arithmetic principles, application of arithmetic operations to business forms and to analysis and solution of problems of percentage, markup and markdown, discounts, interest, prorating, life and property insurance, taxation, and payrolls. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK OH TR HW WR

Business 147 Intro to Paralegal Studies

This course is the first of the required courses in the Paralegal AAS program/plan 304. It provides an overview of the American legal system. It explores essential knowledge in the paralegal field, including the basic skills, concepts, and reasoning processes for success in a paralegal career. This course explores basic paralegal roles and responsibilities and specific limitations as they relate to the legal system and the law office environment. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and Eligibility for college-level Math -OR- Math 99 with a grade of C or better -OR- consent of department chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

Business 148 Civil Litigation

This course is one of the requirements of the Paralegal AAS program/plan 304. It introduces the student to procedural concepts of the civil litigation process in state and federal courts with an emphasis on Illinois and federal civil codes. It examines the role of the paralegal from the initial phases of the pre-trial investigation and discovery through the appeals process while emphasizing legal theory and practical skills. This is a writing intensive course. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and Eligibility for college-level Math -OR- Math 99 with a grade of C or better -OR- consent of department chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

BOTANY (0025)

Botany 201

Business 149**Family Law**

This course is one of the requirements of the Paralegal AAS program/plan 304. It is an overview of the basic principles of family law and domestic relations, with an emphasis on Illinois law. It examines the areas of marital contracts, divorce, annulment, issues affecting children, and other legal matters relating to domestic relations. It also covers client interviews, the drafting of necessary pleadings and supporting documents, and the performance of basic research relating to family law and domestic relations as well as the role of the paralegal in family law. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and Eligibility for college-level Math -OR- Math 99 with a grade of C or better -OR- consent of department chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

Business 150**Legal Research and Writing I**

This course is one of the requirements of the Paralegal AAS program/plan 304. It provides an overview of the fundamentals of legal research and writing. This course covers the use of primary and secondary source materials to research legal questions. It examines different types of legal documents and provides training in legal analysis. The course also includes principles and techniques of legal writing and their application to legal correspondence and documents as well as the role of the paralegal in legal research and writing. This is a writing intensive course. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Completion of Business 147, Business 148 and English 101 with a grade of "C" or better, or consent of the Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

Business 156**Warehousing Workforce Skills**

This course provides training in the workplace practices that contribute to success on the job. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: OH

Business 158**Warehousing and Distribution Process**

This course provides learners with the knowledge and core skills associated with warehousing and distribution. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Business 155 and Business 156.

2.5 Lecture Hours. 2.5 Credit Hours.

Offered at: OH

Business 159**Warehousing Technology Skills**

Warehousing technology skills are those practices important to working in a technical environment. This course covers the use of scanners and data applications along with the understanding of industrial controls and computers and automation. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Business 155 and Business 156.

2 Lecture Hours. 2 Credit Hours.

Offered at: OH

Business 161**Prin Of Bank Operations**

This course covers the fundamentals of bank functions in a descriptive fashion. Topics include banks and the monetary system, the relationship of banks to depositors, regulations, and examinations. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

Business 180**Fundamentals Of Accounting**

This course emphasizes an understanding of basic accounting principles and other business concepts as they apply to the reporting of financial data and other economic events of a business enterprise. Emphasis is on recording, analyzing, and interpreting historical data and showing its effect on the business financially. Writing assignments, as appropriate to the discipline, the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK TR HW

IAI: BUS 903

Business 181**Financial Accounting**

This course presents accounting as an information system that produces summary financial statements, primarily for users external to a business or other enterprise. Students study the forms of business organization and the common transactions entered into by businesses. The emphasis is on understanding and applying basic accounting principles and other concepts that guide the reporting of the effect of transactions and other economic events on the financial condition and operating results of a business. How to analyze and interpret historical financial statements as well as the limitations of using these statements in making forward-looking business decisions are included. The primary content emphasis will be accounting for current assets and liabilities, long-term assets and liabilities, corporations, cash flow statements and financial statement analysis. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Business 111 or Business 141 or Mathematics 098 or higher; or concurrent enrollment in Business 141; or placement test; or Consent of Department Chairperson.

4 Lecture Hours. 4 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: BUS 903

Business 182**Managerial Accounting**

This course presents accounting as a system of producing information for use in internally managing a business. The course emphasizes the identification, accumulation and interpretation of information for planning, controlling and evaluating the performance of the separate components of a business. Included is the identification and measurement of the costs of producing goods or services and how to analyze and control these costs. Decision models commonly used in making specific short-term and long-term business decisions are included. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Business 181, OR Consent of Department Chairperson.

4 Lecture Hours. 4 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: BUS 904

Business 183**Payroll Accounting**

A comprehensive course that prepares students for the functions of payroll within an organization. Introduces principles, procedures, and terminology for business applications of payroll methods. Emphasizes federal and state payroll records and forms. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (Business 178 or 181), or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA TR HW

Business 203 Intro Cost Accounting

General accounting principles applied to factory operations. Includes methods of finding costs of specific orders, lots and processes, and basis of allocating overhead expenses. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in BUSINESS 181 OR BUSINESS 182

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK OH TR HW WR

Business 204 Computer Applications Intermediate Accounting

Utilizes a computer to perform major accounting tasks such as recording entries, posting to ledgers, generation of trial balances and financial statements, as well as special reports, all encountered in Business 205. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Concurrent enrollment in Business 205.

1 Lecture Hour. 1 Credit Hour.

Offered at: DA KK OH TR HW WR

Business 205 Intermediate Accounting

Application of funds, analysis of working capital, investments, inventories, amortization and depreciation, and cost expirations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Business 182 and concurrent enrollment in Business 204.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK OH TR HW WR

Business 206 Auditing

Includes external balance-sheet audits, recent developments in techniques of auditing cash, receivables, inventories, investments, fixed assets, and liabilities. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in BUSINESS 205 or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK OH TR HW WR

Business 207 Intermediate Accounting II

Accounting for the rights of creditors and stockholders; principles of fund accounting; statement analysis; special problems. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in BUSINESS 205 or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

Business 208 Federal Income Tax

Study of the principles of the Internal Revenue Code, practical application of tax rules to the preparation of returns, application of accounting rules to tax matters. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in BUSINESS 182 or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK OH TR HW WR

Business 211 Business Law I

Laws of business transactions, including contracts, agency, employment and partnerships, and study of the Uniform Commercial Code. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Business 212 Business Law II

Continues study of laws covering corporations, negotiable instruments, sales, real estate, and bailments. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH TR HW WR

Business 213 Data Visualization and Presentation for Business

This course provides a foundation for technologies for technologies and functions of spreadsheets, presentations, and Business Intelligence. The course introduces and expands students understanding of presentation and spreadsheet software through experimentation, critical thought, and personalization. Concepts introduced in this course aim to develop an understanding of the different types of business data, various analytical approaches, and application of these approaches to solve business problems. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

Business 214 The Legal & Social Environment of Business

A study of the legal and social environment of business with emphasis on business ethics and corporate social responsibilities. Areas of concentration include governmental regulation of business, securities law, consumer protection law, labor law and employment law. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK OH TR HW WR

Business 215 Corporate and Entity Federal Income Tax

Study of federal income taxation of business organizations, including corporations, partnerships, limited liability companies (LLC), limited liability partnerships (LLP), limited liability limited partnership (LLL), low-cost limited companies (L3C), and estates. Taxation of partnerships, with emphasis on the tax laws related to the formations, operations, allocations, distributions, liquidations, and sales/exchanges of partnership interests. Federal estates and gift tax laws with emphasis on the preparation of related tax returns. Ethics and research as appropriate to the discipline are integrated in the course. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in BUSINESS 208.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

Business 216 Entrepreneurship

Entrepreneurial skills, organization, promotion and management in self-employment or administration in occupations and organizations; research and discussions with successful owners and managers in the business community. Students receive practice in planning, decision-making and self-evaluation. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Business 217 Nonprofit Accounting

Financial transaction analysis and recording system; budget preparation and control; concepts and principles underlying the financial reports of nonprofit organizations in accordance with generally accepted accounting principles (GAAP) and Government Accounting Standards Board (GASB). Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in BUSINESS 181, and Grade of C or better OR concurrent enrollment in BUSINESS 203 OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

Business 218 **Advanced Accounting**

Financial accounting theory for business combinations, presentation of consolidated financial statements, international transactions and investments, fund accounting, foreign exchange and derivatives, investments and partnership accounting. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in BUSINESS 205 OR BUSINESS 207 OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

Business 219 **Real Estate Law for the Paralegal**

This course is one of the requirements of the Paralegal AAS program. It introduces the fundamentals of real estate law, with the emphasis on Illinois law, and provides a basic understanding of the elements of the real estate industry. The course covers real property law, categories of ownership, legal descriptions, contracts, financial aspects, and special issues in real estate law. It examines the real estate transaction from the beginning of the process to the closing. It emphasizes the drafting of legal descriptions of property, preparing closing documentation and performing a title search. It also examines the role of the paralegal in a law office, financial institution, or title company. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in BUSINESS 147 AND BUSINESS 148.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

Business 220 **Criminal Law for the Paralegal**

This course is one of the requirements of the Paralegal AAS program. It explores the Illinois and federal court systems as well as defines the categories of crime and the types of legal defenses. It introduces the concepts involved in criminal proceedings and explores the stages of criminal litigation from the arrest through post-trial procedures. It enables the student to understand all procedural aspects of criminal cases and the role of the paralegal in aiding an attorney in trial preparation, the trial itself, and post-trial procedures and appeals. This is a writing intensive course. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in BUSINESS 147 AND BUSINESS 148.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

Business 221 **Insurance**

Preparation for the agents or brokers licensing examination. Includes life and casualty insurance, automobile, fire, health and accident, and worker compensation. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA HW

Business 222 **Business Law for the Paralegal**

This course is one of the requirements of the Paralegal AAS program/plan 304. It provides the student with an in-depth analysis of the law pertaining to types of business organizations, contract formation, resolution of contract disputes and the impact of the Uniform Commercial Code on traditional contract theory. The role of a

corporate paralegal is covered as it relates to the business environment. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in BUSINESS 147 AND BUSINESS 148.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

Business 223 **Tort Law**

This course is one of the requirements of the Paralegal AAS program/plan 304. It examines the fundamental elements of tort law and the principles of tort litigation. It introduces the different categories of torts and focuses on the role of the paralegal in tort litigation from the point of view of both the plaintiff and the defendant. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Business 147 AND Business 148.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

Business 224 **Wills, Trusts and Probate**

This course is one of the requirements of the Paralegal AAS Program/plan 304. It covers both the theoretical and practical knowledge needed in the estate planning and probate processes. It covers wills, trusts, and estate administration. The course emphasizes the role of the paralegal in the drafting of estate planning documents and carrying out probate procedures. Emphasis is placed on applicable Illinois law and Federal tax laws. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Business 149, 219 and 222.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

Business 225 **Legal Research and Writing II**

This course is one of the requirements of the Paralegal AAS program/plan 304. It is a continuation of Legal Research & Writing I and provides a more in-depth, hands-on exploration of legal research, writing, and analysis. It provides additional experience in legal research, reasoning, analysis, and writing. This course continues to explore the various legal reference sources, both traditional and non-traditional. It continues to develop legal reasoning skills and strategies to analyze legal authority in case law. This is a writing intensive course. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in BUSINESS 150.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

Business 226 **Internship for the Paralegal**

This course is an elective in the Paralegal AAS program. It is designed to enable students to combine classroom training with practical paralegal work experience through supervised on-the-job training in a public or private legal setting. Periodic seminars are held to discuss experiences, concerns, and topical questions. Students are required to keep journals of their internship experience. A minimum number of hours of on-site time are required for this course. Internship placement must be approved by the Program Coordinator. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Successful completion of all other Paralegal AAS Program requirements with a grade of C or better and consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

Business 227 **Elder Law**

This course is an overview of legal issues that are increasingly relevant as the older population increases. It covers a variety of legal documents and the many legal situations which affect the elderly. It also covers topics such as asset management, estate planning, health care, personal planning and protection, resources of both

public and private agencies and organizations, and the court systems. It examines the role of the paralegal in interacting with elderly clients as well as in using the various resources available in elder law. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Business 149, 219 and 222.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

Business 228

Environmental Law for the Paralegal

This course examines the fundamental concepts of environmental law. It emphasizes both state and federal laws and regulations enacted to preserve and protect the environment. It covers the specific areas of air quality control, water quality control, toxic substance control, waste management, and hazardous releases. It also covers energy policy, natural resources, international environmental law, and current environmental issues. It focuses on the role of the paralegal in environmental law. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Business 219 and 222.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

Business 229

Immigration Law

This course provides an overview of the federal immigration system and the concepts and procedures of immigration law for the paralegal. It examines immigration law and regulations as well as practical applications in immigration law including the naturalization process, visa procedures, and the right and obligations of aliens in the United States. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Completion of Business 147 and Business 148 with a grade of C or better, or consent of the Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

Business 230

E-Business Marketing

Explores resources, knowledge, skills, practices and techniques necessary to conduct business online. Explores nature and impact of e-commerce on business and business operation, resources required and available, customer relationship management, ordering systems, end-to-end marketing and performance and control systems. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in BUSINESS 111 or CIS 120 or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK TR

Business 231

Marketing

Examines the functions and objectives of marketing. Includes flow of industrial and consumer goods through the marketing system, and the role of the consumer, the product, the market, the pricing policies, promotion and distribution methods. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Business 111.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Business 232

Fundamentals of International Business

Analysis of problems stemming from the movement of goods, services, human resources, technology, finance, and ownership across national boundaries. Direct focus on the development of management skills in handling problems of multinational business. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Business 111.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA HW

Business 236

Advertising

Study of basic functions, principles, and techniques of advertising, including the role of advertising in the marketing system. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK TR HW

IAI: MC 912

Business 237

Selling

Factors of successful selling of goods or ideas; buying motives, sales psychology, customer approach, and sales techniques. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK OH TR HW

Business 238

Legal Ethics for the Paralegal

This course is an elective in the Paralegal AAS program/plan 304. It provides the student with an overview of ethical considerations arising in the paralegal profession. This course discusses the regulation and discipline of attorneys and paralegals, issues related to confidentiality and conflicts of interest, unauthorized practice of law and other ethical issues that pertain particularly to paralegals. Students will discuss general ethical considerations and will work directly with the Illinois Rules of Professional Conduct. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (Business 147 and 148), or Consent of Department Chairperson

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

Business 239

Business Organizations & Agency Law

This course is an elective in the Paralegal AAS program/plan 304. It provides the student with an overview of the formation and operation of business enterprises, exposes the student to types of business organizations and to the law surrounding principal/agent relationships. Student will learn about sole proprietorships, general and limited partnerships, limited liability companies and corporations. The role of a corporate paralegal is covered as it relates to the benefits and disadvantages of each type of entity as well as the formation, dissolution and recordkeeping for each of these entities. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Business 222 or Consent of Department Chairperson

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

Business 240 Computers in the Law Office

This course is an elective in the Paralegal AAS program/plan 304 and can be taken in lieu of the internship requirement. A general introduction to the use of computer software programs in the modern law office. Office organization, legal terminology, fees and billing procedures, e-filing, scheduling and calendaring, preparation and maintenance of case files, preparation of law office forms, and an introduction and survey of a variety of legal specific software and legal web resources are involved in this course. Students will develop a greater appreciation for computers by learning how computers can help paralegals complete tasks and assignments. This course includes hands on computer exercise using professional software programs and web resources used in the law office by paralegals. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Business 223, or consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

Business 241 Introduction To Finance

Surveys methods of financing business enterprises and their relationships to personal and company investment policies. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Business 181, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Business 244 Personal Finance

Personal investment programs including the sources and uses of investment information. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX TR HW WR

Business 249 Independent Research

Independent Research and analysis on topic chosen with the faculty consent, requires a study plan, a paper of length and specification required by the faculty member. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Credit Hours.

Offered at: HW

Business 250 Computerized Accounting Systems

Computerized Accounting focuses on exposing the student to various computerized accounting systems and how these systems accomplish the goals of accounting information system of a business entity. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in BUSINESS 181, or CIS 120 or equivalent, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK OH TR HW WR

Business 258 Small Business

Organization and operation of small-scale retail, trading, service, or manufacturing business. Problems of location, financing, labor, accounting and production, taxes, and insurance. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK TR HW

Business 259 Introduction to Project Management

This course develops a foundation of concepts and solutions that supports the planning, scheduling, controlling, resource allocation, and performance measurement activities required for successful completion of a project. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and Grade of C or better in BUS 111

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

Business 260 Digital Marketing and Social Media

This Digital Marketing and Social media course will equip students with the knowledge to ethically and effectively utilize Digital media tools to establish a broader market presence for new and existing businesses.

Prerequisite(s): Grade of C or better in BUS 111 and BUS 231.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

Business 263 Property and Liability Insurance

A survey of modern insurance companies, analyzing different types of Insurers, major insurance functions and their impact on consumers, businesses, and worldwide financial markets. Also, the specific interaction between insurance companies, banks, businesses, consumers, the Federal government and their combined impact on the US and World economies. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Business 111

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

Business 264 Personal Insurance

A survey of personal insurance carriers which includes their product lines, day-to-day functions, an analysis of employment trends and their impact on consumers, businesses, and financial markets. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Business 111

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

Business 265 Commercial Insurance

A survey of commercial insurance carriers which includes their product lines, day-to-day functions, employment trends and their impact on businesses and financial markets. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Business 111

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

Business 269 Principles Of Management

Analysis of major functions and principles of management; emphasis on supervisory and operating levels of management; theories, policy-making, effective communications and art of decision-making. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in BUSINESS 111, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Business 270 Office Management

Application of management principles to planning, organization, and controlling of office work. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Business 271 Human Resources Management

Employment techniques, wages and hours, job evaluation, training, employee ratings, collective bargaining, employment counseling and collateral benefits, such as pensions and fringe benefits. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Business 272 Sales Management

Planning of sales efforts; management of sales and services; human resources, and controlling sales operations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in BUSINESS 111 and 237, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

Business 273 Organizational Behavior

This course examines the theories and concepts related to human behavior in organizations. Topics include individual behavior, group behavior, and organizational structure and culture. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in BUSINESS 269.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

Business 274 Industrial Management

Characteristics of industrial enterprise, problems of materials procurement, plant organization and layout; labor relations and human resources policies, efficiency techniques, automation, and production development. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA

Business 278 Compensation & Benefits Administration

This course examines the design and implementation of an organization's compensation systems. Topics include job analysis, base pay structure, incentives, and performance measurements. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in BUSINESS 269 or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

Business 279 Human Resources Planning & Staffing

This course examines the functions and objectives of human resources planning and staffing. Includes staffing models and strategies, recruitment, selection, employment and retention. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in BUSINESS 271 or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

Business 281 Corporate Organizations: Understanding Business Processes

Records management, editorial duties, correspondence and reports, and work simplification procedures. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

Business 284 Business Communications

Study of communication (including motivation, perception, language, distortions, organizations, listening) and its role in the administrative process; patterns of miscommunications (such as by-passing, deception, generalizations, association, labeling) are examined for better understanding of communication process and to improve organizational environment; consideration given to psychological impact of various communications media. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK MX OH HW

Business 291 Leadership

This course examines the process by which an individual exerts influence over other individuals and inspires, motivates, and directs their activities to help achieve group or organizational goals. Topics include power and influence, participative leadership, leadership theories, and managerial traits and skills. Writing assignments, as appropriate to the discipline are part of the course.

Prerequisite(s): Grade of C or better in BUSINESS 269 or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: OH

Business 299 Special Topics

Seminar on a special topic or current issue in one or more business fields. Topic should be listed on the student's permanent academic record. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

BUSINESS AND COMMERCIALTECHTC1 (0330)

Business and CommercialTechTC1 100 Public Passenger Vehicle Training/Taxi

This course is designed to prepare individuals to take the licensure examination required by the City of Chicago to become unrestricted public chauffeurs. The course rules and regulations governing the operations of a public chauffeur in Chicago, focuses on street law, judicial procedures, and mastery of geography through routing exercises. This course also covers cultural sensitivity and diversity, customer service, accessibility training and taxi Access Program (TAP) and safety of the passenger as well as the driver. Students must also take a four-hour Intra-City bus tour. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Student must be 21 years of age and have Illinois Driver License. If convicted of foreseeable felony, five years from the date of sentencing must have passed.

6 Lecture Hours. 6 Credit Hours.

Offered at: OH

Business and CommercialTechTC1 121 Professional Development

This course is designed to assist individuals who are interested in becoming professional Public Chauffeurs for the City of Chicago. It focuses on several key components, including current customer service trends, driver safety, the need and importance of providing exceptional customer service, and the development of a professional identity and the influence it has on maintaining a productive business. This course also offers an in-depth look at the impact and importance of incorporating diversity and cultural sensitivity practices into daily business operations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Student must be 21 years of age and have Illinois Driver License. Students must be able to read and speak English language as determined by the Reading Compass Exam.

1 Lecture Hour. 1 Credit Hour.

Offered at: OH

Business and CommercialTechTC1 122 Rules and Regulations

The purpose of this class is to inform the students of the rules and regulations that they must adhere to as taxi professionals. The students will learn the legal restrictions and positive duties, how to determine fare calculations, driver safety, and how to become a medallion holder. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Student must be 21 years of age and have Illinois Driver License. Students must be able to read and speak English language as determined by the Reading Compass Exam.

0.5 Lecture Hours. 0.5 Credit Hours.

Offered at: OH

Business and CommercialTechTC1 123 Geography

This course is designed to provide students with a clear understanding of the various roads and routes in the City of Chicago. Students will also learn map reading, how to complete routing exercises, how to safely navigate the city, popular tourist destinations, hotel locations and other points of interest in the city. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Student must be 21 years of age and have Illinois Driver License. Students must be able to read and speak English language as determined by the Reading Compass Exam.

1 Lecture Hour. 1 Credit Hour.

Offered at: OH

Business and CommercialTechTC1 124 Taxi Accessibility Program

The purpose of this course is to inform students of the guidelines of the Chicago Taxi Accessibility Program (TAP) and Mobility Direct programs, teach proper techniques and behaviors in servicing persons with disabilities, to ensure that taxi professionals know the legal rights of those with disabilities, vehicle inspection and becoming a Wheelchair Accessible Vehicle (WAV) Driver. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Student must be 21 years of age and have Illinois Driver License. Students must be able to read and speak English language as determined by the Reading Compass Exam.

0.5 Lecture Hours. 0.5 Credit Hours.

Offered at: OH

Business and CommercialTechTC1 512 Basic Keyboarding III

Development of greater control and speed; typing of short simple business letters; and word division. Writing assignments, as appropriate to the discipline, are part of the course.

12 Lab Hours. 1 - 4 Credit Hours.

Offered at: KK TR

Business and CommercialTechTC1 532 Basic Computer Technology

Course provides students with an overview of the basic computer concepts and terminology, the internet and the Microsoft Office applications. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 1 Credit Hour.

Offered at: KK

CAD TECHNOLOGY (0049)

CAD Technology 130 CAD Technology I

Application of pictorial techniques used in preparation of industrial illustrations; study of oblique, axonometric, perspective and exploded views; methods and techniques of shading, commercial media and reproduction processes. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ENGR 100 or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: TR

CAD Technology 170 CAD Technology II

Introduction to programming techniques using computer-aided design (CAD) systems; use of basic command structures, keyboard and menu tablets; text dimensioning and pen and layer selection. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ENGR 100, OR 110, OR Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: TR WR

CAD Technology 171 CAD Technology III

Intermediate programming techniques using computer-aided design (CAD) systems; techniques of file handling, archiving and plotting; drawing manipulations of translation and rotation to prepare for CAD system operation. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Architecture 170, OR CAD TEC 170, OR Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: TR WR

CAD Technology 172 CAD Technology IV

Advanced planning concepts and designs using computer-aided design systems; techniques of file handling, archiving, and plotting; drawing manipulations of translation and rotation to prepare for CAD system operation. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in CAD TEC 171, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: TR WR

CHEMISTRY (0073)**Chemistry 100****Basic Chem Calculations**

Arithmetical and algebraic operations as used in general chemical calculations, scientific notation, metric system of measurement and problem-solving techniques employed in general chemistry calculations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Concurrent enrollment in Chemistry 121, Eligibility for English 101, Eligibility for Math 118 or higher or consent of Department Chairperson.

0.5 Lecture Hours. 1 Lab Hour. 1 Credit Hour.

Offered at: MX OH TR HW

Chemistry 121**Basic Chemistry I**

Principles of general inorganic chemistry, including properties of matter, dimensional analysis, fundamentals of stoichiometry, interpretation of the periodic table, nomenclature and introduction to solution chemistry and commonly used concentration units. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and eligibility for Math 118 or higher or Consent of Department Chairperson.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: P1 902L GE: Physical Sciences

Chemistry 201**General Chemistry I**

Topics include the periodic table of the elements, atomic structure, basic concepts of quantum theory, bonding, stoichiometry of compounds and reactions, thermochemistry, the gaseous state, basic concepts of the liquid and solid states, solutions, acids, and bases. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for Mathematics 140 or higher and Grade of C or better in Chemistry 121 or one year of high school chemistry, or Consent of Department Chairperson.

4 Lecture Hours. 4 Lab Hours. 5 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: P1 902L; IAI: CHM 911 GE: Physical Sciences

Chemistry 203**General Chemistry II**

Topics include equilibrium, acid-base equilibria, solubility equilibria, kinetics, thermodynamics, electrochemistry, coordination compounds, nuclear chemistry and descriptive topics in organic chemistry. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Chemistry 201, or Consent of Department Chairperson.

4 Lecture Hours. 4 Lab Hours. 5 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: CHM 912

Chemistry 204**Quantitative Analysis**

Gravimetric, volumetric, and calorimetric procedures; basic techniques of quantitative measurement applied to the determination of percentage composition, equilibrium constants and the reliability of data. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Chemistry 203

2 Lecture Hours. 6 Lab Hours. 5 Credit Hours.

Offered at: DA

Chemistry 205**Organic Chemistry I**

Fundamentals of organic chemistry, orbital and structural theory, aliphatic and aromatic hydrocarbons, alkyl halides, structural isomerism, introduction to functional groups, nomenclature, stereochemistry, reaction mechanisms, resonance theory, and spectroscopy. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Chemistry 203 OR Consent of Department Chairperson.

4 Lecture Hours. 4 Lab Hours. 6 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: CHM 913

Chemistry 207**Organic Chemistry II**

Continuation of study of organic chemistry: alcohols, aldehydes and ketones, carboxylic acids, functional derivatives of carboxylic acids, O, N and S containing compounds, heterocyclic compounds, spectroscopy; laboratory emphasis on organic synthesis and spectroscopic analysis. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Chemistry 205, or Consent of Department Chairperson.

4 Lecture Hours. 4 Lab Hours. 6 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: CHM 914

Chemistry 212**Survey of Organic & Biochemistry**

Survey of organic chemistry, including nomenclature and reactions of major functional groups essential to biochemistry. An introduction to the structure and function of biomolecules, and the metabolism of proteins, lipids, and carbohydrates. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Chemistry 201 OR Consent of Department Chairperson.

3 Lecture Hours. 3 Lab Hours. 4 Credit Hours.

Offered at: DA KK TR HW WR

Chemistry 217**Intro Instrumental Analysis**

Use of modern optical and electrical methods in chemical analysis: filter photometers; visible, ultraviolet and infrared spectrophotometer; gas chromatographs, radioactive counters, and pH meters; potentiometers; refractometers; polarimeters; and polarographs. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (Chemistry 201 AND 205), OR Consent of Department Chairperson.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: TR

Chemistry 219**Chemistry for Education I: Matter & Structure**

This course is designed to provide educators with a fundamental understanding of matters, its structure and its changes from both a qualitative and quantitative perspective. Physical properties, chemical interactions, bond, and the atomic structure of matter will be explored and mapped to state science education standards. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: TR

Chemistry 295**Independent Research in Chemistry I**

Original laboratory research supervised by a faculty member, either on campus or off-campus. A well defined academic goal must be outlined by the instructor and the student. This course will usually require library research, laboratory work, and the preparation of final and oral reports. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

2 Lecture Hours. 20 Lab Hours. 2 - 6 Credit Hours.

Offered at: DA KK TR HW WR

Chemistry 296**Independent Research in Chemistry II**

Original laboratory research supervised by a faculty member, either on campus or off-campus. A well defined academic goal must be outlined by the instructor and the student. This course will usually require library research, laboratory work, and the preparation of final and oral reports. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Chemistry 295 OR Consent of Department Chairperson.

2 Lecture Hours. 5 - 20 Lab Hours. 2 - 6 Credit Hours.

Offered at: HW

Chemistry 297**Independent Research in Chemistry III**

Original laboratory research supervised by a faculty member, either on campus or off-campus. A well defined academic goal must be outlined by the instructor and the student. This course will usually require library research, laboratory work, and the preparation of final and oral reports. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Chemistry 296 OR Consent of Department Chairperson.

1 - 2 Lecture Hours. 5 - 20 Lab Hours. 2 - 6 Credit Hours.

Offered at: HW

Chemistry 298**Independent Research in Chemistry IV**

Original laboratory research supervised by a faculty member, either on campus or off-campus. A well defined academic goal must be outlined by the instructor and the student. This course will usually require library research, laboratory work, and the preparation of final and oral reports. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Chemistry 297 OR Consent of Department Chairperson.

1 - 2 Lecture Hours. 5 - 20 Lab Hours. 2 - 6 Credit Hours.

Offered at: HW

Chemistry 299**Independent Research in Chemistry V**

Original laboratory research supervised by a faculty member, either on campus or off-campus. A well defined academic goal must be outlined by the instructor and the student. This course will usually require library research, laboratory work, and the preparation of final and oral reports. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Chemistry 298 OR Consent of Department Chairperson.

1 - 2 Lecture Hours. 10 - 20 Lab Hours. 3 - 6 Credit Hours.

Offered at: HW

Prepares students to read critically in the field of human development. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Child Development 101**Human Growth & Development I**

This course provides a foundation in theory and principles of human development, from conception to early adolescence, including an in-depth study of physical, social, emotional, cognitive, and language development, including children's play. Five hours observing young children, ranging in age from birth to age eight, are required. Writing assignments and oral presentations as appropriate to the discipline are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

4 Lecture Hours. 4 Credit Hours.

Offered at: DA KK MX OH TR HW

Child Development 102**Human Growth & Development II**

Continuation of Child Development 101. Emphasizes adolescence through late adulthood. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Child Development 101, OR Consent of Department Chairperson

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW

Child Development 107**Health Safety And Nutrition**

This introductory course explores practices that promote good nutrition, dental, physical and mental health, as well as the safety of infants, toddlers, preschool, and school-aged children in group settings. The course has a dual emphasis on the health, safety, and nutrition of young children and adult students. Health, lifestyle, preventative health, community resources, and emergency response procedures are examined. This course introduces cultural beliefs that influence health, safety, and nutrition. It explores ethical and legal responsibilities of adults in protecting the emotional and physical well-being of young children. Five observation hours observing young children in an early childhood education setting are required. Writing assignments and oral presentations, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW

Child Development 109**Language & Literacy Development in Early Childhood**

This course explores the developmental process of language and literacy development from birth to age eight. In addition, the course explores the relationship between language, literacy, and all other domains of development. Planning for a variety of developmentally appropriate activities that support language and literacy development are explored, as well as an examination of the role the environment plays and how to design a language and literacy-rich environment for young children. Bilingualism, multiculturalism, and the role of culture in language and literacy development and early childhood education are explored. Eight hours observing young children in an early childhood education setting are required for this course. Writing assignments and oral presentations as appropriate to the discipline are part of the course.

Prerequisite(s): Grade of C or better in CHLD DV 101 or 101-1 and CHLD DV 120 or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW

CHILD DEVELOPMENT (0090)**Child Development 100****Critical Readings in Child Development**

Child Development 120**Intro To Early Childhood Education Group Care**

This introductory course is designed to familiarize students with the historic roots and philosophical foundations of early childhood care and education. The course includes an exploration of different types of early childhood programs, the role of the early childhood professional, and an examination of the student's personal qualities in relationship to expectations of the field. The course will include an examination of the role of culture in child development and anti-biased practices in early childhood education. Finally, the course defines the profession and explores the profession's Code of Ethical Conduct. 5 hours observing young children in an early childhood education setting are required for the course. Writing assignments and oral presentations, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW

Child Development 130**Special Topics in Child Development**

Study of a single topic in child development that would enhance the student's ability to support children and the families of young children. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated four credit hours will be counted toward graduation.

Prerequisite(s): Grade of C or better in Child Development 101 OR Consent of Department Chairperson.

1 Lecture Hour. 1 Credit Hour.

Offered at: HW

Child Development 141**Activity Programming**

Recreational and creative activities as factors which change patterns of behavior in children. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: KK

Child Development 142**Methods & Materials for Infant Toddler Care**

Acquaints current and prospective caregivers with the ways infant and toddlers play and learn at specific developmental levels. Through use of observations students will plan to meet needs of individual children in a group setting. Emphasis will be on creating a context for responsive and respectful care giving in a group setting. Writing assignments and observations, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Child Development 101 OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK TR HW

Child Development 143**Science & Math for Young Children**

This course explores the relationship of play to the content areas of science and math in early childhood. Planning for a variety of developmentally appropriate experiences in mathematics and scientific inquiry are explored as well as an examination of the role of the early childhood environment in supporting development. The course emphasizes the study of cognitive theory as well as observation and documentation of science and math learning in diverse early childhood settings. The course includes student reflections of their own attitudes about science and math. 8 hours observing young children in an early childhood education setting are required for the course. Writing assignments and oral presentations as appropriate to the discipline are part of the course.

Prerequisite(s): Grade of C or better in CHLD DV 101 and CHLD DV 120, OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW

Child Development 149**Creative Activities For Young Children**

This introductory course explores the importance of creative activities in the early childhood curriculum and the relationship of creativity to physical, cognitive, language, social, and emotional development. Planning for a variety of developmentally appropriate, creative experiences that allow young children to play with art, music, movement, literature, and drama is explored as well as an examination of the role of the early childhood environment on creative expression. This course emphasizes the importance of the process of creative expression and provides diverse, creative experiences for adult students so they may understand the arts as a means of communicating ideas, feelings, and cultural expression. 8 hours observing young children in an early childhood education setting are required for the course. Writing assignments and oral presentations, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW

Child Development 201**Observation, Assessment, & Documentation to Support Young Children & Families**

This course provides an examination of developmentally appropriate techniques for observing, documenting, and assessing the development of young children in order to inform curriculum planning and promote positive guidance strategies. The course emphasizes a strengths-based approach to assessment that includes building partnerships with families and professional colleagues. Self-reflection is a major component of the course as well as the examination of bias in the observation and assessment of young children from diverse backgrounds. 15 hours observing young children in an early childhood education setting are required for the course. Writing assignments and oral presentations as appropriate to the discipline are part of the course.

Prerequisite(s): Grade of C or better in CHLD DV 101, 107, 120, and 149 OR Consent of Department Chairperson. Grade of C or better or Concurrent enrollment in CHLD DV 109, 143 OR CHLD DV 262 is recommended.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW

Child Development 205**Development of Exceptional Child**

Study of children whose development does not follow normal patterns; problems of identification, diagnosis and potential assessment. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Child Development 101, OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW

Child Development 225**Supervision of Exceptional Child**

Techniques in handling and communicating with the deaf, blind, developmentally delayed, and physically challenged child. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Child Development 205.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Child Development 228**Principles of Child Care Practice**

Role of the child care worker in group/residential settings; primary objectives and goals; re-examination of child rearing responsibilities in light of treatment goals. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Child Development 101.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Child Development 229 Practicum In Residential Child Care

Twenty hours per week of professional, and supervised training in a Child Care Treatment Program; includes two-hour weekly seminar. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (Child Development 102, and 201, and 228), AND Social Services 212, OR Consent of Department Chairperson.

2 Lecture Hours. 20 Lab Hours. 6 Credit Hours.

Offered at: KK

Child Development 230 Intr To Early Intervention

Introduction to the field of early intervention and the role of the Early Intervention Associate. Includes units covering the background and current status of the field, an overview of the characteristics of normal versus at-risk and special needs population of infants and toddlers, and theoretical models and strategies of early intervention, including Individualized Family Service (IFS) planning and team building. Writing assignments, as appropriate to the discipline, are a part of the course.

Prerequisite(s): Grade of C or better in English 101, OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: TR HW

Child Development 248 Principles & Practice of Infant & Toddler Care

Acquaints prospective teachers and care-givers of infants and toddlers with theory and practice of care and education of very young children in group setting. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Child Development 101 OR Consent of Department Chairperson.

4 Lecture Hours. 4 Credit Hours.

Offered at: KK TR HW

Child Development 258 Principles & Practices of Pre-School Education

This class provides opportunities to plan developmentally appropriate play-based activities that support all developmental domains including physical, cognitive, language, and socioemotional development with an emphasis on designing appropriate early childhood environments that address the needs of all children. The course emphasizes the process of becoming a professional including the implementation of the NAEYC Code of Ethical Conduct and other professional guidelines as well as fostering an early childhood environment that is conducive to respecting diversity. Students will write/revise their philosophy of early care and education. 30 hours observing young children in an early childhood education setting are required for the course. Writing assignments and oral presentations as appropriate to the discipline are part of the course.

Prerequisite(s): Grade of C or better in CHLD DV 101, 107, 109, 120 AND 143, OR Consent of Department Chair. Grade of C or better in CHLD DV 201 OR CHLD DV 262 recommended.

4 Lecture Hours. 4 Credit Hours.

Offered at: DA KK MX OH TR HW

Child Development 259 Practicum In Pre-School

In this capstone course, students spend a minimum of 250 student teaching hours in an early childhood program under the direct mentorship of an on-site supervisor, field supervision by the course instructor, and weekly 2-hour seminar discussions with classmates. Students are expected to apply what they have learned in all previous CD courses including: engaging in positive interactions with young children, planning developmentally appropriate activities, and using appropriate assessment techniques. Students will uphold professional and ethical guidelines. Students will design and revise a Child Development Portfolio compiled of artifacts from their previous coursework and other professional experiences. An emphasis is placed on the NAEYC Standards for Professional Preparation. 250 student teaching hours with on-site supervision in an early childhood education setting are required for this course. Writing assignments and oral presentations, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in CHLD DV 101,107,109,120,143,149,201,,258 AND 262. To register for this course, all students must have Consent of Department Chairperson.

2 Lecture Hours. 20 Lab Hours. 6 Credit Hours.

Offered at: DA KK MX OH TR HW

Child Development 260 Administration & Supervision of Pre-School Centers

For those with experience as teachers or directors of nursery schools or day care centers who wishes to improve their skills in administration and supervision. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK TR HW

Child Development 262 Child, Family & Community Relations

This course explores the importance of building positive relationships between young children, their families, the community, and the early childhood setting. It examines issues of diversity, multiculturalism, and anti-bias approaches in working with young children, their families, and the community as well as current policies, and practices that influence families. This course promotes self-reflection, cross cultural communication, and sensitivity to cultural, linguistic, and ability diversity. 5 hours observing young children in an early childhood education setting are required for the course. Writing assignments and oral presentations as appropriate to the discipline are part of the course.

Prerequisite(s): Grade of C or better in CHLD DV 101 AND CHLD DV 120, OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW

Child Development 269 Practicum in School Age Child Care

In this capstone course, students spend a minimum of 250 student teaching hours in a school-age program under the direct mentorship of an on-site supervisor, field supervision by the course instructor, and weekly 2-hour seminar discussions with classmates. Students are expected to apply what they have learned in all previous CD courses including: engaging in positive interactions with young children, planning developmentally appropriate activities, and using appropriate assessment techniques. Students will uphold professional and ethical guidelines. Students will design and revise a Child Development Portfolio compiled of artifacts from their previous coursework and other professional experiences. An emphasis is placed on the NAEYC Standards for Professional Preparation. 250 student teaching hours with on-site supervision in an early childhood education setting are required for this course. Writing assignments and oral presentations, as appropriate to the discipline, are part of the course. Students spend 20 hours a week, under supervision, working with children in a school-child care setting; 17 weeks with a 2 hour seminar. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

2 Lecture Hours. 20 Lab Hours. 6 Credit Hours.

Offered at: HW

Child Development 299 Special Topics in Child Development/Early Childhood

Special topics in Child Development or Early Childhood Education will be discussed. New developments such as the latest brain research and its implication to working with your children will be emphasized. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Course may be repeated up to three times when topics are different, and may count for a maximum of four variable credits. Consent of Department Chairperson required for repeatability.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

1 - 4 Lecture Hours. 1 - 4 Credit Hours.

Offered at: KK

CHINESE (0141)**Chinese 101**
Introduction to Chinese

This course introduces the basic elements of Mandarin Chinese that will enable the students to develop communicative language skills, basic conversational skills, as well as grammar and vocabulary knowledge in Chinese. Intensive drills on sound and tones, vocabulary, and sentence patterns in meaningful contexts will be used in order for the students to communicate appropriately and accurately in authentic contexts. The course will introduce students to the diverse culture, history, and social etiquette of China. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): ACTFL Writing Proficiency Test (Score 1.00), or Eligibility for English 101, or Consent of Department Chairperson.

4 Lecture Hours. 4 Credit Hours.

Offered at: MX HW

HD Course

Chinese 102
Chinese II

This course is designed for students who have acquired some oral proficiency, but lack formal training and literacy. It teaches more advanced grammar rules while reviewing basic ones. Students will learn how to use a bilingual dictionary to assist their reading of essays and short stories. They will learn to write notes, letters, and paragraphs. The course will introduce students to the diverse culture, history, and social etiquette of China. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): ACTFL Writing Proficiency Test (Score 2.00), or Grade of C or better in Chinese 101, or Consent of Department Chairperson.

4 Lecture Hours. 4 Credit Hours.

Offered at: MX HW

HD Course

Chinese 103
Chinese III

This course is designed for students who have acquired some oral proficiency and basic grammar rules of Mandarin Chinese. It will emphasize four skills: speaking, listening, reading, and writing in culturally authentic situations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Chinese 102 or Consent of Department Chairperson.

4 Lecture Hours. 4 Credit Hours.

Offered at: MX HW

HD Course

Chinese 104
Chinese IV

This course provides intensive work in the use of Mandarin Chinese through listening, speaking, reading, and writing and through continued enhancement of the cultural awareness intrinsic to those four skills. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Chinese 103 or Consent of Department Chairperson.

4 Lecture Hours. 4 Credit Hours.

Offered at: MX HW

IAI: H1 900 GE: Humanities HD Course

magazine and newspaper advertising employing photographs. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (Communications Media 161 or Art 115), OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Communication Media 163
Film Rhetoric

Introductory film making skills, both camera and editing; film viewing designed to cultivate students' understanding of how films affect them; includes terminology, effects of film on people, how these effects are achieved, and concepts of criticism and advertising. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: TR WR

IAI: F2 905 GE: Fine Arts

COMPARATIVE RELIGION (0133)**Comparative Religion 101**
Introduction To Religion

Introduction to the nature, origin, beliefs, practices, and development of religion in society. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH TR WR

IAI: H5 900 GE: Humanities

Comparative Religion 102
The Bible - Hebrew Old Test

The study of the Old Testament with an emphasis on its historical, cultural and intellectual settings; literary characteristics; and the scholarship related to its various translations and interpretations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH TR WR

IAI: H5 901 GE: Humanities

Comparative Religion 103
The Bible - New Testament

The study of the New Testament, with an emphasis on its historical, cultural and intellectual settings; literary characteristics; and the scholarship related to its various translations and interpretations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH TR WR

IAI: H5 901 GE: Humanities

COMMUNICATION MEDIA (0004)**Communication Media 162**
Photography Of Persuasion

Advanced photography darkroom skills; past and present use of photography in persuasion as in advertising and political campaigns; different approaches in

Comparative Religion 104**Islamic Scriptures: The Qur'an**

The study of the Qur'an with an emphasis on its historical, cultural and intellectual settings; literary characteristics; and the scholarship related to its various translations and interpretations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: OH TR WR

IAI: H5 901 GE: Humanities

Comparative Religion 106**Comparative Religion I/Eastern Religion**

Comparison and investigation of major Eastern religions. Includes origins, rituals, religious knowledge and destiny. This course concentrates on the religions of the Eastern world. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK OH TR WR

IAI: H5 904N GE: Humanities HD Course

Comparative Religion 107**Com Rel II Western Religion**

Comparison and investigation of major Western religions. Includes origins, rituals, religious knowledge and destiny. This course concentrates on the religions of the Western world. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH TR

IAI: H5 904N GE: Humanities HD Course

Comparative Religion 108**Religion And Psychology**

The study of the relationship between religion and psychology. Includes the similarities between religious and psychological phenomena; ways religion and psychology shape and influence one another; and how human needs are met through the blending of religious and psychological experiences. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: OH TR

GE: Humanities

COMPUTER INFORMATION SYSTEMS (0032)

Computer Information Systems 101**Computer Science 101**

An introductory course in computer science and programming, with emphasis on the logical analysis of a problem and the formulation of a computer program leading to its solution. Topics include basic concepts of computer systems, computer types, cloud computing, and computer programming languages. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Computer Information Systems 102**Intro To Programming Logic**

Techniques and problem-solving aids necessary for efficient solution of computer programming problems. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK MX OH

Computer Information Systems 103**Fundamentals of Programming**

How to use a language to program a computer for real world problem solving in mathematics, science, business and other fields. The course will feature elements of program design, data types and expressions, procedures and modularity, conditions and loops, data and control structures, development of algorithms, and writing and debugging programs. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Computer Information Systems 111**Computer Operations**

This course introduces operation and routine maintenance of hardware technologies; central processing unit; peripheral devices; network setup and connecting; notebooks; and printers. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Computer Information Systems 112**Advanced Computer Operation**

Operating system concepts; program resources, and their allocations, job scheduling, exception handling, set-up, relationship between operating system, hardware and user program, time sharing and teleprocessing. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Computer Information Systems 111.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: KK

Computer Information Systems 113**Human-Computer Interaction**

This course introduces students to the user interface development process, including evaluating, managing, and differentiating interaction styles. Design limitations and issues will be discussed, as students explore the design of computer interfaces. Students will follow an interactive design process to create a user-centered interface. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA MX OH TR WR

Computer Information Systems 114**Mobile Application Development**

This course emphasizes development in an application language appropriate for mobile devices. This course covers programming logic, tools, and code syntax. It also covers designing interfaces to create an interactive multimedia mobile app. Students are expected to have some previous programming experience. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in CIS 142 or CIS 144, or consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA MX OH TR WR

Computer Information Systems 116 Operating System I

An overview including a theoretical and practical framework for the study of controlling software in the microcomputer environment using prevailing cooperating systems. The concepts of interrupt handling, scheduling and query techniques, and access and storage methods will be clarified through readings and discussions. Writing assignments, as appropriate to the discipline, are part of the course. No more than 3 credit hours will count towards the CICT requirements. Additional earned credit hours up to 6 will be counted towards elective and requires Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Computer Information Systems 118 Information Technology Problem Solving

The course introduces students to a wide variety of problem solving methodologies and Information Technology tools that build problem solving skills needed to effectively meet the challenges of real world scenarios. They will use a variety of IT tools including programming, social media and networking among others. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR WR

Computer Information Systems 120 Intro to Microcomputers

Fundamental concepts of computer information systems as applied to microcomputers in business and personal use; includes hands-on experience with a variety of microcomputer software. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than three credit hours will be counted towards the CIS/IT degree requirements. Additional earned credit hours up to six will be counted towards elective credit and requires the consent of Departments Chairperson. ARC: 3 times.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: BUS 902

Computer Information Systems 122 Intro to Word Processing on Microcomputers

In-depth concepts of word processing as they apply to microcomputers in business and personal use. Laboratory assignments provide hands-on experience with microcomputer word processing software. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than three credit hours will be counted towards the CIS/IT degree requirements. Additional earned credit hours up to six will be counted towards elective credit and requires the Consent of Departments Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Computer Information Systems 123 Microcomputer Spreadsheets

Fundamental concepts of computer programs as exemplified in the electronic spreadsheet. Emphasis on business applications and personal financial management and tax preparation. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than three credit hours will be counted towards the CIS/IT degree requirements. Additional earned credit hours up to six will be counted towards elective credit and requires the Consent of Departments Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Computer Information Systems 130 Intro to Assembler Programming

Writing programs demonstrating use of assembler language. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Computer Information Systems 103 and Computer Information Systems 135, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Computer Information Systems 142 C++ Object Oriented Programming I

Fundamentals of structured object-oriented C++ programming through a study of program specification and design, algorithm development, flowcharts, problem solving, programming concepts, classes and methods, control structures, arrays, strings, coding and testing using a modern software development environment. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in CIS 101 and grade of C or better in Math 118 or higher, or consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: CS 911

Computer Information Systems 144 Java Object Oriented Programming I

A block-structured high-level programming language commonly used in internet applications; including procedural and data abstraction programming styles; the concepts of design, testing, and documentation in programming, programming platforms, and software developments; selection, repetition, and sequence control structures; the basic programming elements of arrays, records, and files. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in CIS 101 and grade of C or better in Math 118 or higher, or consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: CS 911

Computer Information Systems 145 Database Management

In-depth concepts of database as they apply to microcomputers in business and personal use to build information management systems. The network, hierarchical, and relational models are discussed. DBMS on microcomputers are used for lab assignments to implement the rational models. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than three credit hours will be counted towards the CIS/IT degree requirements. Additional earned credit hours up to six will be counted towards elective credit and requires the Consent of Departments Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Computer Information Systems 158 Web Development I

Course emphasis will include the design and development of standards-based HTML, XHTML, and CSS documents with an introduction to Javascript. Previous knowledge of file management, including downloading and uploading, is required. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in CIS 101 or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Computer Information Systems 171 Computer Mathematics

Survey of numbers systems, conversion of one number system into another; fundamental operations of binary, octal and hexadecimal arithmetic. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Math 099, or Grade of C or better in Math 140.

3 - 4 Lecture Hours. 3 - 4 Credit Hours.

Offered at: DA

Computer Information Systems 181 Web Development I/Basic Web Technologies

This course covers website architecture, layout structure, documentation, and user interface development with an emphasis on valid and semantic code. Style sheets will be used to organize and present page content. Responsive design techniques and tools will be used to build a robust website. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 OR Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Computer Information Systems 182 Web Development II/Client Side Scripting

This course focuses on client-wide scripting language to verify data entry, to manipulate and control web page elements, and to store information on client machines using cookies. This course also introduces students to industry-standard client-side scripting libraries as well as concepts of data handling. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in CIS 181, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR WR

Computer Information Systems 203 Advanced Basic Programming

Event-driven programming using the Visual Basic programming language. Includes algorithm development, structured design and file processing, and the use of various controls including control arrays, exception handling and the use multiple forms. Introduces database manipulation using Microsoft Access and database controls. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in CIS 103, or Grade of C or better in CIS 142, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK TR

Computer Information Systems 242 C++ Object Oriented Programming II

Building on prior programming experience, design and implementation of large-scale programs; abstract data types; and data structures: files, sets, pointers, lists, stacks, queues, trees, graphs. Program verification and complexity, recursions, and dynamic concepts: memory, scope, block structures. Text processing and introduction to searching and sorting algorithms. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in CIS 142, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA KK OH TR WR

IAI: CS 912

Computer Information Systems 244 Java Object Oriented Programming II

Use fast, secure, and reliable Java programming language for designing and implementing applications and websites; management of abstract data types; data structures (lists, stacks, queues, trees, graphs); program verification and complexity; recursion; dynamic concepts (dynamic memory allocation); text processing, and an introduction to searching and sorting algorithms. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in CIS 144 or Consent of Department Chairperson

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR WR

IAI: CS 912

Computer Information Systems 250 Introduction to Systems

This course provides students with theory and practice associated with the analysis and design of computer-based information systems. Fundamental topics include

systems theory, the role of the information system in operating and managing the organization, systems design concepts, forms and work-flow, entity relationship diagramming, equipment selection, and implementation of systems. Other topics include the function of design tools such as CASE planning techniques, and project management. Hands-on activities will be introduced at each face of the SDLC with built-in security measures. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in CIS 101 OR Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Computer Information Systems 251 Intro to Database Management Systems

Examination of data manipulation needs and comparison of traditional processes for meeting needs with data base approach; use of computer simulations to practice and apply database management system (DBMS) techniques. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH TR

Computer Information Systems 255 Operating Systems II

This course introduces prevailing operating systems and their relationship to servers in the work environment. Course covers distributions and licensing, system installation and configuration, file system management, system scripting and usage, resource administration, user and group management, process, services and kernel management, and network configuration. Students will also learn how to set up network and other services on a server system and perform remote administration. Administrative tasks include file compression, system backup, and software installation. Topics in troubleshooting, performance tuning, virtualization and system security are also covered in this course. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in CIS 116 OR COMPSFI 101 OR Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR WR

Computer Information Systems 258 Web Development II

Extends introductory concepts of CIS 158, using a variety of Internet and general networking concepts, including interactive forms and CGI programming for the World Wide Web, multimedia development, Intranets, server installation and management, and database connectivity, and simple website administration. This will include multimedia additions, setting design styles, and installing on a web server. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in CIS 158 or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW

Computer Information Systems 260 Computer Information Systems Field Project

This is a capstone course that provides students with practical application of computer skills by participation in a planned and coordinated field project. At the start of the class, specific goals and requirements will be carefully outlined to ensure that the student is aware of his or her responsibilities. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): CIS 260 - Prerequisites: Minimum of 18 credit hours completed with a C or better in CIS or NET TEC or CSFI courses, and consent of Department Chair.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR WR

Computer Information Systems 265 Computer Information Systems Internship

Students gain data processing experience by working at an appropriate and supervised work-training station. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

2 Lecture Hours. 5 Lab Hours. 3 Credit Hours.

Offered at: DA KK OH

Computer Information Systems 281 Web Development III/Server Side Programming

Continuation of CIS 182. Part III presents dynamic web programming using server side programming techniques. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in NET 101 OR CIS 182, OR Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR WR

Computer Information Systems 282 Web Development IV/Web Database Integration

Continuation of CIS 281. Part IV covers advanced topics in web development, including but not limited to Error Handling, Email, User Profile, Content Management, basic Online Store and E-Commerce Fundamentals. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in CIS 281, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR WR

Computer Information Systems 299 Special Topic Computer Information Systems

Special topics in CIS will be discussed along with appropriate lab and/or field trip activities. New developments will be emphasized, especially materials useful in K12 education and industry. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Course may be repeated up to three times when topics are different, and may count for a maximum of four variable credits. Consent of Department Chairperson required for repeatability.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

1 - 4 Lecture Hours. 1 - 4 Credit Hours.

Offered at: KK TR

CONSTRUCTION MANAGEMENT (0432)

Construction Management 601 Introduction to Construction

The course is designed to give the student a foundation in the basic concepts of construction. The course focuses on the fundamental skills needed in the industry for the core construction class; industry related terminology, construction processes and procedures, scale reading, applying construction calculation, measuring, tools and usage, and industry job descriptions. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Credit Hours.

Offered at: KK

Construction Management 602 Methods of Building Construction

The course is designed to develop an understanding of the methods of construction of residential and commercial type building and includes a survey of different types of construction and their advantages and limitations. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Construction Management 603 Building Materials and Testing

Examination of the characteristics of materials such as wood, masonry, concrete, iron, and steel relative to their basic use in the construction industry. The physical properties of each will be studied relative to actual in-service behavior. This course is an introduction to the field and laboratory methods of testing soils, concrete, and steel. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Construction Management 604 Blueprint and Specifications

Designed to provide proper knowledge of blueprints reading as it relates the architectural or building construction industry. The course covers the theory of orthographic projections, reading floor plans and elevations drawings, symbols and notations, scaling and dimensioning practices, reading blueprints of structural information, electrical and mechanical trade drawings. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Construction Management 605 Construction Cost Estimating

This course is designed to provide the students with a basic introduction to the methods of construction, estimating and developing the associated costs. Students will gain a working knowledge of materials takeoffs, the estimating process, building and estimating spreadsheets, unit cost, assemblies for different trades, overhead and profit. Manual and computer approaches to solving estimating problems will be used. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 432CMGT 604 and CIS 120.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Construction Management 606 Construction Contracting Specs

Introduction the functions and operations of a construction office, including bidding, construction contracts and specifications, bonds and insurance, labor law and labor relations. Legal aspects and interpretation of contracts and specifications. This course is designed to give the student a general working knowledge of the various types of contracts, specification, and delivery methods. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 432CMGT 604.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Construction Management 607 Construction Scheduling/Management

An introduction to the methods of construction scheduling and project management. Students will become familiarized with using different scheduling approaches, how to handle worksite paperwork, and to plan the need for manpower, materials, and equipment coordination with the project budget. The course will use manual and computer approaches to solving scheduling programs. Discussion and critical path methods (CPM) and analysis are included in the course. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 432CMGT 604 and CIS 120.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Construction Management 608 Project Management

This course is designed to provide the student with a basic understanding of the process of a construction project and provide the tools that are necessary to estimate or manage a construction project. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 432CMGT 604, 607, and CIS 120.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Construction Management 609 Construction Safety II

This course covers thirty (30) hours of training, required by the Occupational Health and Safety Act (OSHA) that apply toward the 30-hour Construction Industry course completion card. The course covers topics pertaining to regulations covered by Standard 28 CFR 1926. Upon successful completion of the course, participants will receive an OSHA construction safety and health 30-hour course completion card from the Department of Labor. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Construction Management 610 Construction Internship

This course is designed to give the student the practical application of current construction methods. There will be a variety of projects from the residential and commercial sectors. The sites selected will vary due to availability and weather. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Consent of Department Chairperson.

3 Lab Hours. 3 Credit Hours.

Offered at: KK

CONSTRUCTION MATERIALS TECHNIC (0432)

Construction Materials Technic 611 Hot Mix Asphalt Level I

This course will include an introduction to laboratory and field equipment including proper utilization and calibration. Testing and general information on asphalt and the IDOT QC/QA will be presented. Student will be prepared to sit for the IDOT Level I certification in performing Hot Mix Asphalt (HMA) testing in the laboratory and field. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: KK

Construction Materials Technic 612 Portland Cement Concrete Level I

The course is designed to prepare the student for level ACI/IDOT certification in performing Portland Cement Concrete (PCC) activities in the laboratory test. Testing and general information on the PCC and the IDOT QC/QA will be covered. Persons completing this course will be able to do the field testing for PCC and QC/QA projects. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: KK

Construction Materials Technic 613 Aggregates and Soils Level I

This course is designed to prepare the student for IDOT 3 day Aggregates and Soils certification in performing aggregates and soil material testing in the laboratory including typical laboratory test methods and in the field. Writing assignments, as appropriate to the discipline, are part of the course.

1 - 3 Lecture Hours. 1 - 3 Credit Hours.

Offered at: KK

COOPERATIVE WORK EXPERIENCE (0008)

Cooperative Work Experience 101 Coop Education Exploration

Career planning, job entry skills, guidance to assist students in exploring and assessing their interests, aptitudes and abilities for consideration of career goals; development of skills necessary for job search success and job entry preparation. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in English 100 OR Grade of C or better in English 127 AND Grade of C or better in Reading 125, OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK HW

Cooperative Work Experience 105 Business Technologies CWE

The Cooperative Education course is designed to provide employment skills as a concurrent and integral part of a student's educational program in a number of career areas. Students are placed in an approved employment situation mutually agreed upon by the student, college staff, and employer, with the opportunity to apply knowledge and gain exposure to work methods unavailable in the classroom. College staff members develop with each student a written educational plan, including performance-based measurable objectives. Guidance and supervision are regularly provided by college staff members who visit students at work, confer with the employer, measure progress, and work out any concerns. Follow-up seminars with the staff may be scheduled for up to two hours per week. Students are assigned a job directly related to their academic program/plan, which will enhance educational goals without infringing upon course or program/plan obligations. Academic credit for part-time employment (up to 20 hours per week) is awarded on a ratio of 1 semester hour of credit for each 5 hours of approved employment per week, with a maximum of 4 semester hours credit for the work component. Academic credit for full-time employment (21 or more hours per week) is awarded on a ratio of 1 semester hour of credit for each 10 hours of approved employment per week, with a maximum of 4 semester hours of credit for the work component. If offered in conjunction with the work component, 1 semester credit hour is awarded for each seminar hour per week up to a maximum of 2 semester credit hours. In total, variable credit may be acquired depending upon the number of hours on the job and the extent of follow-up seminars, up to a maximum of 6 semester credit hours. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Consent of Department Chairperson.

2 Lecture Hours. 20 Lab Hours. 3 - 6 Credit Hours.

Offered at: DA KK OH TR HW WR

Cooperative Work Experience 106 Commercial-Data Processing CWE

The Cooperative Education course is designed to provide employment skills as a concurrent and integral part of a student's educational program in a number of career areas. Students are placed in an approved employment situation mutually agreed upon by the student, college staff, and employer, with the opportunity to apply knowledge and gain exposure to work methods unavailable in the classroom. College staff members develop with each student a written educational plan, including performance-based measurable objectives. Guidance and supervision are regularly provided by college staff members who visit students at work, confer with the employer, measure progress, and work out any concerns. Follow-up seminars with the staff may be scheduled for up to two hours per week. Students are assigned a job directly related to their academic program/plan, which will enhance educational goals without infringing upon course or program/plan obligations. Academic credit for part-time employment (up to 20 hours per week) is awarded on a ratio of 1 semester hour of credit for each 5 hours of approved employment per week, with a maximum of 4 semester hours credit for the work component. Academic credit for full-time employment (21 or more hours per week) is awarded on a ratio of 1 semester hour of credit for each 10 hours of approved employment per week, with a maximum of 4 semester hours of credit for the work component. If offered in conjunction with the work component, 1 semester credit hour is awarded for each seminar hour per week up to a maximum of 2 semester credit hours. In total, variable credit may be acquired depending upon the number of hours on the job and the extent of follow-up seminars, up to a maximum of 6 semester credit hours. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Consent of Department Chairperson.

2 Lecture Hours. 20 Lab Hours. 3 - 6 Credit Hours.

Offered at: DA KK OH WR

Cooperative Work Experience 107 Health CWE

The Cooperative Education course is designed to provide employment skills as a concurrent and integral part of a student's educational program in a number of career areas. Students are placed in an approved employment situation mutually agreed upon by the student, college staff, and employer, with the opportunity to apply knowledge and gain exposure to work methods unavailable in the classroom. College staff members develop with each student a written educational plan, including performance-based measurable objectives. Guidance and supervision are regularly provided by college staff members who visit students at work, confer with the employer, measure progress, and work out any concerns. Follow-up seminars with the staff may be scheduled for up to two hours per week. Students are assigned a job directly related to their academic program/plan, which will enhance educational goals without infringing upon course or program/plan obligations. Academic credit for part-time employment (up to 20 hours per week) is awarded on a ratio of 1 semester hour of credit for each 5 hours of approved employment per week, with a maximum of 4 semester hours credit for the work component. Academic credit for full-time employment (21 or more hours per week) is awarded on a ratio of 1 semester hour of credit for each 10 hours of approved employment per week, with a maximum of 4 semester hours of credit for the work component. If offered in conjunction with the work component, 1 semester credit hour is awarded for each seminar hour per week up to a maximum of 2 semester credit hours. In total, variable credit may be acquired depending upon the number of hours on the job and the extent of follow-up seminars, up to a maximum of 6 semester credit hours. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Consent of Department Chairperson.

2 Lecture Hours. 20 Lab Hours. 3 - 6 Credit Hours.

Offered at: DA MX WR

Cooperative Work Experience 108 Engineering & Industrial Technologies CWE

The Cooperative Education course is designed to provide employment skills as a concurrent and integral part of a student's educational program in a number of career areas. Students are placed in an approved employment situation mutually agreed upon by the student, college staff, and employer, with the opportunity to apply knowledge and gain exposure to work methods unavailable in the classroom. College staff members develop with each student a written educational plan, including performance-based measurable objectives. Guidance and supervision are regularly provided by college staff members who visit students at work, confer with the employer, measure progress, and work out any concerns. Follow-up seminars with the staff may be scheduled for up to two hours per week. Students are assigned

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Prerequisite(s): Consent of Department Chairperson.

2 Lecture Hours. 20 Lab Hours. 3 - 6 Credit Hours.

Offered at: DA KK OH TR WR

Cooperative Work Experience 109 Natural Science Technologies CWE

The Cooperative Education course is designed to provide employment skills as a concurrent and integral part of a student's educational program in a number of career areas. Students are placed in an approved employment situation mutually agreed upon by the student, college staff, and employer, with the opportunity to apply knowledge and gain exposure to work methods unavailable in the classroom. College staff members develop with each student a written educational plan, including performance-based measurable objectives. Guidance and supervision are regularly provided by college staff members who visit students at work, confer with the employer, measure progress, and work out any concerns. Follow-up seminars with the staff may be scheduled for up to two hours per week. Students are assigned a job directly related to their academic program/plan, which will enhance educational goals without infringing upon course or program/plan obligations. Academic credit for part-time employment (up to 20 hours per week) is awarded on a ratio of 1 semester hour of credit for each 5 hours of approved employment per week, with a maximum of 4 semester hours credit for the work component. Academic credit for full-time employment (21 or more hours per week) is awarded on a ratio of 1 semester hour of credit for each 10 hours of approved employment per week, with a maximum of 4 semester hours of credit for the work component. If offered in conjunction with the work component, 1 semester credit hour is awarded for each seminar hour per week up to a maximum of 2 semester credit hours. In total, variable credit may be acquired depending upon the number of hours on the job and the extent of follow-up seminars, up to a maximum of 6 semester credit hours. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Consent of Department Chairperson.

2 Lecture Hours. 20 Lab Hours. 3 - 6 Credit Hours.

Offered at: DA KK OH WR

Cooperative Work Experience 110 Public & Human Services CWE

The Cooperative Education course is designed to provide employment skills as a concurrent and integral part of a student's educational program in a number of career areas. Students are placed in an approved employment situation mutually agreed upon by the student, college staff, and employer, with the opportunity to apply knowledge and gain exposure to work methods unavailable in the classroom. College staff members develop with each student a written educational plan, including performance-based measurable objectives. Guidance and supervision are regularly provided by college staff members who visit students at work, confer with the employer, measure progress, and work out any concerns. Follow-up seminars with the staff may be scheduled for up to two hours per week. Students are assigned a job directly related to their academic program/plan, which will enhance educational goals without infringing upon course or program/plan obligations. Academic credit for part-time employment (up to 20 hours per week) is awarded on a ratio of 1 semester hour of credit for each 5 hours of approved employment per week, with a maximum of 4 semester hours credit for the work component. Academic credit for full-time employment (21 or more hours per week) is awarded on a ratio of 1 semester hour of credit for each 10 hours of approved employment per week, with a maximum of 4 semester hours of credit for the work component. If offered in conjunction with the work component, 1 semester credit hour is awarded for each seminar hour per week up to a maximum of 2 semester credit hours. In total, variable credit may be acquired depending upon the number of hours on the job and the extent of follow-up seminars, up to a maximum of 6 semester credit hours. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Consent of Department Chairperson.

2 Lecture Hours. 20 Lab Hours. 3 - 6 Credit Hours.

Offered at: DA KK OH WR

Cooperative Work Experience 205 Business Technologies CWE

The Cooperative Education course is designed to provide employment skills as a concurrent and integral part of a student's educational program in a number of career areas. Students are placed in an approved employment situation mutually agreed upon by the student, college staff, and employer, with the opportunity to apply knowledge and gain exposure to work methods unavailable in the classroom. College staff members develop with each student a written educational plan, including performance-based measurable objectives. Guidance and supervision are regularly provided by college staff members who visit students at work, confer with the employer, measure progress, and work out any concerns. Follow-up seminars with the staff may be scheduled for up to two hours per week. Students are assigned a job directly related to their academic program/plan, which will enhance educational goals without infringing upon course or program/plan obligations. Academic credit for part-time employment (up to 20 hours per week) is awarded on a ratio of 1 semester hour of credit for each 5 hours of approved employment per week, with a maximum of 4 semester hours credit for the work component. Academic credit for full-time employment (21 or more hours per week) is awarded on a ratio of 1 semester hour of credit for each 10 hours of approved employment per week, with a maximum of 4 semester hours of credit for the work component. If offered in conjunction with the work component, 1 semester credit hour is awarded for each seminar hour per week up to a maximum of 2 semester credit hours. In total, variable credit may be acquired depending upon the number of hours on the job and the extent of follow-up seminars, up to a maximum of 6 semester credit hours. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Consent of Department Chairperson.

2 Lecture Hours. 20 Lab Hours. 3 - 6 Credit Hours.

Offered at: DA KK OH TR HW WR

Cooperative Work Experience 206 Commercial-Data Processing CWE

The Cooperative Education course is designed to provide employment skills as a concurrent and integral part of a student's educational program in a number of career areas. Students are placed in an approved employment situation mutually agreed upon by the student, college staff, and employer, with the opportunity to apply knowledge and gain exposure to work methods unavailable in the classroom. College staff members develop with each student a written educational plan, including performance-based measurable objectives. Guidance and supervision are regularly provided by college staff members who visit students at work, confer with the employer, measure progress, and work out any concerns. Follow-up seminars with the staff may be scheduled for up to two hours per week. Students are assigned

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Prerequisite(s): Consent of Department Chairperson.

2 Lecture Hours. 20 Lab Hours. 3 - 6 Credit Hours.

Offered at: DA KK OH WR

Cooperative Work Experience 207 Health CWE

The Cooperative Education course is designed to provide employment skills as a concurrent and integral part of a student's educational program in a number of career areas. Students are placed in an approved employment situation mutually agreed upon by the student, college staff, and employer, with the opportunity to apply knowledge and gain exposure to work methods unavailable in the classroom. College staff members develop with each student a written educational plan, including performance-based measurable objectives. Guidance and supervision are regularly provided by college staff members who visit students at work, confer with the employer, measure progress, and work out any concerns. Follow-up seminars with the staff may be scheduled for up to two hours per week. Students are assigned a job directly related to their academic program/plan, which will enhance educational goals without infringing upon course or program/plan obligations. Academic credit for part-time employment (up to 20 hours per week) is awarded on a ratio of 1 semester hour of credit for each 5 hours of approved employment per week, with a maximum of 4 semester hours credit for the work component. Academic credit for full-time employment (21 or more hours per week) is awarded on a ratio of 1 semester hour of credit for each 10 hours of approved employment per week, with a maximum of 4 semester hours of credit for the work component. If offered in conjunction with the work component, 1 semester credit hour is awarded for each seminar hour per week up to a maximum of 2 semester credit hours. In total, variable credit may be acquired depending upon the number of hours on the job and the extent of follow-up seminars, up to a maximum of 6 semester credit hours. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Consent of Department Chairperson.

2 Lecture Hours. 20 Lab Hours. 3 - 6 Credit Hours.

Offered at: DA MX WR

Cooperative Work Experience 208 Engineering & Industrial Technologies CWE

The Cooperative Education course is designed to provide employment skills as a concurrent and integral part of a student's educational program in a number of career areas. Students are placed in an approved employment situation mutually agreed upon by the student, college staff, and employer, with the opportunity to apply knowledge and gain exposure to work methods unavailable in the classroom. College staff members develop with each student a written educational plan, including performance-based measurable objectives. Guidance and supervision are regularly provided by college staff members who visit students at work, confer with the employer, measure progress, and work out any concerns. Follow-up seminars with the staff may be scheduled for up to two hours per week. Students are assigned a job directly related to their academic program/plan, which will enhance educational goals without infringing upon course or program/plan obligations. Academic credit for part-time employment (up to 20 hours per week) is awarded on a ratio of 1 semester hour of credit for each 5 hours of approved employment per week, with a maximum of 4 semester hours credit for the work component. Academic credit for full-time employment (21 or more hours per week) is awarded on a ratio of 1 semester hour of credit for each 10 hours of approved employment per week, with a maximum of 4 semester hours of credit for the work component. If offered in conjunction with the work component, 1 semester credit hour is awarded for each seminar hour per week up to a maximum of 2 semester credit hours. In total, variable credit may be acquired depending upon the number of hours on the job and the extent of follow-up seminars, up to a maximum of 6 semester credit hours. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Consent of Department Chairperson.

2 Lecture Hours. 20 Lab Hours. 3 - 6 Credit Hours.

Offered at: DA KK OH TR WR

Cooperative Work Experience 209 Natural Science Technologies CWE

The Cooperative Education course is designed to provide employment skills as a concurrent and integral part of a student's educational program in a number of career areas. Students are placed in an approved employment situation mutually agreed upon by the student, college staff, and employer, with the opportunity to apply knowledge and gain exposure to work methods unavailable in the classroom. College staff members develop with each student a written educational plan, including performance-based measurable objectives. Guidance and supervision are regularly provided by college staff members who visit students at work, confer with the employer, measure progress, and work out any concerns. Follow-up seminars with the staff may be scheduled for up to two hours per week. Students are assigned a job directly related to their academic program/plan, which will enhance educational goals without infringing upon course or program/plan obligations. Academic credit for part-time employment (up to 20 hours per week) is awarded on a ratio of 1 semester hour of credit for each 5 hours of approved employment per week, with a maximum of 4 semester hours credit for the work component. Academic credit for full-time employment (21 or more hours per week) is awarded on a ratio of 1 semester hour of credit for each 10 hours of approved employment per week, with a maximum of 4 semester hours of credit for the work component. If offered in conjunction with the work component, 1 semester credit hour is awarded for each seminar hour per week up to a maximum of 2 semester credit hours. In total, variable credit may be acquired depending upon the number of hours on the job and the extent of follow-up seminars, up to a maximum of 6 semester credit hours. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Consent of Department Chairperson.

2 Lecture Hours. 20 Lab Hours. 3 - 6 Credit Hours.

Offered at: DA KK OH WR

Cooperative Work Experience 210 Public & Human Services CWE

The Cooperative Education course is designed to provide employment skills as a concurrent and integral part of a student's educational program in a number of career areas. Students are placed in an approved employment situation mutually agreed upon by the student, college staff, and employer, with the opportunity to apply knowledge and gain exposure to work methods unavailable in the classroom. College staff members develop with each student a written educational plan, including performance-based measurable objectives. Guidance and supervision are regularly provided by college staff members who visit students at work, confer with the employer, measure progress, and work out any concerns. Follow-up seminars with the staff may be scheduled for up to two hours per week. Students are assigned

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Prerequisite(s): Consent of Department Chairperson.

2 Lecture Hours. 20 Lab Hours. 3 Credit Hours.

Offered at: DA KK OH WR

COSMETOLOGY (0163)

Cosmetology 101 Intro to Cosmetology/Cosmetic Art

Topics covered in this course include orientation to the cosmetology field, its history, and the current state of the profession. This course also provides a foundation for understanding the histology of hair, principles of personal hygiene, requirements and procedures for sterilization and sanitation, shampoo and scalp treatment, roller control, manicures and pedicures. Additionally, students will gain specific knowledge of the techniques, principles, purposes, benefits and the contra-indications of applying hand, neck, and facial massage. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096, OR ESL 099 AND Math 3001.

1 Lecture Hour. 12 Lab Hours. 5 Credit Hours.

Offered at: OH TR

Cosmetology 102 Hair Shaping Technology

Students learn to identify, safely use and properly care for the various types of tools used for cutting and shaping hair. Students develop skill and proficiency in shaping hair with scissors and razors, as well as in various methods of cutting hair as required by specific hair styling and permanent waving. Considerable emphasis is placed on efficiency and quality. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Cosmetology 101

15 Lab Hours. 5 Credit Hours.

Offered at: TR

Cosmetology 103 Basic Styling Technology

Through this course, students receive comprehensive instruction regarding the tools, materials, equipment and methods of basic waving and styling. Skills are developed in the proper application of sculpture curls, roller direction, comb-out techniques, and basic styling. Emphasis is placed on adapting hairstyles to suit the individual and recognizing the texture, elasticity and porosity of various types of hair. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Cosmetology 101. Grade of C or better OR concurrent enrollment in 102.

15 Lab Hours. 5 Credit Hours.

Offered at: TR

Cosmetology 104 Hair Tinting Technology

Studying the principles and techniques of applying hair tints and bleaches, students learn color-blending methods and they gain knowledge about the composition, merits and limitations of chemicals used in the cosmetology field. Students also learn about potential reactions of various hair and scalp textures to specific chemicals. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Cosmetology 101. Grade of C or better OR concurrent enrollment in 102 and 103.

9 Lab Hours. 3 Credit Hours.

Offered at: TR

Cosmetology 105 Salon Technology I

This course provides opportunities for the practical application of specific customer services for which the student has received previous training. Work is performed under the direct supervision of a licensed and experienced instructor. Emphasis is placed on the development of proficiency. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Cosmetology 101, 102. Grade of C or better OR Concurrent enrollment in Cosmetology 103 and 104.

15 Lab Hours. 5 Credit Hours.

Offered at: TR

Cosmetology 106 Salon Technology II

This course provides continued opportunities for the practical application of specific customer services for which the student has received previous training. Work is performed under the direct supervision of a licensed and experienced instructor. Emphasis is placed on the development of proficiency. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Cosmetology 101, 102, 103. Grade of C or better OR concurrent enrollment in 104 and 105.

15 Lab Hours. 5 Credit Hours.

Offered at: TR

Cosmetology 201 Advanced Styling Technology

Students received advance training to increase proficiency in all areas of customer servicing as it relates to cosmetology. Students will refine and further develop specific skills and technique previously learned to enhance hair shaping, coloring, tinting, waving and creative styling. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Cosmetology 101, 102, 103, 104, 105. Grade of C or better OR concurrent enrollment in 106.

12 Lab Hours. 4 Credit Hours.

Offered at: TR

Cosmetology 202 Summative Seminar

This course provides the opportunity for practical application of all previously acquired cosmetology knowledge and skills. Although trainees perform all work under direct supervision of a licensed and experienced cosmetology instructor, they are much less dependent upon instructors in carrying out assignments. Considerable emphasis is placed on efficiency and quality of work performed while servicing clients. Finalizing of the portfolio and salon floor plan is required for this course. Preparation and review for the Illinois State exam will be provided. Writing assignments as appropriate to the discipline are part of the course.

Prerequisite(s): Grade of C or better in Cosmetology 101, 102, 103, 104, 105 and 106 and 201, or concurrent with 106, 201.

12 Lab Hours. 4 Credit Hours.

Offered at: TR

Cosmetology 211 Post-Graduate Cosmetology Training I

This course covers subjects in the basic Cosmetology curriculum such as proper techniques in roller setting, haircutting, clipper and razor cutting, skin care, and massage, including theory and practice. Presentation of material includes the concepts that are intended to be taught and the skills to be acquired during the various phases of basic education. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in HIM 102.

2 Lecture Hours. 4 Lab Hours. 6 Credit Hours.

Offered at: TR

Cosmetology 212 Post-Graduate Cosmetology Training II

This course covers subjects in the basic Cosmetology curriculum such as proper techniques in wet hair styling, manicuring, pedicuring, chemical hair treatment, and hair coloring, including theory and practice. Presentation of materials includes the concepts that are intended to be taught and the skills to be acquired during the various phases of basic education. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): High School Diploma OR GED Certificate required. Student must be a graduate of an accredited cosmetology school AND possess an active State of IL Cosmetology License.

2 Lecture Hours. 4 Lab Hours. 6 Credit Hours.

Offered at: TR

Cosmetology 223 Basic Teaching Skills for Career Education Instructors

Topics in this course cover educational objectives, student characteristics and development, the learning process and evaluation of learning, classroom management and lesson planning, assessment of learner performance, student motivation, and classroom development. Preparation and organization of subject matter of presentations include teaching objectives to be accomplished and correlate theoretical and practical applications. Salon Business basics are included, as well as applicable Illinois statutes and professional regulations. A portfolio and writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): High School Diploma OR GED Certificate required. Student must be a graduate of an accredited cosmetology school AND possess an active State of IL Cosmetology License. Proof of 2 years of salon experience OR Grade of C or better in COSME

4 Lecture Hours. 4 Lab Hours. 8 Credit Hours.

Offered at: TR

Cosmetology 224 Principles and Practice in Cosmetology Education

This course is conducted under the direct supervision of an Illinois licensed Cosmetology Teacher. It prepares the student teacher in presenting theoretical and practical demonstrations to students in the basic cosmetology curriculum. These demonstrations include the use of educational materials used in the classroom; use of technology in the classroom; and teaching techniques and technical skills in hair cutting procedures, using the clipper and the razor, procedures for analyze the skin, care of the skin and using massage and the skin care machine, and the development of hair styling techniques. A portfolio and writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better OR concurrent enrollment in COSMET 223.

4 Lecture Hours. 4 Lab Hours. 8 Credit Hours.

Offered at: TR

CRIMINAL JUSTICE (0080)**Criminal Justice 102****Administration of Criminal Justice**

Operation of the agencies of criminal justice: police, prosecution, courts, correctional institutions, probation and parole. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: CRJ 901

Criminal Justice 104**Street Law**

The course contains information and activities designed to provide students with the ability to analyze, evaluate and understand legal issues related to business transactions, landlord and tenant relations, marriage and divorce, and constitutional issues like procedural and substantive due process. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA KK OH HW

Criminal Justice 114**Administration of Juvenile Justice**

Studies in the etiology of juvenile delinquency, analysis of the agencies of control of juvenile behavior, and the roles of courts and correctional institutions in the administration of juvenile justice. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: CRJ 914

Criminal Justice 151**Practice of Probation and Parole**

Development, philosophy, organization and administration of probation and parole; survey of principles, investigation, supervision, treatment and utilization of community resources to rehabilitate and reintegrate the offender into society. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Criminal Justice 155**Introduction To Corrections**

This course covers the history and development of corrections at the local, state and federal levels with emphasis on the goals, structure, and operations of correctional institutions. Included are alternatives to incarceration and the future of corrections within the American criminal justice system. This course is equivalent to the Illinois Articulation Initiatives Criminal Justice course numbered CRJ-911. Written assignments, as appropriate to the discipline, the course.

Prerequisite(s): Grade of C or better in Criminal Justice 102, OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK OH HW WR

IAI: CRJ 911

Criminal Justice 170**Scope & Purpose of Private Policing**

Study of private policing as an extension of law enforcement in business, industry or mercantile establishments; applications within civil law enforcement; role of the security officer; analysis and development of US public and private policing. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA

Criminal Justice 172**Management & Supervision for Private Policing**

Study of police supervisory and management principles; concepts of organization, communication, planning and human relationships. Analysis of problems and responsibilities in private security at middle-management; role of security director from behavioral standpoint. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA

Criminal Justice 173**Issues & Problems of Private Policing**

Analysis of current issues and occupational aspects of private policing; implementation of federal, state and local government recommendations applied to private policing. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA

Criminal Justice 174**Law For Private Police**

Survey of criminal law and applications for the private police industry; substantial criminal law, rules of evidence, criminal court procedures, court presentation; analysis of current civil court actions relating to private security. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA

Criminal Justice 202**Issues In Criminal Justice**

Critical issues related to crime and urban society; analysis and evaluation of documents in the field of Criminal Justice. Consideration of newly proposed reforms and the method of implementing these reforms. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Criminal Justice 211**Intro To Investigation**

Intensive study and analysis in investigative procedures; strategy and tactics of obtaining and analyzing evidence through testimonial evidence, physical evidence and records; reconstructing the crime; preservation of evidence and case preparation. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK OH TR HW WR

Criminal Justice 215**Terrorism**

Detailed study of terrorism, counter terrorism, terrorist personalities, and terrorist groups, including types, tactics, and trends on a worldwide scale as well as domestically. This course also examines the issues of prevention, civil liberties, nation building, and homeland security. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK

Criminal Justice 221 **Police Organization & Management**

Police organization as a means by which police goals are achieved. Variations in organizational patterns resulting from differing and changing objectives of police service. Analysis and evaluation of urban law enforcement problems and procedures. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK OH TR HW WR

Criminal Justice 222 **Professional Responsibility**

Examination of professional ethics and legal responsibilities of the criminal justice practitioner. Legal accountability of criminal justice practitioners; principles and techniques of stress management for maintenance of performance and health. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK OH TR HW WR

Criminal Justice 234 **Criminal Law & Procedure**

Analysis of the nature of substantive criminal law, with emphasis on its historical and philosophical development in the United States. Examination of constitutional rights of the defendant, as these relate to arrest, rules of evidence, and courtroom procedure at pre-trial and trial level. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Criminal Justice 250 **Introduction To Criminology**

This course covers the basics of criminology, criminological theories, principles and concepts, and the history and development of criminology. Included is the study of society's reaction to crime and criminals as well as those organizations and agencies designed to combat crime. This course is equivalent to the Illinois Articulation Initiatives Criminal Justice course numbered CRJ-912. Written assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Criminal Justice 102, OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK OH HW WR

IAI: CRJ 912

Criminal Justice 256 **Constitutional Law**

Study of the Fourth, Fifth, Sixth, Eighth and Fourteenth Amendments to the United States Constitution, as these govern police and court procedures and the rights of citizens. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK OH TR HW WR

Culinary 700 **College Success Hospitality Perspective**

This course introduces students to the expectations of the college community and to the academic skills that promote success during their college career. Through coursework, students will develop strategies to improve their academic and professional skills. Students will also learn the importance of taking personal responsibility for their academic and career choices. Topics will be approached from a variety of interdisciplinary perspectives that focus on connecting individuals to their local and global communities in the culinary and hospitality industries. Through

assignments that integrate community engagement, service learning, and hospitality and/or on-campus service projects, students will make connections between their coursework and their lives. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096 AND Math 098.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

CULINARY (0330)

Culinary 701 **Intro To Food Service I**

This class is an introduction to the food service industry (history, organization and future challenges), career opportunities, standards of professionalism, instruction in principles, procedures and use of basic equipment; basic food and kitchen safety, beginning fundamentals and concepts of cooking. An emphasis will be placed on culinary math and measurements as well as culinary terminology. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096 and Math 098; Concurrent enrollment in 330CUL 703, 705, and 708.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Culinary 703 **Food Sanitation & Safety I**

Safe food handling is expected at all times when working in a commercial kitchen for the safety of the guests. This class will cover topics such as preventing food-borne illness, HACCP procedures, facility sanitation, legal guidelines, kitchen safety, safe food preparation, storing, and reheating guidelines to introduce the student to kitchen safety and sanitation. Writing assignments, as appropriate to the disciplines, are part of the course.

Prerequisite(s): Eligibility for English 096 and Math 098; Concurrent enrollment in 330CUL 701, 705, and 708.

1 Lecture Hour. 1 Credit Hour.

Offered at: KK

Culinary 705 **Chef's Training I-Section A**

This course covers basic knife skills, proper station set-up and sanitation, classical cooking terminology, standard cooking methods, stock preparation, sauce preparation and heat transfer methods of steaming, sweating and roasting. Emphasizes professionalism, team work and career readiness as basic elements for success. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096 and Math 098, Concurrent enrollment in 330CUL 701,703 and 708.

1 Lecture Hour. 9 Lab Hours. 4 Credit Hours.

Offered at: KK

Culinary 706 **Introduction to Garde Manger**

Introduction to Garde Mangerr (the cold kitchen) where the student will produce items such as cold soups, cold sauces, cheese plates, fruit plates, vegetable crudité, salads, sandwiches and condiments. Creative and attractive food presentation will include but will not be limited to color blocking, garnishing, knife cuts and spatial awareness. Includes sanitation as it applied to cold food preparation ready-to-eat foods and the equipment in the Garde Manger kitchen. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 330CUL 701, 330CUL 703, 330CUL 705, and 330CUL 708 or Consent of Department Chairperson.

1 Lecture Hour. 9 Lab Hours. 4 Credit Hours.

Offered at: KK

Culinary 708 Chef's Training I-Section B

This class continues building on Chef Training I – A with a focus on the standard cooking and heat transfer methods of frying, broiling, poaching, and braising. Includes practicing knife skills, proper station set-up, classical cooking terminology and culinary math and measurements. Students will be introduced to basic plate presentations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096 and Math 098; concurrent enrollment in Culinary 701, 703, and 705.

1 Lecture Hour. 9 Lab Hours. 4 Credit Hours.

Offered at: KK

Culinary 709 Advanced Garde Manger

This course is designed to provide the student with advanced garde manger skills focusing on the creation and production of pates, galantines, roulades, sausage, hors d'oeuvres, and canapes. Canning and preserving are also covered. Both individual plate and buffet presentations will be included to stress the visual appeal of food. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 330CUL 701, 330CUL 703, 330CUL 705, and 330CUL 708 or Consent of Department Chairperson.

1 Lecture Hour. 9 Lab Hours. 4 Credit Hours.

Offered at: KK

Culinary 710 Plant Based Cooking

Students will be in the kitchen for this lab class creating flavor profiles for complete meals while utilizing health-supportive cooking methods and plant based ingredients. Common ingredients such as grains, beans, tofu, tempeh, seitan, vegetables and fruits will be incorporated into recipes providing for well-rounded meals suitable for following a plant-based diet. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 330CUL 701, 330CUL 703, 330CUL 705, and 330CUL 708 or consent of Department Chairperson.

1 Lecture Hour. 9 Lab Hours. 4 Credit Hours.

Offered at: KK

Culinary 714 Nutrition for Chefs

This course provides the basic principles of nutrition and their relation to food preparation. Nutrition's role in culinary techniques, ingredient selection, flavor development and creation of healthful menu options will be applied in lecture and experiential learning. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 330CUL 701,703,705 and 708 or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Culinary 717 Food Costing & Control

This course introduces common financial indicators in the food service industry. It includes topics such as profit and loss statements, food and beverage costs, purchasing and receiving, pricing a menu, measuring labor and managing from an operational and profitable perspective. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096 and Math 098 or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Culinary 721 Entree Preparation

Study of principles, methods and techniques involved in the preparation of international cuisines with an emphasis on specialized cooking methods and flavor profiles; practical experience in banquet and buffet production with an emphasis on presentation techniques and design; proper and safe use of tools, materials and quantity foodservice equipment. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 330CUL 701,703,705, and 708 or Consent of Department Chairperson. Concurrent enrollment in 330CUL 707 and 723.

2 Lecture Hours. 15 Lab Hours. 7 Credit Hours.

Offered at: KK

Culinary 723 Food Service Management

Instruction in food service management and executive responsibility in all facets of the food service industry. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096 Math 098 or Consent of Department Chairperson. Concurrent enrollment in 330CUL 707 and 721.

4 Lecture Hours. 3 Lab Hours. 5 Credit Hours.

Offered at: KK

Culinary 728 Restaurant Service

This course is held within a restaurant environment in which students will work for half of the semester in the kitchen and the other half in the dining room to be able to have a well-rounded operational experience. Students will utilize the cooking skills that they have learned in prior lab classes to effectively cook in a restaurant setting with a focus on guest satisfaction, speed and plate consistency. Food safety and sanitation, cooking techniques, plate presentation and professionalism are also included. When working in the dining room, students will rotate through positions typically found in a restaurant while creating a positive dining experience. Professionalism, teamwork, and following set service standards are included. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096 and Math 98. Grade of C or better in (330CUL 701, 330CUL 703, 330CUL 705, and 330CUL 708), or Consent of Department Chairperson.

1 Lecture Hour. 18 Lab Hours. 7 Credit Hours.

Offered at: KK

Culinary 730 International Cooking

This class studies the principles and techniques involved in the preparation of cuisines from around the world with an emphasis on specialized cooking methods and flavor profiles found in the regions and countries being studied. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 330CUL 701, 330CUL 703, 330CUL 705, and 330CUL 708 or consent of Department Chairperson.

1 Lecture Hour. 9 Lab Hours. 4 Credit Hours.

Offered at: KK

CYBERSECURITY (0162)

Cybersecurity 101 Networking Essentials

This course is designed to provide essential knowledge in networking that is required for further study in Cybersecurity. It will explore the areas of knowledge necessary to understand general networking essentials and lay the foundation for further study and coursework. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: WR

Cybersecurity 102 Information Security Essentials

This course covers essential terminology, concepts, principles, and practices in Information Security and Assurance. The course balances a mix of technical and non-technical components for building, managing, and maintaining secure systems. The course introduces students to risk management, security policies, and prevailing controls and countermeasures used to minimize the risk of security breaches and intrusions. The course also provides an overview of the current trends in Information Security and the challenges faced when attempting to build secure systems. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade C or better in CIS 116 or COMPSFI 101 or NET TEC 121, or Consent of Department Chairperson

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: WR

Cybersecurity 202 Cybercrime and Incident Response

This course covers the history, evolution, and the prevailing types and forms of cybercrime in our interconnected world. Students learn about the weakest links cybercriminals tend to exploit. The course covers the different types of cybercrime activities, intrusions and breaches, as well as, cybercrime terminology. Students learn how programming weakness/flaws or human errors make systems and applications vulnerable to cybercrime. The course introduces digital forensics and the application of forensic techniques to investigate cybercrime and respond to incidents and breaches. Writing assignments, as appropriate to the discipline, are part of the course/.

Prerequisite(s): Grade C or better in COMPSFI 101 or NET TEC 121, or Consent of Department Chairperson

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: WR

Cybersecurity 203 Financial Cybercrime

This course is one of the requirements for Computer Security and Forensic Investigation certificate program /plan 297. Explores the various types of economic cybercrime, the far-reaching consequences of such crime, and some recovery and countermeasures. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in COMPSFI 102 and COMPSFI 202.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Cybersecurity 204 Intro to Computer Forensics and Law

This course is one of the requirements for Computer Security and Forensic Investigation certificate program/plan 297. Designed to provide an introduction to the world of computer forensics and the attendant legal issues concerning privacy and electronic evidence. Explores computer forensics as the science of collecting, preserving and analyzing data from computers so they can be admissible at a company discipline hearing or in a court of law. Surveys problems of maintaining a secure technological environment, protecting the identity of individuals, as well as protecting confidential information. In addition, it will introduce techniques used in the collection and analysis of evidence. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in COMPSFI 102 and COMPSFI 202.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Cybersecurity 205 Computer Forensics Technology

This course is one of the requirements for the Computer Security and Forensic certificate Investigation program/plan 297. A continuation of COMPSFI 204. An in-depth, hands-on analysis and practice of computer forensics investigation techniques, technology, and procedures in a setting that simulates a real network environment. Demonstrates how to manage investigations from start to finish, how to use computer forensic technology to conduct such investigations, and how to present collected information to investigations, and how to present collected

information to attorneys and courts. Follows six areas in computer forensic investigation: strategy, documentation techniques, use of technology, industry procedures, courtroom techniques, and enforcement developments and trends. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in COMPSFI 203 and COMPSFI 204.

6 Lab Hours. 3 Credit Hours.

Offered at: WR

Cybersecurity 206 Internet Vulnerabilities, Criminal Activities & Investigative Procedures

This course is one of the requirements of the Computer Security and Forensic Investigation program/plan 297. An overview of appropriate, lawful investigative procedures for the collection, documentation, preparation and presentation of evidence from internet cybercrime investigations. The lab course focuses on the areas of search and seizure, the use of some evidence analysis and presentation software and other appropriate software tools. Writing assignments as appropriate to the discipline are part of the course.

Prerequisite(s): Grade of C or better in CIS 158, or Consent of Department Chairperson.

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: WR

Cybersecurity 213 Information Security Technology

Provides a hands-on review and analysis in a laboratory environment of the following six major areas of information security technology: firewalls, intrusion detection, virus detection, encryption, authentication/authorization, and trending/tracking/logging/analysis. Provides an understanding of each technology on a conceptual level as well as an understanding of specific technology brands. Demonstrates how to build and manage a complete information security architecture within a corporate computing environment. Writing assignments, as appropriate the discipline, are part of the course.

Prerequisite(s): Grade of C or better in COMPSFI 102 and COMPSFI 202.

6 Lab Hours. 3 Credit Hours.

Offered at: WR

Cybersecurity 214 Information Security Systems Analysis

This course is one of the requirements for Computer Security and Forensic Investigation certificate program/plan. Continuation of COMPSFI 103. Identification of classes of security systems and monitoring procedures. Introduces security and monitoring procedures and critical elements of effective security systems. Provides an overview of the challenges faced when attempting to build a secure security systems, and explores possible counter-measures to intrusions. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and Grade of C or better in CIS 120, or Consent of Department Chairperson.

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: WR

Cybersecurity 215 Information Security Domain

An overview of the critical information security domains. The Common Body of Knowledge (CBK) in information security is extensive and requires a thorough understanding of the security discipline or domains. This course will cover what each domain is, what area it encompasses, and how it is integral to the information security process. Provide an excellent preparation for those who wish to pursue certification as an information security professional. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in COMPSFI 213.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Cybersecurity 216 Info Security Program Management

This capstone course is one of the requirements for the Computer Security and Forensic Investigation certificate program/plan 297. Explores the critical areas of security policies and procedures that govern how an institution views the importance, often underestimated, of securing the network environment and the relationship between those policies and procedures and the network security layers that need to be protected. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in COMPSFI 102 and 214.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Cybersecurity 231 Internetworking Security

This course provides a detailed understanding of prevailing network security principles and practices. It covers strategies, tool and configurations used to secure network devices and network infrastructures. Students develop the skills necessary to secure routers and switches, and learn how to apply security controls and countermeasures to minimize security risks that modern network infrastructures face. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in NET TEC 122, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA OH TR WR

DANCE (0097)

Dance 110 Ballet I

Introduction to the technique and principles of classical ballet. Emphasizes instruction through the fundamentals of basic barre, center skills, positions, traveling sequences, placement and terminology. The history of ballet and aesthetic standards of dance are explored through movement, lecture, and concert attendance. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: HW

Dance 113 Jazz I

Introduction to the technique and principles of jazz dance. Emphasizes instruction through a fusion of American jazz techniques and styles. Fundamentals include basic floor skills, concepts of weight, traveling sequences, placement, and terminology. The history of jazz dance and aesthetic standards of dance are explored through movement, lecture, and concert attendance. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: HW

Dance 115 Modern I

Introduction to the technique and principles of modern dance. Emphasizes instruction through a fusion of American modern techniques and styles. Fundamentals include basic floor skills, concepts of weight, traveling sequences, placement, and terminology. The history of modern dance and aesthetic standards of dance are explored through movement, lecture, and concert attendance. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: HW

Dance 117 Hip Hop I

Introduction to the technique and principles of hip-hop dance. Emphasizes instruction through a fusion of American hip-hop techniques and styles.

Fundamentals include basic floor skills, concepts of weight, traveling sequences, placement, and terminology. The history of hip-hop dance and aesthetic standards of dance are explored through movement, lecture, and concert attendance. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: HW

Dance 119 World I

Introduction to the technique and principles of world dance styles from Latin America, Africa, the Middle East, and Asia. Emphasis instruction through a fusion of world dance techniques and styles. Fundamentals include basic floor skills, concept of weight, traveling sequences, placement, and terminology. The history of world dance and aesthetic standards of dance is explored through movement, lecture, and concert attendance. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course, Not more than an accumulated six credit hours will be counted towards graduation.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: HW

Dance 210 Ballet II

Further develop the technique and principles of classical ballet. Emphasizes instruction through the mastery of intermediate barre, center skills, positions, traveling sequences, placement, and terminology. The history of ballet and aesthetic standards of dance are explored through movement, lecture, and concert attendance. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in DANCE 110 or consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: HW

Dance 213 Jazz II

Further develop the technique and principles of jazz dance. Emphasizes instruction through a fusion of American jazz techniques and styles. Mastery of intermediate center floor skills, concepts of weight, traveling sequences, placement and terminology are required. The history of jazz dance and aesthetic standards of dance are explored through movement, lecture, and concert attendance. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in DANCE 113 or consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: HW

Dance 215 Modern II

Further develop the technique and principles of modern dance. Emphasizes instruction through a fusion of American modern techniques and styles. Mastery of intermediate center floor skills, concepts of weight, traveling sequences, placement, and terminology are required. The history of modern dance and aesthetic standards of dance are explored through movement. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in DANCE 115 or consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: HW

Dance 217**Hip Hop II**

Further develop the technique and principles of hip-hop dance. Emphasizes instruction through a fusion of American hip-hop techniques and styles. Mastery of intermediate center floor skills, concepts of weight, traveling sequences, placement, and terminology are required. The history of hip-hop dance and aesthetic standards of dance are explored through movement, lecture, and concert attendance. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in DANCE 117 or consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: HW

Dance 219**World II**

Further develop the techniques and principles of world dance styles from Latin America, Africa, The Middle East, and Asia. Emphasizes instruction through a fusion of world techniques and styles. Mastery of intermediate center floor skills, concepts of weight, traveling sequences, placement, and terminology are required. The history of world dance and aesthetic standards of dance is explored through movement, lecture, and concert attendance. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course. Not more than an accumulated six credit hours will be counted towards graduation.

Prerequisite(s): Grade of C or better in DANCE 119 or consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: HW

DENTAL HYGIENE (0100)**Dental Hygiene 112****Concepts of Preventive Therapy I**

Orientation to the profession of dental hygiene and the role of the dental hygienist in the educational and therapeutic oral health services provided in the development of an individualized plaque control program. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission to the Dental Hygiene Program/Plan 222.

2 Lecture Hours. 2 Credit Hours.

Offered at: MX

Dental Hygiene 121**Principles of Dental Hygiene I Lecture**

Fundamental theories and skills necessary to perform oral prophylaxis treatment. Principles of disease transmission, infection control, instrumentation, and the examining and charting of oral conditions will be presented. Concepts and procedures will be systematically presented through the lecture component and applied in the clinical laboratory sessions. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admissions into the Dental Hygiene Program and Successful completion of DENTHYG 112

2 Lecture Hours. 2 Credit Hours.

Offered at: MX

Dental Hygiene 122**Principles of Dental Hygiene II Lecture**

Systematic presentation of additional theories and skills necessary to perform an oral prophylaxes and supplementary techniques. Emphasis will be placed on additional principles of instrumentation, instrument sharpening techniques, polishing technique, use of fluorides, taking alginate impressions, comprehensive periodontal evaluation, dental and periodontal charting, blood pressure measurement, medical emergencies in the dental office, classification of dental caries, use of phase microscope, and dental hygiene planning. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in DENTHYG 121 and DENTHYG 123

2 Lecture Hours. 2 Credit Hours.

Offered at: MX

Dental Hygiene 123**Principles of Dental Hygiene I Lab**

Companion course designed for the application of concepts presented in Dental Hygiene 121. Practice provided in the pre-clinical laboratory setting. Instrumentation skills are performed on typodonts and on student partners to a specified standard of competency. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in DENTHYG 112 and concurrent enrollment in DENTHYG 121

6 Lab Hours. 2 Credit Hours.

Offered at: MX

Dental Hygiene 124**Principles of Dental Hygiene II Lab**

Companion course designed for the application of concepts presented in Dental Hygiene 122 within the laboratory/clinical setting. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in DENTHYG 121 and DENTHYG 123 and concurrent enrollment in DENTHYG 122

9 Lab Hours. 3 Credit Hours.

Offered at: MX

Dental Hygiene 125**Nutrition And Biochemistry**

An introductory study to provide an integrated background of the fundamental principles of general biochemistry, metabolism, oral biochemistry and nutrition. Particular reference is made to the molecular components of cells, their chemical processes, the biological basis of dental disease, and the clinical application of nutritional theory on the counseling of dental patients. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admissions into the Dental Hygiene Program

2 Lecture Hours. 2 Credit Hours.

Offered at: MX

Dental Hygiene 126**Dental Radiology**

The application of the fundamental principles of radiology in the study of teeth and surrounding structures. Provides pre-clinical laboratory and beginning clinical experience in exposing, processing, mounting, and basic interpretation of dental radiographs. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in DENTHYG 131 and DENTHYG 133

2 Lecture Hours. 3 Lab Hours. 3 Credit Hours.

Offered at: MX

Dental Hygiene 130**Dental Materials**

Introduces the student to the basic concepts of material science and physical properties while gaining practical experience in the manipulation of restorative materials used in dental hygiene practice. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admissions into the Dental Hygiene Program

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: MX

Dental Hygiene 131 Oral Structures & Function

Introduction to the microscopic, embryologic and morphologic characteristics of the cells, tissues and structures associated with the oral cavity. Emphasis is placed on the development, structure and function of periodontal tissues, external and internal morphology of the teeth and basic concepts of occlusion. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission to the Dental Hygiene program/plan 222 and Grade of C or better in Biology 226, and Biology 227, and Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Dental Hygiene 132 General/Oral Pathology and Diagnosis

A survey of general and oral pathology with emphasis on diseases and their manifestations in the oral cavity. Recognition and detection of such deviations from normal are based on the clinical signs and symptoms, and an introduction to the art of differential diagnosis of lesions occurring in and out the oral cavity. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in DENTHYG 131 and 133.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Dental Hygiene 133 Head And Neck Anatomy

This course consists of lectures, readings, study of models and pro-section that will introduce the student to the gross anatomical structure and function of the human head and neck including the face, oral cavity, and deep structure of the face. Topics in embryology will be discussed. Implications and correlations will be discussed. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admissions into the Dental Hygiene Program

2 Lecture Hours. 2 Credit Hours.

Offered at: MX

Dental Hygiene 135 Concepts of Preventive Therapy II

Continuation of DENTHYG 112- Concepts of Preventive Therapy I-with an understanding of oral health management of special needs patients, older population, the medically compromised, and the pediatric patient. This course emphasizes the concepts of disease management and prevention on plaque control, and therapeutic care to maintain optimum oral health. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in DENTHYG 112

1 Lecture Hour. 1 Credit Hour.

Offered at: MX

Dental Hygiene 200 Summer Clinic

A continuation of dental hygiene theory and clinical concepts applicable to dental hygiene practice. Emphasis will be placed upon specific topics pertinent to acquiring clinical expertise. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Dental Hygiene 122 and Dental Hygiene 124.

1 Lecture Hour. 6 Lab Hours. 3 Credit Hours.

Offered at: MX

Dental Hygiene 202 Critique of Dental Literature

Introduction to the fundamental concepts and skills needed to understand, interpret and critique professional literature. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission to the Dental Hygiene Program/Plan and Consent of Department Chairperson.

1 Lecture Hour. 1 Credit Hour.

Offered at: MX

Dental Hygiene 233 Expanded Functions

Principles and techniques utilized in comprehensive dental hygiene care. Instruction will include the mixing and placement of amalgam, composite, and other restorative materials. Special attention is paid to pain management with the use of local anesthesia and conscious sedation agents commonly utilized in the dental treatment setting. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission to the Dental Hygiene program/plan 222 and Grade of C or better in Dental Hygiene 131, and Dental Hygiene 133.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: MX

Dental Hygiene 235 Community Dental Health I

An introduction to the current principles and issues in community health and their relationship to the delivery of dental care to the public sector. The role of the dental hygienist in the community disease prevention and health promotion activities will be emphasized. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission to the Dental Hygiene Program/Plan and Consent of Department Chairperson.

2 Lecture Hours. 2 Credit Hours.

Offered at: MX

Dental Hygiene 241 Dental Pharmacology

This course introduces a study of principles of pharmacology, characteristics of the major drug groups, and their utilization in medicine and dentistry. Emphasis is placed on drugs which have an impact on dental practice and drugs which are utilized in dental practice.

Prerequisite(s): Admission to the Dental Hygiene Program and Consent of Department Chairperson

2 Lecture Hours. 2 Credit Hours.

Offered at: MX

Dental Hygiene 243 Periodontics

A lecture course which includes the etiology, classification, symptomatology, diagnosis, treatment, and prognosis of periodontal disease. Emphasis will be placed on the phases of periodontics pertinent to a dental hygienist. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Dental Hygiene 121.

2 Lecture Hours. 2 Credit Hours.

Offered at: MX

Dental Hygiene 244 Periodontics for Dental Hygienist

A lecture course which includes the etiology, classification symptomatology, diagnosis, treatment and prognosis of periodontal disease. Emphasis will be placed upon the phases of periodontics pertinent to a dental hygienist. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better IN DENTHYG 121.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Dental Hygiene 250 Oral Diagnosis

An overview course given as an introduction to the art of differential diagnosis as it relates to lesions occurring in and about the oral cavity. Attention is directed to the discussion of pathology, history, radiographic and clinical appearance, prognosis and treatment. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission to the Dental Hygiene program/plan 222 and Consent of Department Chairperson.

2 Lecture Hours. 2 Credit Hours.

Offered at: MX

Dental Hygiene 251 Clinical Dental Hygiene I

Enrichment of skills in performing oral health services in the clinical setting. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Dental Hygiene 200.

1 Lecture Hour. 12 Lab Hours. 5 Credit Hours.

Offered at: MX

Dental Hygiene 252 Clinical Dental Hygiene II

Enrichment of skills in performing oral health services in the clinical setting. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Dental Hygiene 251.

1 Lecture Hour. 12 Lab Hours. 5 Credit Hours.

Offered at: MX

Dental Hygiene 254 Dental Specialties

This course is designed to acquaint the dental hygiene student with the various dental specialties and current trends in dental treatment. Guest lecturers, who are specialists in the field, will provide pertinent information and in some cases, supervise practical experiences during clinical rotation. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission to the Dental Hygiene program/plan 222, and Consent of Department Chairperson.

1 Lecture Hour. 1 Credit Hour.

Offered at: MX

Dental Hygiene 256 Community Dental Health II

A continuation of Dental Hygiene 235 developing, implementing and evaluating a community dental health program; utilization of health care services, epidemiology of dental disease, health care financing and health care delivery will also be discussed. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Dental Hygiene 235.

2 Lab Hours. 1 Credit Hour.

Offered at: MX

Dental Hygiene 258 Ethics And Jurisprudence

Provides the student with information on the personal and professional aspects of dental hygiene practice. Topics of discussion include: interpersonal and inter-professional communication, licensure and credentialing, elements of practice management, employment opportunities and strategies, ethics, legal responsibilities, and the professional organization. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission to the Dental Hygiene Program/Plan 222 and Consent of Department Chairperson.

2 Lecture Hours. 2 Credit Hours.

Offered at: MX

Dental Hygiene 260

Senior Seminar

The course is a review of all material found on the national, regional and state dental hygiene board examinations. The course is designed to prepare students for the Dental Hygiene Board examinations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission to the Dental Hygiene Program/Plan 222 and Consent of Department Chairperson.

2 Lecture Hours. 2 Credit Hours.

Offered at: MX

DIGITAL MULTIMEDIA (0138)

Digital Multimedia 105 2D Animation

This is a studio course that investigates the principles, practices, and philosophy of both traditional and 2D digital animation. Students will develop storyboards, drawings, flip books, and short computer animations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and Grade of C or better in Art 131 recommended or taken concurrently, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: HW

Digital Multimedia 115 Digital Audio

This is a studio course in which the primary orientation is the development of the student's portfolio. The course will investigate and develop soundtracks for video, film and multimedia. Students will develop soundtracks using digitized sounds, traditional foley effects, general midi music and dubbed effects, with the primary emphasis on the creation of a video and multimedia soundtrack. The use of professional sound and editing techniques will be emphasized. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in English 101.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK HW

Digital Multimedia 121 3D Modeling

This is a studio course whose primary orientation is the development of the student's portfolio. The course will introduce students to 3D graphics, principles of perspective and basic principles of 3D modeling. The theory of 3D on the computer will be explored. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in English 101 and DMD 168-1, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: HW

Digital Multimedia 130 Principles of Design and Development for Digital Media

Introduction to fundamental design and development principles within the context of digital media production. The course covers principles of design, color theory, typography, information architecture, and layout as it applies to digital media. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for ENGLISH 101, CIS 120 OR Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: HW

Digital Multimedia 131 Beg Multimedia Design & Dev

This course is an introduction to multimedia authoring using industry standard web authoring software applications. Students will use industry standard vector and WYSIWIG development software to design and develop web and desktop applications. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101, DMD 130, AND DMD 168, or Consent of Department Chairperson.

6 Lab Hours. 3 Credit Hours.

Offered at: HW

Digital Multimedia 168 Computer Art I

Students will be introduced to the concepts of computer art using representative programs and concepts from the profession. Students will be introduced to both raster paint/photo retouching programs and professional quality vector drawing programs. Students will also be introduced to the history of computer art. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101; or consent of department chairperson.

6 Lab Hours. 3 Credit Hours.

Offered at: HW

Digital Multimedia 179 Digital Video I

Students will learn digital camcorder operation, basic shooting and lighting techniques, basic editing, storyboard creation and video production planning. The history, theory and criticism of video will be discussed. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101, CIS 120 or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: HW

Digital Multimedia 205 Advanced Animation

This studio course is a continuation of the exploration and development of 2D animation. Students will develop observational and storytelling skills, utilizing and experimental animation techniques, including stop motion, live-action composting, cutouts, time-lapse, and drawn animation. Students will explore the use of animation as a creative tool, art form, and distinct personal language through character development, timing, movement study, camera movement, observation and soundtrack implementation. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in English 101, working knowledge of Macintosh platform, DMD 105 required, or Consent of Department Chairperson

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: HW

Digital Multimedia 221 3D Animation

This is a studio course whose primary orientation is the development of the student's portfolio. The course will develop the students understanding of 3D graphics, 3D dimensional modeling with an emphasis on movement, using systems and inverse kinematics and the use of constraints and bones. Advanced modeling will be used such as skins and mesh deformation. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in DMD 121 and 168, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: HW

Digital Multimedia 231 Intermediate Multimedia Design & Development

This course builds upon the technical and design skills learned in DMD 130 and 131. Focus in on design skills, intermediate programming skills, basic concepts of object oriented scripting, open source libraries, and designing for mobile devices. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in DMD 131 OR Consent of Department Chairperson.

6 Lab Hours. 3 Credit Hours.

Offered at: HW

Digital Multimedia 233 Advanced Multimedia Design & Development

This course builds upon the technical and design skills learned in DMD 231. Focus is placed on advanced scripting and programming skills along with team-based projects. Students will develop an understanding of team roles, time management, and legal and technical considerations for completing a project. Students work in teams to design and complete a client-based web site. This will provide an opportunity to plan, design, develop, and implement solutions for web/multimedia projects requiring students to analyze, integrate, and synthesize knowledge acquired from previous course work. Writing assignments, appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in DMD 231, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: HW

Digital Multimedia 268 Advanced Computer Art

This studio course develops an understanding of and skills in computer art at an advanced level. This course builds upon the basic skills developed in DMD 168 and explores more advanced features in both bitmap and vector painting and drawing programs. Students will learn to utilize filters, layers, channels, gradient mesh, advanced type techniques, color correction, and surface and texture creation. This course will also explore preparing images for the web and using vector and bitmap programs in tandem. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in DMD 168, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: HW

Digital Multimedia 279 Digital Video II

Builds upon the foundation of Digital Video I course. Students will learn advanced camera, editing, lighting, special effects, and audio techniques. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in DMD 115 OR DMD 179, OR Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: HW

Digital Multimedia 299 Portfolio & Professional Practice Seminar

Students develop an online portfolio using technical and design skills learned in prior multimedia classes. Professional issues related to the business of interactive design will be covered. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in DMD 130, DMD 131, DMD 231, AND DMD 233, OR Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: HW

ECONOMICS (0082)**Economics 133****Consumer Economics**

Principles of intelligent buying, investments, shelter, insurance, and basic commodities; development of consumer cooperative movement, advertising, fraud, monopoly, and competition, and role of government in promoting consumer welfare. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH

GE: Social & Behavioral Sciences

Economics 201**Principles Of Economics I**

Covers macro or income analysis; includes money, income determination, public finance, and economic development. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: S3 901 **GE:** Social & Behavioral Sciences

Economics 202**Principles Of Economics II**

Covers micro or price analysis; includes the markets, production function, income distribution, and international trade. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: S3 902 **GE:** Social & Behavioral Sciences

Economics 204**Money And Banking**

Economic history and operation of US monetary and banking systems; business cycles, international exchange, Federal Reserve System, and use of national fiscal policies as instruments of economic control. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ECON 201 and 202, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

GE: Social & Behavioral Sciences

EDUCATION (0083)**Education 101****Introduction To Education**

This course will provide an introduction to teaching as a profession in the American education system. The course offers a variety of perspectives on education including historical, philosophical, social, legal, and ethical issues in a diverse society. It includes organizational structure and school governance. A field experience is required. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH TR HW WR

Education 102**Using Technology in The Class**

Prepare pre-service and in-service teachers to integrate technology, including computer and multimedia software, into pre-K through 12th grade classes. Surveys concepts of technology use, provides hands-on experience with hardware and software, and addresses human, social, and ethical issues related to the use of technology in education. Meets national and state technology standards. Writing assignments as appropriate to the discipline are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH TR HW

Education 103**Students With Disabilities in School**

A survey course that presents the historical, philosophical and legal foundations of special education, as well as an overview of the characteristics of individuals with disabilities, the Individual with Disabilities Act (IDEA) and the services that are provided under this act, and the diversity of exceptional populations with implications for service delivery. Writing assignments as appropriate to the discipline are part of the course.

Prerequisite(s): Grade of C or better in EDUC 101, or PSYCH 207.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK TR WR

Education 203**Educational Psychology**

Assessment of aptitudes, capacities, interests, and achievements; and the educational implications of physical, emotional and social development. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in PSYCH 201, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK OH TR WR

Education 220**Theoretical Foundations of 2nd Language Acquisition and Learning**

This course is an introduction to the theoretical frameworks and educational research of English as a Second Language (ESL) and Bilingual Education (BE). It prepares students to analyze and evaluate the effectiveness of various ESL/BE program models across different contexts. Students will investigate the relationship between theory and practice and understand their role as advocates for English language learners. This course is part of an approved set of courses that fulfill the requirements leading to the Illinois State Board of Education (ISBE) Endorsement for ESL and/or Bilingual Education. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Completion of English 101 with a grade of C or better

3 Lecture Hours. 3 Credit Hours.

Offered at: TR

Education 221**Methods and Materials for Teaching ESL in PK-12**

This course explores methods and materials for teaching English language learners in ESL, bilingual, and mainstream PK-12 classrooms. With an emphasis on integration, students will learn to plan and implement English literacy and academic content area instruction. Students learn to recognize and practice strategies to differentiate standards-based instruction according to language proficiency. A variety of teaching resources and technologies are introduced, analyzed, and matched to diverse English language learners' needs. Meaningful connections with families and communities are discussed in relation to building culturally-responsive practices to support English language learners' achievement. This course is part of an approved set of courses that fulfill the requirements leading to the Illinois State Board of Education (ISBE) Endorsement for ESL and/or Bilingual Education.

Prerequisite(s): Completion of or concurrent enrollment in EDUC 220

3 Lecture Hours. 3 Credit Hours.

Offered at: TR

Education 222**Methods & Materials for Teaching ESL in PK-12 Bilingual**

This course prepares bilingual students to work with second language learners in PK-12 bilingual programs. It will examine research-based models of bilingual education and prepare students to successfully assess benefits and limitations of particular program designs for various schools or districts. Using both primary and target languages, students will learn how to assess content instruction, teach literacy, select instructional materials, and use a variety of assessment tools. Relevant local, state, and national standards and policies are introduced in relations to teaching and learning in bilingual programs. This course is part of an approved set of courses that fulfill the requirements leading to the Illinois State Board of Education (ISBE) Endorsement for Bilingual Education. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Completion of or concurrent enrollment in EDUC 220

3 Lecture Hours. 3 Credit Hours.

Offered at: TR

Education 223**Assessment of the Second Language Learner**

This course examines the various assessment issues affecting English language learners in a variety of educational settings. It introduces concepts, procedures, and tools that are associated with current practices used in the identification and placement of bilingual and ESL learners. Students identify and differentiate between language needs and developmental needs. Students learn to recognize the impact of context on second language learners' performance and assess their content instruction in both primary and target languages in order to accurately plan and inform their future instruction. This course is part of an approved set of courses that fulfill the requirements leading to the Illinois State Board of Education (ISBE) Endorsement for ESL and/or Bilingual Education. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Completion of or concurrent enrollment in EDUC 220

3 Lecture Hours. 3 Credit Hours.

Offered at: TR

Education 224**Cross Cultural Studies for Teaching Limited English Proficient Students**

This course focuses on the relationship between language and culture as it relates to the needs and challenges of English language learners in ESL, bilingual, and mainstream PK-12 classrooms. It prepares students to examine cultural, political and social factors of English language learner's identity and its impact on the process of teaching and learning. Students will investigate how learning and communication styles affect teacher expectations on student achievement. Students will learn to utilize practical resources that support positive relationships between school, family and the community to provide culturally responsive instruction. This course is part of an approved set of courses that fulfill the requirements leading to the Illinois State Board of Education (ISBE) Endorsement for ESL and/or Bilingual Education. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Completion of English 101 with a grade of C or better

3 Lecture Hours. 3 Credit Hours.

Offered at: TR

Education 225**Bilingual and ESL Practicum**

This course serves as the student's culminating experience for the Bilingual/English Second Language Program (ESL). Students will demonstrate competency in effectively teaching Bilingual/English language learners in the classroom. Students will participate in supervised authentic teaching and learning environments. The course requires both formal and informal observations, demonstration of support for students as well as effective instructional strategies, learning activities and assessment techniques. Students will reflect on their experience. Students are evaluated during the practicum experience. The course requires 100 hours of clinical experience. This course is part of an approved set of courses that fulfill the requirements leading to the Illinois State Board of Education (ISBE) Endorsement for ESL and/or Bilingual Education. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Completion of EDUC 220, EDUC 221, EDUC 222, EDUC 223 with a grade of C or better

2 Lecture Hours. 1 Lab Hour. 3 Credit Hours.

Offered at: TR

Education 256**The American Public School**

Function of the school as a social institution; organization, administration, and finance of public education and the major educational issues and trends. Designed for general education students and for prospective teachers. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in SOC SCI 101, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: TR

Education 260**Principles of Practice in Elementary Education**

Organizational procedures, curriculum, principles of classroom management, and the role of the teacher in stimulating learning. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Education 269**Practicum in Elementary Education6 Wks.**

Students spend 20 hours per week, under supervision, as a teacher aide in primary grade classroom, 8 or 16 weeks; course includes 2-hour weekly seminar. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in CHLD DV 102 and CHLD DV 107 and EDUC 256 and Consent of Department Chairperson.

2 Lecture Hours. 20 Lab Hours. 3 - 6 Credit Hours.

Offered at: KK OH

Education 277**Philosophy**

Comparative study of philosophical views on the relationship of education to political institutions, social processes, material conditions and individual ideas. Designed primarily for future teachers; open to all students. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Education 299**Special Topics in Education**

Special Topics in Education will be discussed. New developments in research and practice including the use of technology in the classroom will be emphasized. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Course may be repeated up to three times when topics are different, and may count for a maximum of four variable credits. Consent of Department Chairperson required for repeatability.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

1 - 4 Lecture Hours. 1 - 4 Credit Hours.

Offered at: KK TR

ELECTRONICS (0033)**Electronics 116****Basic Electronics Dc/Ac**

Beginning course covering fundamentals in advanced electronics; basic laws of alternating and direct current circuit theory and operation of electronics devices and circuitry; including operation of modern electronic test equipment in practical laboratory application. This course covers essentially the same material as covered in Electronics 101 and Electronics 102 but in an accelerated, one semester approach. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Consent of Department Chairperson.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: TR

EMERGENCY MEDICAL TECHNICIAN (0120)**Emergency Medical Technician 100****Emergency Medical Technician - First Responder Training**

Development of basic skills in patient assessment and emergency medical care procedures required for minimizing patient suffering and the prevention of further injury. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Emergency Medical Technician 101**Emergency Medical Technician-Basic**

This course provides training to recognize the nature or extent of a patient's condition, administer appropriate emergency medical care to stabilize their condition and transport them safely to the proper medical facility. This course follows United States Department of Transportation (DOT) guidelines for EMT-B Training. Students will receive appropriate in class clinicals in addition to the course lecture, CPR training/certification and ten (10) hours working in a hospital clinical setting. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

6 Lecture Hours. 4 Lab Hours. 8 Credit Hours.

Offered at: MX

Emergency Medical Technician 221**Essentials of Paramedic Medicine I**

This course introduces the student to the roles of the paramedic. The content focuses on the introduction, assessment, management and stabilization of various patient conditions. This course follows the United States Department of Transportation Guidelines for Paramedic Training. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Successfully complete the Paramedic Program Application and Entrance Process; Concurrent enrollment in EMT 222 and Consent of Department Chairperson.

9 Lecture Hours. 9 Credit Hours.

Offered at: MX

Emergency Medical Technician 222**Paramedic Medicine Practicum I**

This course provides the student the opportunity to focus on the integration of the principles learned in EMT 221 and apply this knowledge into practical application. Includes: direct patient care; patient simulation, clinical rotations and ambulance ride time. This course follows the United States Department of Transportation Guidelines for Paramedic Training. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Concurrent enrollment in EMT 221 and Consent of Department Chairperson.

2 Lecture Hours. 6 Lab Hours. 5 Credit Hours.

Offered at: MX

Emergency Medical Technician 223**Essentials of Paramedic Medicine II**

This course provides continued instruction which was introduced in EMT 221. The content focuses on the assessment, management and stabilization of various patient conditions. This course follows the United States Department of Transportation Guidelines for Paramedic Training. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in EMT 221 and 222 and concurrent enrollment in EMT 224 and Consent of Department Chairperson.

9 Lecture Hours. 9 Credit Hours.

Offered at: MX

Emergency Medical Technician 224**Paramedic Medicine Practicum II**

This course provides the student the opportunity to focus on the integration of the principles learned in EMT 221, 222 (and concurrent course 223) and apply this knowledge in practical application. Includes: direct patient care; patient simulation, clinical rotations and ambulance ride time. This course follows the United States Department of Transportation guidelines for Paramedic Training. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in EMT 221 and 222 and concurrent enrollment in EMT 223 and Consent of Department Chairperson.

2 Lecture Hours. 6 Lab Hours. 5 Credit Hours.

Offered at: MX

Emergency Medical Technician 227**Paramedic Medicine Field Internship**

This course provides the student the opportunity to integrate, synthesize and apply the knowledge gained in EMT 221, 222, 223 and 224 toward in field situations. The student will be under the direct supervision of Paramedic Preceptors and will work with assigned Resource Hospitals as well as the Course Coordinator. This course will involve ambulance ride time. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in EMT 221 and 222 and 223 and 224 and Consent of Department Chairperson.

3 Lecture Hours. 6 Lab Hours. 6 Credit Hours.

Offered at: MX

ENGINEERING (0034)**Engineering 100****Elements of Engineering Drawing**

Drawing survey course for students in technical and engineering science major programs. Study of more advanced software "AutoCAD Mechanical Program"; also draw geometric figures, multi-view drawings, pictorial drawing, charts and graphs with emphasis on graphic elements of machine parts drawing. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: TR

Engineering 110**Introductory Drafting**

For students in non-technical and non-engineering science major programs. Learn to use "AutoCAD general program" to draw geometric figures, multi-view drafting, pictorial drawing, charts and graphs. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: TR

Engineering 111**Intro To The Engineering Profession**

History of engineering profession, engineer's role in a technological society, his/her work, and the relationship of engineering to other professions. Includes study of general and related areas, ethics and responsibility of engineers and guidance. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Credit Hours.

Offered at: **DA TR**

Engineering 115**Engineering Communications-Blueprint Reading**

For students in technical and non-technical curricula; principles and practices involved in interpretations of engineering graphics communications; emphasis on machine and structural graphic communications. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: **KK**

Engineering 131**Engineering Graphics & Intro to Design**

Graphics, both manual and computer-aided drafting and design. Introduction to design techniques in graphics and multi-view drawing, auxiliary views, selecting, tolerance dimensioning, and technical sketching. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): ENGR 111 or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: **DA TR**

Engineering 132**Descriptive Geometry**

Theory of projections. Solution by graphical methods of problems concerning the relation of points, lines, planes, and surfaces. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ENGR 131, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: **TR**

Engineering 190**Computer Applications In Engineering**

FORTRAN or C with emphasis in engineering and scientific programming languages such as FORTRAN and APT with emphasis on engineering problems encountered in design and manufacturing. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Mathematics placement test, or credit in Mathematics 207 and Engineering 131.

3 Lecture Hours. 3 Credit Hours.

Offered at: **DA TR WR**

Engineering 202**Advanced Drafting & Basic Machine Design**

Application of fundamental stress analysis to design of complete machine units involving machine elements such as shafts, springs, gears and screws, mechanical properties of materials and their significance in design; and classification of fits, specification of materials in use, and the manufacturing processes. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ENGR 131, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: **TR**

Engineering 206**Elements of Mechanics-Statics**

Rigid bodies, fluid statics, friction, moments of inertia, centroids, and virtual work. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Physics 235 AND Mathematics 208 OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: **DA**

Engineering 208**Strength of Materials for Architecture**

Concepts of stress and strain relationships; analysis of elementary stress distributions and deformations; study of axial loading, shear and bending moment diagram, and bending theory application. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Engineering 206.

3 Lecture Hours. 3 Lab Hours. 3 - 4 Credit Hours.

Offered at: **KK**

Engineering 215**Electrical Circuit Analysis**

Basic electric circuits, Nodal and Mesh analysis. Voltage and current laws, circuit analysis techniques and superposition. Operational amplifiers. RL, RC, and RLC circuits. Frequency response, resonance, AC power analysis. Writing assignments, as appropriate to the discipline are part of the course.

Prerequisite(s): Grade of C or better in Physics 236, Math 209 and credit or concurrent enrollment in Math 210 (Differential Equations).

4 Lecture Hours. 2 Lab Hours. 5 Credit Hours.

Offered at: **DA WR**

IAI: **EGR 931L**

Engineering 250**Engineering Projects**

Projects of experimental and analytical nature to stimulate creativity; recommended scheduling and integrating subject material with selected engineering courses. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ENGR 202, or Consent of Department Chairperson.

1 - 2 Lecture Hours. 1 - 2 Credit Hours.

Offered at: **DA KK**

ENGLISH (0035)**English 96****Aligned Reading and Composition**

ARC is an integrated reading and writing course designed to increase students' critical thinking, reading, and writing abilities and to promote their academic literacy for long-term success. To meet these ends, this course provides a structured, rigorous learning environment that nurtures student engagement through a shared, sustained classroom experience, and it fosters collaboration in a curriculum that respects students' individuality and humanity and that prepares them to meet college-level expectations. It also encourages students to invest in a network of support services and resources to enhance long-term academic and professional success. There will be extensive reading and analysis of college-level texts, frequent essay-writing, relevant discussion, and collaborative work. The course immediately precedes the General Education Communication sequence of English 101 and 102. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Successful completion of FS Levels (FS READ 1005 or FS WRITE 2002 or FS WRITE 2003) or Grade of C or better in English 98 or Reading 99, or placement exam score of CCC RTW score of 2 or higher, or consent of Department Chairperson.

6 Lecture Hours. 6 Credit Hours.

Offered at: **DA KK MX OH TR HW WR**

English 97**Written Communication Skills**

This course provides additional support to English 101 students, emphasizing critical thinking, reading, and writing appropriate to academic literacy. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): CCCRTW score of 4+, a grade of C or better in English 96/Intcomm 100/BOTH English 100 AND Reading 125, or consent of department. All students enrolled in a section of English 097 MUST also register for the corresponding section of English

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

English 98**Composition**

Elements of reading, writing and speaking basic English. Writing assignments, as appropriate to the discipline, the course.

Prerequisite(s): Eligibility for English 098 by placement test scores or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

English 99**English ARC: Accelerated Reading and Composition**

ARC is an integrated reading and writing course designed to increase students' critical thinking, reading, and writing abilities and to promote their academic literacy for long-term success. To meet these ends, this course provides a structured, rigorous learning environment that nurtures student engagement through a shared, sustained classroom experience, and it fosters collaboration in a curriculum that respects students' individuality and humanity and that prepares them to meet college-level expectations. It also encourages students to invest in a network of support services and resources to enhance long-term academic and professional success. There will be extensive reading and analysis of college-level texts, frequent essay writing, relevant discussions, and collaborative work. This course has strict requirements and high expectations and may only be repeated once. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ENGLISH 098 and READING 099, CCCRTW 2+, or COMPASS e-Write (5-6) and Reading (50 or >), or CCC Writing score of 3+ and Reading (50 or >), or Consent of Dept Chair.

6 Lecture Hours. 6 Credit Hours.

Offered at: WR

English 100**Basic Writing Skills**

Emphasis on individual expression in paragraph form, sentence clarity through knowledge of sentence structure, and correct word forms. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 100, or Grade of C or better in English 98, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

English 101**Composition**

Development of critical and analytical skills in writing and reading of expository prose. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: C1 900 GE: Communications

English 102**Composition**

Continuation of English 101. Introduces methods of research and writing of investigative papers. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in English 101.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: C1 901R GE: Communications

English 105**Business Writing**

Fundamentals of basic forms of business correspondence. Writing assignments, as appropriate to the discipline, the course.

Prerequisite(s): Grade of C or better in ENGLISH 101 or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH TR HW WR

English 107**Report Writing**

Letters and reports, methods of collecting and organizing data, and methods of presenting facts and ideas effectively. Writing assignments, as appropriate to the discipline, are part of the course.

1 - 3 Lecture Hours. 1 - 3 Credit Hours.

Offered at: DA KK HW WR

English 111**Introduction to Technical Communication**

Introduction to patterns of writing used in reports and letters for business, industry and technology. The course introduces many different approaches to solving specific communication problems and emphasizes critical thinking skills. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in English 101 or consent of department chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK HW

English 150**College Newspaper**

News reporting and writing, feature writing, makeup and editorial work; discussion of problems of policy and newspaper. Lab work correlated with publication of college newspapers. Students will carry out all the tasks involved in the writing, publication and distribution of the college newspaper. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated four hours will be counted toward graduation.

1 Lecture Hour. 1 Credit Hour.

Offered at: KK TR HW WR

English 151**News Reporting And Writing**

Survey of journalism, including news reporting and writing, feature writing, makeup and editorial work, business and advertising problems. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK TR HW WR

IAI: MC 919

English 152**Intro To Mass Communication**

Scope of modern journalism and dominant theories of communication; influences of the media in today's society. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK TR HW WR

IAI: MC 911

English 197**Communications Skills**

This course provides additional support to English 101 students emphasizing critical reading, academic writing, and standard English grammar. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 197.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK MX OH TR HW

English 201**Advanced Composition**

Intensified work in expository and argumentative writing for students who need to improve writing skills for professional careers. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in English 102.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX TR HW

English 241**Creative Writing**

Descriptive and narrative writing, concentrating on the writing of poetry, drama, and fiction. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ENGLISH 101, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

English 243**Creative Writing--Fiction**

Students will understand the structure and elements of fiction and the writing process, produce fully-developed works of fiction, and demonstrate an understanding of the critical terminology of the creative writer. Student will experiment with different approaches to plot, point-of-view, dialogue, voice, sequence and structure. A minimum of 25-30 finished pages of original work is recommended. Journals, a midterm, and a final exam may also be required. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in English 101.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

English 245**Creative Writing, Poetry**

Students will understand the structure and elements of poetry and the writing process, produce fully-developed works of poetry, and demonstrate an understanding of the critical terminology of the creative writer. Students will experiment with different approaches to form, voice, narration, imagery, translation, creative response, and revision. A minimum of 200-250 finished lines of original work is recommended. Journals and exams may also be required. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

English 276**Feature Writing for Newspapers & Magazines**

This course teaches feature writing for newspapers and magazines. Study and applied skill emphasize idea development for the extended feature article,

Prerequisite(s): Grade of C or better in English 101

3 Lecture Hours. 3 Credit Hours.

Offered at: TR HW WR

English 299**Special Topics In English**

Selected topics in English for students interested in further developing their understanding of specific authors, movements, genres, styles of writing, and forms of language; emphasis on linguistic structure, social contact, and interpretation. Writing assignments, as appropriate to the discipline, are part of the course.

1 - 3 Lecture Hours. 1 - 3 Credit Hours.

Offered at: DA OH TR HW WR

ENTREPRENEURSHIP (0143)**Entrepreneurship 201****Introduction to Entrepreneurship**

The interdisciplinary course introduces participants from various disciplines to the concept of sustainable entrepreneurship, a manageable process applicable across careers, work settings, and time. The course focuses on building entrepreneurial attitudes and behaviors that will lead to creative solutions within the business community and other organizational environments. Course topics include the history of entrepreneurship, the role of entrepreneurs and intrapreneurs in the 21st century global economy, and opportunity identification. The course will examine elements of creative problem-solving, development of an enterprise concept/model. Examination of feasibility studies, and the social/moral/ethical implications of entrepreneurship. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and Math 118, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK MX OH TR HW WR

Entrepreneurship 202**Opportunity Recognition and Development**

Participants will learn techniques and processes leading to opportunity (value) recognition to include the assessment of target market, current economic, social, and political climate that provide value opportunities for entrepreneurial ventures. Entrepreneurial opportunities will be assessed relative to personal strengths and weaknesses, financial, professional, social, and personal goals. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and Math 118, and Grade of C or better in ENTRE 201, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH TR WR

Entrepreneurship 203**Entrepreneurial Accounting & Finance**

An advanced entrepreneurial course structured to expose participants to accounting and financial methodologies in order to assess or predict the financial performance of their enterprise. Building upon their business concepts or existing enterprise, participants will be introduced to core financial and managerial accounting concepts: financial analysis techniques will enable them to prepare short and long-term financial operations plans, including cash requirements for enterprise startup and ongoing operations. Participants will be trained to use computerized accounting software as part of a managerial tool kit to support operation assessment. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and Math 118 and Grade of C or better in (ENTRE 201, and ENTRE 202), or Consent of Dept Chairperson.

4 Lecture Hours. 4 Credit Hours.

Offered at: KK OH TR WR

Entrepreneurship 204 Entrepreneurial Marketing & Sales

Introduces participants to marketing and personal selling strategies designed to support entrepreneurial development and growth. Participants will develop a theoretical and practical understanding of key marketing and sales strategies, including competitive product/services pricing, product/service promotion and distribution, customer and supplier qualification and the closing of sales transactions. This course will utilize the lecture and presentation format supplemented by interactive computer simulation to facilitate the participant's understanding of marketing and sales. Writing assignments, as appropriate to the discipline, are part of this course.

Prerequisite(s): Eligibility for English 101 and Math 118 and Grade of C or better in (ENTRE 201, and ENTRE 202), or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH TR WR

Entrepreneurship 205 Law for the Entrepreneur

This course is a required course in the Entrepreneurship program it provides the student with an overview of the formation and operation of business enterprises, exposes the students to types of business organization, contract law, leases, intellectual property and employment law. Students will learn about sole proprietorships, general and limited partnerships, limited liability companies and corporations, the benefits and disadvantages of each type of entity as well as the formation, dissolution and record keeping for each of these entities. Students will apply this information to business plans and will learn about other fundamental areas of law affecting business entities. Writing assignments, as appropriate to the discipline, are part of this course.

Prerequisite(s): Eligibility for English 101 and Math 118, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH TR WR

Entrepreneurship 206 Entrepreneurial New Venture StartUp

Participants will explore and identify problems that arise in the start-up phase of an entrepreneurial venture by developing a business plan/concept for a new venture and pitching it to a panel of judges. Alternatively, participants have the option to explore and identify the obstacles to success that occur while managing and operating a business venture in a computer-simulated environment. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (ENTRE 201, 202, 203, 204, and 205), or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH TR WR

ENVIRONMENT STUDIES (0026)

Environment Studies 101 Man & Environment I

Interdisciplinary study of humans, the environment and their interrelationships, including resources, processes, wastes, growth, change, values and individual responsibility and involvement; emphasis of ecology of Chicago metropolitan environment; individual in relation to urban systems and urban systems in relation to world environment. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: TR WR

IAI: L1 905 GE: Life Sciences

ENVIRONMENT TECHNOLOGY (0027)

Environment Technology 100 Introduction to Emergency Management

This introductory course examines the principles and concepts of emergency management. It presents an overview of the various disciplines involved in preparing for emergencies resulting from many different causes. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Environment Technology 101 Basic Skills in Emergency Management

This course provides a background in the various aspects of emergency management that would apply in any emergency. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Environment Technology 102 Leadership/Influence/Communication

Among the most important attributes of the successful emergency manager is the ability to fill a strong authority position that will aid them in accomplishment

Prerequisite(s): Grade of C or better in ENVR TC 100 and 101 or consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Environment Technology 103 Introduction to Emergency Planning

The importance of planning for emergencies before they occur has long been recognized as the key to minimizing their impact on society. This course is designed to provide a basic overview of the concepts of pre-planning needed to deal with a wide range of emergency situations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ENVR TC 100 and 101 or consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Environment Technology 104 Energy Systems Fundamentals

Course covers the basics of building envelopes, HVAC, lighting, insulation, glazing, plumbing and electrical systems, construction materials, and the surrounding environment. Incorporates blueprint/design fundamentals. Focus on construction engineering concepts. Introduces LEED and Energy Star programs, relevant environmental, health and safety principles, impacts, and regulatory implications. Provides a broad overview of energy use and efficiency in structures and why it matters. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Environment Technology 106 Introduction to Terrorism

Terrorism events present some special aspects to the world of emergency management. This course will examine the differences and similarities among emergencies resulting from terrorism versus natural disasters or accidents. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ENVR TC 100 and 101 or consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Environment Technology 107**Environmental Geology**

This course will examine human interactions with geologic processes and hazards, including earthquakes, volcanoes, landslides, subsidence, hydrology, and flooding; occurrence and availability of geologic resources, such as energy, water, and minerals; principals of land-use planning, pollution, and waste disposal, environmental impact, health, and law. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK TR WR

IAI: P1 908 **GE:** Physical Sciences

Environment Technology 108**Mitigation Management**

The impact of many types of emergencies can be reduced by taking certain actions prior to their occurrence that will lessen the damage when the emergency occurs. This course is designed to introduce the concept of mitigation, and the activities that will accomplish it in a wide range of potential emergency situations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ENVR TC 100 or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Environment Technology 109**Urban Agro-Ecology**

Introduction to the ecology of agriculture in urban settings addressing current local food production challenges. This course explores opportunities and efforts for more sustainable agriculture. Laboratory required. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 or Consent of Department Chairperson.

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: WR

Environment Technology 111**Basic Incident Command**

The Incident Command System provides a management framework for dealing with emergency situations. This course will provide the basic knowledge of what incident command is and how it functions, as well as the importance of having a strong central authority to oversee all aspects of responding to emergency situations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ENVR TC 102 or consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Environment Technology 112**Disaster Response & Recovery**

This course explores the basic nature of disasters, what they are, what steps must be taken to respond to them, and what is involved in recovering from them. This is a lab class that will culminate by conducting a day-long, campus wide disaster scenario response drill. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ENVR TC 100 and 101 or Consent of Department Chairperson.

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: WR

Environment Technology 113**Emergency Resource Management**

In planning for and responding to emergencies, many varied resources will be required. This course identifies what these various resources are and how to put them to use.

Prerequisite(s): Grade of C or better in ENVR TC 103 or consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Environment Technology 114**Renewable Energy Systems**

An introductory, work-skills course on principles, concepts, applications, and installation of renewable and alternative energy technologies. Distinguishes between technologies appropriate to industrial / commercial settings versus those intended for residential structures. Covers renewable energy sources (solar, wind, geothermal, etc.) as well as alternative technologies utilized for building operations (microturbines, fuel cells, combined heat and power). Designed to prepare tradesman for the installation of various technologies. Up to five (5) off-campus field trips to alternative energy installations will be scheduled as part of this course. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: WR

Environment Technology 115**Intro to Weapons of Mass Destruction**

This course provides an overview of chemical, biological, radiological, and nuclear (CBRN) weapons, and the threat of their use in terrorism events. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ENVR TC 100 and 101 or consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Environment Technology 121**Intro To Hazardous Materials Management**

This course is an overview of the environmental impacts resulting from hazardous materials such as asbestos, and their mismanagement. Emphasis is placed on understanding the sources responsible for soil, water, land, and air pollution and the environmental laws governing our natural resources, including asbestos. Emphasis is placed on storage and treatment practices, monitoring, sampling and handling techniques, damaging effects on humans, ecology and environment, as well as governmental regulations concerning soil, water, and air. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Environment Technology 122**Disaster Site Worker**

A course that focuses on the skills needed by workers who respond in the recovery phase of major disasters. This course includes the requirements for obtaining the OSHA Construction Worker 10-hour card, which is required for Disaster Site Worker certification. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ENVR TC 100 and 181 or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Environment Technology 123**Chemical Emergency Response**

This course is designed to meet the requirements of OSHA for workers that will respond to a hazardous chemical release. The course consists of the five levels of training required under 29CFR1910.120(q). Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Environment Technology 131 Environmental Health & Safety

Introduction to health and safety principles and skills needed to conduct field operations dealing with hazardous substances and meets initial training requirements of the Occupational Safety and Health Administration for workers engaged in hazardous waste operations. Course includes fundamentals of hazard recognition, toxicology, selection, use, and limitations of personal protective equipment, and safety procedures for conducting waste site use, and limitations of personal protective equipment. It consists of lectures and demonstrations, problem-solving exercises, discussions, and field exercises. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Environment Technology 141 Site Investigation & Sampling

Introduction to the techniques for monitoring and sampling of soil, water, and air. Emphasis is on site investigation procedures for contamination by hazardous materials; the use of specialized sampling equipment, its maintenance and repair, and record keeping for chain-of-custody and other documentation. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Environment Technology 144 Building Systems Maintenance

Course is comprised of seven energy efficiency topics in building operations and maintenance. Building Operators Certification is a professional development program in the energy and resource efficient operation of buildings to qualify operations and maintenance staff for certification. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: WR

Environment Technology 150 Introduction to Homeland Security

Students will learn the basic concepts, strategies, and practices of the Department of Homeland Security (DHS), for the purpose of learning how to gather and use intelligence data and its specific application in emergency operations. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Environment Technology 151 Intro to Environmental Laws & Policies

This course introduces the student to the United States legal system, and to the doctrines and statutes which regulate the production, treatment, transportation, and disposal of hazardous materials. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Environmental Technology 121.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Environment Technology 160 Intelligence Analysis-Security Management

This course examines intelligence analysis and its indispensable relationship to the security management of terror attacks, manmade disasters and natural disasters. It also explores vulnerabilities of our national defense and private sectors, as well as the threats posed to these institutions by terrorists, man-made disasters, and natural disasters. This course examines substantive issues regarding intelligence support of homeland security measures implemented by the United States and explore how the intelligence community operates. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ENVR TC 150, OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Environment Technology 170 Transportation and Border Security

This course provides students with an understanding of the variety of challenges inherent in modern transportation and border security challenges, as well as the technological solutions employed to address these challenges. The course covers the period from 9/11 to the present. The course explores the topics of seaports, ships, aircraft, airports, trains, train stations, trucks, highways, bridges, rail lines, pipelines, and buses. Students will be required to discuss the legal, economic, political, and cultural concerns and impacts associated with transportation and border security. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ENVR TC 160, OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Environment Technology 175 Hazardous Material Handling & Transportation

This course is designed to explore the regulations involving the transportation of hazardous materials and waste. It includes manifesting, generator and transporter standards, Department of Transportation hazard classes, placards, labels, markings, spill response, and driver responsibilities. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Environment Technology 190 Introduction to Animal Sciences

This is a survey course that will provide a firm biological and natural sciences background to students for understanding the principles important to the raising and management of livestock and companion animals. Students will have the opportunity to learn from animal industry leaders. The course is team taught to incorporate Animal Sciences instructors who are specialists in their subject matter areas. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Placement Test, or Grade of C or better in English 101 and Math 118 or higher.

4 Lecture Hours. 4 Credit Hours.

Offered at: WR

Environment Technology 191 Introduction to Crop Sciences

This course is designed to introduce students to the basic principles of plant growth, including human and environmental influences and the theoretical and practical application of agronomic principles to crop production. It also, serves as an introduction to basic agronomy revolving around crop production in the Midwest. The subject matter presented will provide an overview of major aspects of plant and soil management, pest control, and soil and water conservation issues and practices and how they affect growth and development. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): The student should be capable of college entry level reading, writing, and mathematics.

4 Lecture Hours. 4 Credit Hours.

Offered at: WR

Environment Technology 192**Introduction to Soil Science**

This course is designed to provide a comprehensive treatment of the basic principles of soils as they exist and interact in the environment. The course emphasizes soil as a natural body in nature, its formation, classification, chemical and physical properties. The course is designed to be equally useful to the non-agricultural production students, including those studying plant science, ecology and environmental science, and to students in curricula such as agronomy, crop science, soil science, horticulture and forestry. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Successful completion of high school Chemistry is required.

4 Lecture Hours. 4 Credit Hours.

Offered at: WR

Environment Technology 193**Introduction to Horticulture**

This course is designed to offer the student a general introduction to the principles of plant growth and development as they apply to the wide range of horticultural crops and the industries related to production, marketing and utilization of horticultural crops. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Environment Technology 203**Advanced Emergency Planning**

This course covers the planning required for specific emergency response actions including emergency evacuation, housing, and logistics and others. Course information is presented in the context of exercise design as part of pre-planning for response. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ENVR TC 103 or consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Environment Technology 204**Residential Energy Systems**

Course addresses energy systems and energy efficiency technologies utilized in single- and multi-family residential building forms. Covers systems design and installation in both new construction and retrofit projects. Introduces field auditing techniques, environmental impacts (indoor air quality, asbestos, lead, voc's, radon, waste disposal issues, etc.), worker health & safety considerations, Energy Star certification, building commissioning procedures, and local regulatory requirements. An off-campus field trip to a residential "green" building/construction site will be scheduled as part of this course. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Environment Technology 205**Terrorism Planning**

Preparing for and responding to terrorism events requires a more focused perspective. This course will provide an overview of the special considerations

Prerequisite(s): Grade of C or better in ENVR TC 106 or consent of Department Chairperson. Successful completion of ENVR TC 103 is highly recommended.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Environment Technology 209**ADVANCED URBAN AGROECOLOG**

This course explores ways to apply the knowledge and skills acquired through the full sequence of classes. The student will be expected to identify a practicum location and spend 64 hours working (either with or without compensation) on projects associated with the organization and relevant to the course material. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ENVR TC 109 AND 3 ADDITIONAL LAB COURSES (ENVR TC 190, 191, 192 193, CHEM 121, BIOLOGY 119, OR BOTANY 201) OR Consent of Department Chairperson.

1 Lecture Hour. 4 Lab Hours. 3 Credit Hours.

Offered at: WR

Environment Technology 211**Recycling & Waste Minimizing**

This course presents information on reuse and recycling of non-hazardous materials that dominate the municipal waste system. Waste reduction techniques for industrial processes that generate hazardous waste constitute the second half of the course. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Environment Technology 212**Advanced Incident Command**

This course is designed to focus on the particular management issues associated with large-scale emergencies that require response from multiple entities including the federal government. The course will include a study of the National Incident Management System (NIMS) that is activated for incidents of national significance. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ENVR TC 111 and 112 or consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Environment Technology 214**Institutional Energy Systems**

Course covers the types of energy systems and energy efficiency technologies in use in commercial, industrial, and high-rise buildings. Includes design, installation, testing, assessment, and operation of technologies in these structures, and details the integration of system control components. Also encompasses a synopsis of environmental, health & safety for construction and post-construction activities, Energy Star, LEED certification, other pertinent programs and regulatory aspects. An off-campus field trip to an institutional "green" building/construction site will be scheduled as part of this course. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Environment Technology 215**Advanced Weapons of Mass Destruction**

This course applies the basic concepts from EM introduction to weapons of mass destruction (WMD) to specific potential situations where these weapons may be used. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ENVR TC 100, 101, and 115 or consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Environment Technology 221**Emergency Management Operations I**

An advanced course that covers the workings of the Emergency Operations Center (EOC) during the response to major incidents. Students will fill operational roles in a simulated EOC as various drill scenarios are run. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ENVR TC 111 and 122 (concurrent enrollment will not qualify) or consent of Department chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Environment Technology 222 Emergency Management Operations II

A field course in which students will study the application of the concepts covered in the program through direct observation of emergency response activities performed by various government agencies. Students will be placed as interns in government agencies in this course. Students registering for this course must meet all prerequisite requirements and submit to a criminal background check. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Consent of Department Chairperson.

20 Lab Hours. 4 Credit Hours.

Offered at: WR

Environment Technology 226 Disaster Psychology

This course examines the psychological impacts of disasters on both victims and responders. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Environment Technology 241 Environmental Sampling

This course is an in-depth study of the procedures and concepts used by EPA to investigate sites. Emphasis is on hazardous waste at both controlled and uncontrolled sites. The course will include the investigation of ground water, surface water, air, and soil contamination including health and risk assessments. This course is designed for students interested in the fields of environmental engineering and environmental science. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ENVR TC 121 and ENVR TC 131.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: WR

Environment Technology 243 Environmental Analysis

This course will introduce the student to the foundations of environmental chemistry. Man-made and natural systems will be examined. Students will be encouraged to qualify and quantify the relationships between chemistry and the environment. United States Environmental Protection Agency analytical requirements will be surveyed using inductively coupled argon plasma, gas chromatography, mass spectrometry, ion chromatography and UV-Vis spectrometry, among other state-of-the-art analytical technologies. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Chemistry 121 and Biology 106.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: WR

Environment Technology 244 Energy Equipment Troubleshooting

A second tier course comprised of four (4) core classes in maintenance, operation, and diagnostics of electrical and HVAC systems, and two of four (2 of 4) possible electives in system specialty topics. Buildings Operator Certification is a professional development program in the energy and resource efficient operation of buildings to qualify operations and maintenance staff for certification. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: WR

ESL (INTEGRATED) (0136)

ESL (Integrated) 98 Intermediate Integrated ESL

This is an integrated reading/writing course at the intermediate ESL Level designed to increase students' receptive and productive command of written English. The focus is on grammatical structures, as well as reading and composition at the intermediate level. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Course may be repeated up to three times and may count for a maximum of six credit hours. Consent of Department Chairperson required for repeatability.

Prerequisite(s): ESL Placement Test and interview, or Consent of Department Chairperson.

6 Lecture Hours. 6 Credit Hours.

Offered at: TR HW

ESL (Integrated) 99 High Intermediate ESL

This is an integrated reading/writing course at the high-intermediate ESL level designed to increase students' receptive and productive command of written English. The focus is on sentence structure, reading and authentic texts, and essay writing. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Course may be repeated up to three times and may count for a maximum of six credit hours. Consent of Department Chairperson required for repeatability.

Prerequisite(s): ESL Placement Test and interview, or successful completion of ESL (Integrated) 098, or ESL English 098, and ESL Reading 098, or Consent of Department Chairperson.

6 Lecture Hours. 6 Credit Hours.

Offered at: TR HW

ESL (Integrated) 100 Advanced Intergrated ESL

This is an integrated reading/writing course at the Advanced ESL Level designed to increase students' receptive and productive command of written English. There is a review of sentence structure and sentences connection; extensive reading of authentic texts, including academic ones; and frequent essay-writing. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Course may be repeated up to three times and may count for a maximum of six credit hours. Consent of Department Chairperson required for repeatability.

Prerequisite(s): ESL Placement Test and interview or Grade of C or better in ESLINTG 099 or ESL English 099 and ESLREAD 099, or Consent of Department Chairperson.

6 Lecture Hours. 6 Credit Hours.

Offered at: TR HW

ESL READING (0137)

ESL Reading 98 Special Reading Skills

Special reading skills for non-native speakers of English; focus is on comprehension and analysis of reading materials and study of American idioms. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Course may be repeated up to three times and may count for a maximum of three credit hours. Consent of Department Chairperson required for repeatability.

Prerequisite(s): Qualifying score on ESL Placement Test and oral interview, grade of C or better in ESLWRIT 098 and ESLSPCH 098, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH HW

ESL Reading 99**High Intermediate Reading Skills**

For students who need to improve their reading skills; efficient reading of textbooks and other materials including work in mechanics of reading, vocabulary development, comprehension, and rate of reading. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Course may be repeated up to three times and may count for a maximum of three credit hours. Consent of Department Chairperson required for repeatability.

Prerequisite(s): Placement Test, or grade of C or better ESLREAD 098, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH HW WR

ESL Reading 100**Advanced Reading Skills**

Focus on comprehension and analysis of college-level reading materials and study of American idioms. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Course may be repeated up to three times and may count for a maximum of three credit hours. Consent of Department Chairperson required for repeatability.

Prerequisite(s): Placement test, or grade of C or better in ESLREAD 099, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH WR

ESL SPEECH (0195)**ESL Speech 98****Intermediate Speech**

Emphasis on achieving competency required for successful pursuit of higher education: pronunciation drills, pattern drills, participation in group discussion and presentation of brief speeches. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Course may be repeated up to three times and may count for a maximum of three credit hours. Consent of Department Chairperson required for repeatability.

Prerequisite(s): Placement Test, or Consent of Department Chairperson and grade of C or better in ESLWRIT 98 and ESLREAD 98.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH HW

ESL Speech 99**High Intermediate Speech**

Emphasis on conversation, group discussion, and listening skills to improve communication to enhance academic pursuits. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Course may be repeated up to three times and may count for a maximum of three credit hours. Consent of Department Chairperson required for repeatability.

Prerequisite(s): Placement Test and oral interview or grade of C or better in ESLSPCH 098, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH HW

ESL Speech 100**Advanced Speech**

The goal of this speech class is to upgrade the oral communication skills of students whose native language is not English, and to prepare them for Speech 101. Emphasis is placed on oral presentations, as well as comprehensibility and use of conversational techniques. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Course may be repeated up to three times and may count for a maximum of three credit hours. Consent of Department Chairperson required for repeatability.

Prerequisite(s): Placement test and oral interview, or grade of C or better in ESLSPCH 099, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH HW

ESL WRITING (0135)**ESL Writing 98****Special Grammar & Composition**

Writing skills, linguistic and idiomatic patterns are emphasized. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Course may be repeated up to three times and may count for a maximum of three credit hours. Consent of Department Chairperson required for repeatability.

Prerequisite(s): Placement Test and oral interview; ESLREAD 098 and ESLSPCH 098, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH WR

ESL Writing 99**High Intermediate Grammar & Composition**

Intensive review and refinement of grammar and composition. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Course may be repeated up to three times and may count for a maximum of three credit hours. Consent of Department Chairperson required for repeatability.

Prerequisite(s): Placement Test, or grade of C or better in ESLWRIT 098, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH

ESL Writing 100**Advanced Grammar & Composition**

Writing and analysis of paragraphs and essays and of logical development. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Course may be repeated up to three times and may count for a maximum of three credit hours. Consent of Department Chairperson required for repeatability.

Prerequisite(s): Placement test, or grade of C or better in ESLWRIT 099, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH WR

EXRCISE SCI AND SPORTS STUDIES (0147)**Excrcise Sci and Sports Studies 101****Personal Trainer Preparation**

This course introduces the knowledge and skills necessary to practice as a certified personal trainer for a variety of client populations, including the foundations of client interaction, the assessment of physiological, functional, and biomechanical aspects of human movement in the individual, and the design and supervision of strength and aerobic individual and group exercise programs. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: MX

Exercise Sci and Sports Studies 102**Personal Trainer Practicum**

The exercise practicum provides practical experience for students enrolled in the personal trainer program. The practicum focuses on the application and synthesis of the knowledge base skills of a personal trainer in a supervised commercial, community or clinical fitness setting in order to actively engage individuals of various ages and functional abilities. The course includes a campus-based lecture series that provides review and supplemental knowledge of the personal training profession. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

1 Lecture Hour. 5 Lab Hours. 2 Credit Hours.

Offered at: MX

Exercise Sci and Sports Studies 103**Allied Health Clinical Skills**

Course Catalog Description: This course serves as an introduction to rehabilitation professions, the basic concepts governing rehabilitation practice, and skills performed by a rehabilitation aide. Course work includes orientation to various practice settings and scope of practice for a rehabilitation aide. This includes education and training, communication, patient care, basic medical terminology, mobility, assistive devices, activities of daily living, adaptive equipment, and therapeutic exercise. Completion of this course will give the student the skills to work as a rehabilitation aide under the supervision of a physical or occupational therapist or a physical therapist or occupational therapist assistant in a variety of practice settings including hospitals, skilled nursing facilities, inpatient/outpatient rehabilitation centers, and home care. Writing assignments, as appropriate to the discipline, are part of this course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: MX

Exercise Sci and Sports Studies 112**Functional Anatomy & Kinesiology**

This course provides an organized study of human anatomy and kinesiology, the study of human movement. A working knowledge of both human anatomy and kinesiology are fundamental to student success in programs within the Exercise Science and Sports Studies (ESSS) department. Emphasis is placed on the integration of structure and function of the skeletal, articular, muscular, nervous, and circulatory systems. Upon completion, students should be able to identify skeletal anatomy including bony landmarks and muscular anatomy including origins, insertions, nerve innervations, vascular supply, and action. The concepts of locomotion, biomechanics, forces and levers will be introduced and how these apply to functional movement. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

2 Lecture Hours. 6 Lab Hours. 5 Credit Hours.

Offered at: MX

Exercise Sci and Sports Studies 206**Sports First Aid**

This course will introduce students to the proper protocols to follow to prevent injuries and to administer sports first aid. Students will learn how to perform physical assessment, conduct emergency actions steps, and administer first aid. Topics presented will include control of bleeding, treatment for tissue damage, and unstable injuries, moving injured athletes and returning athletes to play. Successful completion of the course leads to partial certification through the American Sports Education Program (ASEP) Professional Education Program. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ESSS 101, OR Consent of Department Chairperson.

2 Lecture Hours. 2 Credit Hours.

Offered at: MX

Exercise Sci and Sports Studies 209**Corrective Exercise Training**

This course will present an evidence-based approach to corrective exercise, the components of a comprehensive solution, and the practical know-how to develop and implement integrated strategies to improve common movement impairments. Students completing this course will be prepared to take the National Academy of Sports Medicine (NASM) Corrective Exercise Specialist credentialing examination. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ESSS 102 and ESSS 110, OR Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: MX

Exercise Sci and Sports Studies 214**Exercise and Health Psychology**

This course presents an overview of psychological, and social aspects as related to health promotion, health compromising and enhancing behaviors, stress management, coping strategies, coping with disease, coping with injury, the influence of social and physical environments on health, cognitive process of health information, health belief models, and models for behavior change. Writing assignments, as appropriate to the discipline are part of the course.

Prerequisite(s): Grade of C or better in English 101, OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

FINE ARTS (0042)**Fine Arts 103****Theater Arts**

A cross-disciplinary approach to the performing arts. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

GE: Fine Arts

Fine Arts 104**The World Of The Cinema**

Study of various types of films; covers historical development, production methods, technique of films and critical evaluation. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA MX TR HW WR

IAI: F2 908 GE: Fine Arts

Fine Arts 105**History of Painting, Sculpture & Architecture**

Survey of art from pre-historic to contemporary. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA HW

IAI: F2 900 GE: Fine Arts

Fine Arts 107**History of Architecture, Painting & Sculpture I**

Survey of art from pre-history through the 17th century. Writing assignments, as appropriate to the discipline, the course

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK TR HW WR

IAI: F2 901 GE: Fine Arts

Fine Arts 108**Hist Of Arch Paint Sculp II**

Survey of art from the 18th century to the present. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK OH TR HW WR

IAI: F2 902 GE: Fine Arts

Fine Arts 109**History Of Cinema**

An international survey of the history of cinema, from the silent era to contemporary filmmaking, emphasizing a study of various film genres from around the world and innovations in film production that have had significant influence on film as an art form. Full-length films and film clips will be screened in class. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

IAI: F2 909 GE: Fine Arts

Fine Arts 110**Opera And The Humanities**

Opera as a medium in which the philosophic, aesthetic and psychological perspectives of composers and their eras are communicated; selected operas which parallel those offered in the community and present similar communication experiences will be studied; written material, radio broadcasts of operas, opera commentaries and opera performances will be utilized. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

IAI: F1 910 GE: Fine Arts

Fine Arts 111**History of Photography**

The historical development of photography as an art form from 1839 to the present, including critical analysis of types of photographs and aesthetic movements in photography. Examines photographs for their aesthetic and humanistic values, emphasizing photographs as expressions of ideas and beliefs of photographers within their cultural and social contexts. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

IAI: F2 904 GE: Fine Arts

Fine Arts 112**Dance Appreciation**

Study of dance and expressive movement reflecting socio-cultural and artistic traditions from early civilizations to the present. Compares ancient, modern, and contemporary dance forms and examines the contributions of individual dancers, dance companies, and choreographers to global cultural heritage. The history and aesthetic standards of dance are explored through lecture and concert attendance. Writing, as appropriate to the discipline, is expected for this course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

IAI: F1 906 GE: Fine Arts

FIRE SCI MGMT/FIRE SERV OP (0152)**Fire Sci Mgmt/Fire Serv Op 101
Principles of Emergency Services**

This course provides an overview of fire protection and emergency services; culture and history of fire science and emergency services, fire loss analysis, organizations of public and private fire protection services, and fire departments as part of local government. This foundation course includes introduction to fire protection, safety, tactics and safety. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

**Fire Sci Mgmt/Fire Serv Op 102
Strategies and Tactics I**

This course provides the principles of fire ground control through utilization of personnel, equipment, and extinguishing agents. Basic procedures for suppression of fire; application to principles of building construction of human resources and equipment. This course will meet requirements of the Illinois Fire Protection Personnel Standards and Education Commission for Strategy and Tactics I. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in FIREMG 101 OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

**Fire Sci Mgmt/Fire Serv Op 103
Fire Behavior and Combustion**

History of fire sciences; theories and fundamentals of fire behaviors including how and why fires start, spread and are controlled. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in FIREMG 101 OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

**Fire Sci Mgmt/Fire Serv Op 104
Occupational Safety & Health for Emergency Services**

This course introduces the basic concepts of occupational health and safety as it relates to emergency service organizations. Topics include risk and hazard evaluation and control procedures for emergency service organizations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in FIREMG 101.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Fire Sci Mgmt/Fire Serv Op 197 Principles of Emergency Responder Safety and Survival

This course is designed to help students to identify and explain the sixteen life safety initiatives and explain the concepts of risk management and mitigation as it pertains to emergency services. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Fire Sci Mgmt/Fire Serv Op 198 Strategies and Tactics II

Subject areas include strategic concepts in fire fighting, duties and responsibilities of command officers, incident command system (scene, manpower, apparatus, and Rapid Intervention Teams (RIT) management, multi-company operations, disasters, high-rise operations, critical incident stress, and tactical exercises. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in FIREMGT 102.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Fire Sci Mgmt/Fire Serv Op 200 Management and Leadership I

This course is designed to provide information and skills required to act in primary supervisory role with a focus on leadership in fire service. Topics covered include basic management principles and concepts, leadership styles and conflict resolution. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in FIREMGT 101.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Fire Sci Mgmt/Fire Serv Op 201 Fire Service Hydraulics

This course provides a foundation of theoretical knowledge in order to understand the principles of the use of water in fire protection and to apply hydraulic principles to analyze and to solve water supply problems. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Fire Sci Mgmt/Fire Serv Op 202 Building Construction for Fire Service

This course focuses on the study of the components of building construction related to firefighting, fire resistance and life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, pre-planning fire operations, and operating at emergencies. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in FIREMGT 101 OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Fire Sci Mgmt/Fire Serv Op 203 Fire Suppression and Protection Systems

This course provides information relating to the features of design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in FIREMGT 101.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Fire Sci Mgmt/Fire Serv Op 205 Chemistry of Hazardous Materials

This course provides basic chemistry relating to the categories of hazardous materials including recognition, identification, reactivity, and health hazards encountered by emergency services. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in FIREMGT 101.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Fire Sci Mgmt/Fire Serv Op 204 Management and Leadership II

This course focuses on the role and responsibility of a fire officer who may be in charge of a single company or station. The course provides information on leadership styles, communication, group dynamics, coaching and counseling and performance appraisal. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Fire Sci Mgmt/Fire Serv Op 206 Management and Operations III

This course is the third in a four-part sequence focusing on the roles and responsibilities of a department fire officer, cultivating leadership styles and advanced management skills. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in FIREMGT 204 OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Fire Sci Mgmt/Fire Serv Op 210 Principles of Fire Prevention

This course provides fundamental knowledge relating to the field of fire prevention. Topics include: history and philosophy of fire prevention, organization and operation of a fire prevention bureau; use and application of codes and standards; plans review; fire inspections; fire and life safety education; and fire investigation. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in FIREMGT 101.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Fire Sci Mgmt/Fire Serv Op 211 Management Operations IV

This course is the fourth in a four-part sequence focusing on the roles and responsibilities of a department fire officer, cultivating leadership styles and advanced management skills. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in FIREMGT 206 or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Fire Sci Mgmt/Fire Serv Op 212 Fire Investigation I

This course is intended to provide the student with the fundamentals and technical knowledge needed for proper fire science interpretations, including recognizing and conducting origin and cause, preservation of evidence and documentation, scene security, motives of the fire setter, and types of fire causes. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in FIREMGT 101, 198 AND 202.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Fire Sci Mgmt/Fire Serv Op 213 Fire Investigation II

This course is intended to provide the student with advanced technical knowledge on the rule of the law, fire scene analysis, fire behavior, evidence collection and preservation, scene documentation, case preparation and courtroom testimony. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in FIREMGT 212.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Fire Sci Mgmt/Fire Serv Op 220 Fire Instructor I

Methods and techniques of teaching for fire service instructors; principles of adult learning; teaching methodology; student assessment and evaluation. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in FIREMGT 101 AND Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Fire Sci Mgmt/Fire Serv Op 221 Fire Instructor II

Methods and techniques for Fire Service Instructor II training will examine methods and techniques for planning, development, and conducting a Fire Service Training Program. This course is designed for leaders in the emergency services field who desire to analyze, design, implement and evaluate training methods and techniques. Writing assignments, as appropriate to the discipline, are part of the course. This course will meet requirements of the Illinois Fire Protection Personnel Standards and Education Commission for the Standard Level II Instructor Certificate.

Prerequisite(s): Grade of C or better in FIREMGT 220.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

FOOD SERVICE ADMINISTRATION (0038)

Food Service Administration 103 Food Srv Sani/Recert

Prepare yourself to be certified or recertified by the City of Chicago and the State of Illinois in Food Service Sanitation, including training and certifying food vendors for outdoor festivals. Food protection will be emphasized through sanitation training.

1 Lecture Hour. 1 Credit Hour.

Offered at: DA

FOUNDATIONAL STUDIES ESL (0840)

Foundational Studies ESL 4001 English Academic Purposes I

This is the first course of six designed for non-native speakers of English who are in preparation for college. This introduces students to the American College system and focuses on oral language development.; speaking, listening, communication, reading skills, and written expression. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Foundational Studies ESL 4002 English Academic Purposes II

This is the second course designed for non-native speakers of English who are preparing to enter college. This course is a continuation of oral language development--speaking, listening, and communication; reading skills, and written expression. Emphasis placed on listening skills, discussion, and vocabulary development. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Foundational Studies ESL 4004 English Academic Purposes IV

This is the fourth of six courses designed for non-native speakers of English who are preparing to enter college. This course focuses on oral language development, skills for reading college textbooks, skills for writing about subject area content, interpreting graphically presented information, locating and using information, and using the college library and resource center. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

Foundational Studies ESL 4005 English Academic Purposes V

Study of the form and content of effective writing. Review of the essentials of written and spoken grammar and usage, and intensive practice in writing complete sentences, effective paragraphs and short essays/compositions. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

Foundational Studies ESL 4006 English Academic Purposes VI

This is the last of the six courses designed for non-native speakers of English who are preparing to enter college. This course focuses on critical reading skills, research skills, essay writing, grammar, and discussion of current events and subject areas topics. Writing assignments, as appropriate to the discipline are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

Foundational Studies ESL 4007 ESL: College Prep I

This is the first of six college preparation courses designed for non-native speakers of English who have complete English for Academic Purposes. Each course provides a foundation for study in college content areas. This course focuses on study skills, critical thinking and reading of historical and other nonfiction prose, and correctness of written expression. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

Foundational Studies ESL 4008 ESL: College Prep II

This is the second of six preparation courses designed for non-native speakers of English who have completed English for Academic Purposes. This course will continue to focus on the study skills and correctness of written expression and will apply critical reading and thinking skills to literature. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

Foundational Studies ESL 4009 ESL: College Prep III

This is the third of six concurrent college preparation courses for non-native speakers of English who has completed English for Academic Purposes. This course focuses on listening skills for academic purposes, note taking and study habits, writing to learn, and skills for intensive reading of factual matter. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

Foundational Studies ESL 4010**ESL: College Prep Iv**

This is the fourth of six college preparation courses designed for non-native speakers of English who have completed English for Academic Purposes. This course continues to focus on listening skills for academic purposes, note taking and study habits, writing to learn, and critical thinking and reading. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

Foundational Studies ESL 4011**ESL: College Prep V**

This is the fifth of six college preparation courses designed for non-native speakers of English who have completed English for Academic Purposes. This course focuses on lectures by visiting college professors, skills for reading science materials, academic writing, and strategies for college success. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

Foundational Studies ESL 4012**ESL: College Prep VI**

This is the last of six college preparation courses designed for non-native speakers of English who have completed English for Academic Purposes. This course focuses on lectures by visiting college professors, skills for reading psychology, sociology, political science, economics, and the humanities, and strategies for college success. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

FOUNDATIONAL STUDIES MATH (0830)**Foundational Studies Math 3001****Math Refresher I**

This course is designed for students needing a review of basic math in order to take college level math courses. This course provides a review of the rules of addition, subtracting, multiplication and division using whole numbers and decimals. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Foundational Studies Math 3002**Math Refresher II**

This course is designed for students needing a review of basic math in order to take college level math courses. This course focuses on percents, fractions, and integers. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Foundational Studies Math 3003**Math Refresher III**

This course is designed for students needing a review of basic math in order to take college level math courses. This course will review powers and roots; basic concepts of ratio, proportion, probability, and basic geometry. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Foundational Studies Math 3004**Elementary Algebra**

This course is designed to prepare students to take college level algebra. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

FOUNDATIONAL STUDIES READING (0810)**Foundational Studies Reading 1001****Reading I**

This is the first in the sequence of six courses designed to prepare high school students for college level course work. This course focuses on developmental skills essential to effective reading. Emphasis is placed on decoding, and word attack skills, and sight word recognition. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): FS Read 1001 requires CCC RTW = 1 OR CCC ESL or Write >=1 OR Compass EWrite >=1 AND Compass Read 1-49 OR Asset Read 23-33 OR CCCWRITE2 ESL or Writi >= 1.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH WR

Foundational Studies Reading 1002**Reading II**

This is the second course in a sequence of six courses designed to prepare high school students for college level course work. This course will help students develop additional skills essential to effective reading. The emphasis on decoding skills will continue. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK WR

Foundational Studies Reading 1003**Reading III**

This is the third course in a series of six designed to help high school graduates develop skills essential to effective reading. The emphasis on decoding skills will continue. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): FS Read 1003 requires CCC RTW = 1 or CCC Write >=2 AND Compass Read 1-49 and Co-Req of FS Write 2003

3 Lecture Hours. 3 Credit Hours.

Offered at: OH HW

Foundational Studies Reading 1004**Reading, Writing, Critical Thinking I**

This is the fourth in a sequence of six courses designed to prepare high school graduates for college level course work. This course will help students increase their reading, writing, and critical thinking skills. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): FS Read 1004 requires CCCRTW =1 or CCC Write >=2 or COMPASS Write >=1 AND Compass Read 1-49 and FS Read 1005 Co-Req.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH TR HW WR

Foundational Studies Reading 1005**Reading, Writing, Critical Thinking II**

This is the fifth in a sequence of six courses designed to prepare high school graduates for college level course work. It is a continuation of Reading, Writing, and Critical Thinking I and is designed to help high school graduates increase these skills for use in college level course content areas. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): FS Read 1005 requires Co-Req of FS Read 1004

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH TR HW

Foundational Studies Reading 1006**Reading, Writing, Critical Thinking III**

This is the last course in a six course sequence designed to prepare high school graduates for college level work. It is a continuation of Reading, Writing, and Critical Thinking II and designed to prepare students to read across all majors content areas from a basic knowledge base. Students will gain basic content knowledge proficiency in literature, history, fine arts, geography, physical science, life science, medicine, and health. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): FS Read 1006 requires CCCRTW =1 or CCCWrite <=2 or Compass Read <=49 AND Compass EWrite <=4

3 Lecture Hours. 3 Credit Hours.

Offered at: MX OH HW

FOUNDATIONAL STUDIES WRITING (0820)**Foundational Studies Writing 93****Foundational Studies in Literacy**

Foundational Studies in Literacy is an integrated reading and writing course with a focus on helping students develop core literacy skills. The course involve thoughtful discussion, engaged critical thinking, and the reading of various genres of appropriate-level texts. Students will practice effectively communicating clear thoughts at the sentence and paragraph level as well as in longer-form writing. In addition to reading and writing, students will practice and implement strategies for long and short-term goal setting, while improving study skills to prepare for long-term success in subsequent courses or career pathways. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Placement into FSL is determined by the CCC Placement Test, or consent of Department Chairperson in collaboration with the FSL Coordinator. CCC Reading to Write score of 1 is required.

6 Lecture Hours. 6 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Foundational Studies Writing 2002**Writing Mechanics II**

This is course two of four for students who need instruction in basic writing skills required for college level analytical writing. The course will cover writing paragraphs; how to organize thoughts and information; examining the source of information.; identifying problems of accuracy, specificity, and clarity, and writing explanations of the problem. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX WR

Foundational Studies Writing 2001**Writing Mechanics I**

This course is the first in a series of four designed for students who need to learn basic writing skills required for college level analytical writing. The course focuses on sentence structure and the mechanics of writing sentences and simple paragraphs. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH WR

Foundational Studies Writing 2003**Writing Mechanics III**

This course is designed to improve the college writing skills of each student by understanding and implementing the writing process, mastering both paragraph and essay development--intro, body, and conclusion--and other type prose and reinforcing grammar and usage skills, as well as punctuation, capitalization, and dictionary usage. Writing workshop methods will be used to enhance students' personal writing styles, improve composition abilities, and build confidence. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

FRENCH (0051)**French 101****First Course French**

Pronunciation and basic structures, speech patterns, reading, and writing skills. Writing assignments, as appropriate to the discipline, are part of the course.

4 Lecture Hours. 4 Credit Hours.

Offered at: DA KK MX OH TR HW WR

HD Course

French 102**Second Course French**

Continuation of French 101. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Placement test, or grade of C or better in French 101

4 Lecture Hours. 4 Credit Hours.

Offered at: DA KK MX OH TR HW WR

HD Course

French 103**Third Course French**

Review and development of basic language skills, conducted in French. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Placement test, or grade of C or better in French 102 or Consent of Department Chairperson.

4 Lecture Hours. 4 Credit Hours.

Offered at: KK TR HW WR

HD Course

French 104**Fourth Course French**

Review of language structure and interpretation of readings, conducted in French. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Placement test or grade of C or better in French 103 or Consent of Department Chairperson.

4 Lecture Hours. 4 Credit Hours.

Offered at: KK TR HW WR

IAI: H1 900 GE: Humanities HD Course

French 206**Intensive Oral Practice French**

Practice in spoken language, fluency and accuracy. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Placement test, or grade of C or better in French 104, Consent of Department Chairperson.

4 Lecture Hours. 4 Credit Hours.

Offered at: KK TR HW

GE: Humanities

French 210**Modern Civilization & Culture French**

Recent social, cultural, and historical trends, conducted in French and English. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: TR

GE: Humanities HD Course

French 213**Intro To Modern Literature French**

Selections from contemporary writings, conducted in French. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Placement test, or grade of C or better in French 104, Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK HW WR

IAI: H3 916 GE: Humanities HD Course

French 214**Readings In Literature French**

Works from selected historical periods, conducted in French. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Placement test, or grade of C or better in French 104, Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK TR HW

IAI: H3 916 GE: Humanities

FRENCH PASTRY SCHOOL (0330)**French Pastry School 707****Food Service Technology**

Introduces kitchen calculations, including costing and conversion, determining revenue and food cost, menu planning and pricing, cost control in a food service environment, and an overview of the use of computers in a professional kitchen. Writing assignments, as appropriate to the discipline are part of the course.

4 Lecture Hours. 4 Credit Hours.

Offered at: KK

French Pastry School 712**Baking Theory and Problems**

Instruction in formulas, new formulas and ingredients in the baking/pastry field. Evaluation of convenience mixes. Math for bakers. Writing assignments, as appropriate to the discipline, are part of the course.

5 Lecture Hours. 5 Credit Hours.

Offered at: KK

French Pastry School 754**Candy & Confectionery**

In this course, the students will learn about the history of chocolate, chocolate bi-products, tempering and handling of chocolate. They will learn to produce a wide range of chocolate candies. This class is taught using updated methods of traditional recipes with efficient production set-up. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Credit Hours.

Offered at: KK

French Pastry School 758**Plated Desserts**

This course focuses on simplified and cost-effective production methods, while stressing the importance of maintaining high quality by using the freshest ingredients. Students will be exposed to refreshingly new presentations and elegant designs that will be carried out when they prepare several plated desserts including hot and cold, frozen desserts, fruit soups, parfaits, and a la minute desserts. Writing assignments, as appropriate to the discipline, are part of the course.

4 Lecture Hours. 4 Credit Hours.

Offered at: KK

French Pastry School 761**Chocolate and Sugar**

Students will learn about the history, tempering and the fundamentals of chocolate and sugar. They will learn the latest techniques with use of chocolate colors, spray gun, use of different types of molds, making cut-out decorations, silk screens, pastillage, saturated sugar, pulled and blown sugar, spun and piped, bubble, straw, pured sugar and more. All of these techniques will be applied to the several show pieces each student will create and take home. Writing assignments, as appropriate to the discipline, are part of the course.

5 Lecture Hours. 5 Credit Hours.

Offered at: KK

French Pastry School 762**French Cakes and Pastries**

In this course, the students will learn to produce a wide variety of classical and modern French cakes suitable for restaurants, retail shops for large scale productions, using the latest assembling techniques and cost-effective production methods. These cakes will be highlighted with decorations such as silk screens, printed sponge, logos, chocolate and sugar decorations to name a few. Writing assignments, as appropriate to the discipline, are part of the course.

4 Lecture Hours. 4 Credit Hours.

Offered at: KK

French Pastry School 779**Safety & Sanitation**

This course conveys the utmost importance of food professionals providing safe food to their customers. Students learn everything about food safety, sanitation, equipment, and food delivery. This is a comprehensive immersion into all aspects of handling food safely. The National Restaurant Association ServSafe examination will be part of this course. Student must pass this exam in order to pass the 16-week program. Those who do not pass will have the opportunity to re-take the exam. Students who pass will be eligible for city and state certification. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Concurrent enrollment in 330FPS 780, 781, 782 and 783.

1 Lecture Hour. 1 Credit Hour.

Offered at: KK

French Pastry School 780**Baking, Pastry & Technology**

This course takes students through the technology and science of the ingredients of pastry. Students learn the differences between various dairy products and eggs, the different types of flours and sugars, and how the interactions of ingredients affect the outcome. Students learn basic skills and modeling, petits fours and party favors, as well as the historical development of celebration cakes. Students immerse themselves in the history of French pastry and cake making, the development of palate, the hierarchy of a kitchen, and an explanation of the wide variety of settings where graduates can use their craft. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 330FPS 779. Concurrent enrollment in 330FPS 781, 782 and 783.

2 Lecture Hours. 6 Lab Hours. 4 Credit Hours.

Offered at: KK

French Pastry School 781**Cake Baking & Construction**

This course covers all aspects of wedding, celebration, and specialty cake baking, constructing, and assembly. Recipe creations with taste and texture profile methods are covered in depth. Students learn a variety of doughs and fillings; the art of cake architecture; European classic recipes, cutting-edge creations, current trends, and sculpted cake methods; all this giving students a solid foundation necessary to create their own. Efficient production methods are taught and students will use these techniques to produce their own designs. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 330FPS 779 and 780. Concurrent enrollment in 330FPS 782 and 783.

2 Lecture Hours. 9 Lab Hours. 5 Credit Hours.

Offered at: KK

French Pastry School 782**Cake Decorating Techniques**

In this course students learn a wide variety of cake decorating techniques including elaborate gumpaste work, detailed piping techniques, French buttercream frosting, making rolled fondant from scratch and rolled fondant cake covering, chocolate decorations specifically tailored for cakes, pastillage and pressed sugar accents, pulled and blown sugar flowers and ribbons, mold making methods, airbrushing skills, figurine modeling and 3-D sculpted cakes. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 330FPS 779 and 780. Concurrent enrollment in 330FPS 781 and 783.

2 Lecture Hours. 9 Lab Hours. 5 Credit Hours.

Offered at: KK

French Pastry School 783**Cake Business Planning**

This course provides in-depth lectures focusing on critical information needed to operate to successful wedding cake business such as pricing, customer consultation, cake portions, design, packaging, and delivery logistics. Career counseling and personal attention to each student's career goals are provided. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 330FPS 779 and 780. Concurrent enrollment in 330FPS 781 and 782.

1 Lecture Hour. 1 Credit Hour.

Offered at: KK

GEOGRAPHY (0084)**Geography 101****World Geography**

Economic, political, and cultural geography of the modern world; includes the people, raw materials, industrial resources, and trade connections of various parts of the earth. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: S4 900N GE: Social & Behavioral Sciences HD Course

Geography 102**Economic Geography**

Contemporary view of the economic interdependence of the nations of the world with emphasis on role of the United States, the dynamic changing future of geography, and its influence on world conditions. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK HW

IAI: S4 903N GE: Social & Behavioral Sciences HD Course

Geography 201**Physical Geography**

Physical environment of humans, their atmosphere, landforms, waters and other natural resources; emphasis on interrelationships of these areas and interaction of humans with their surroundings. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK HW WR

IAI: P1 909 GE: Physical Sciences

GEOLOGY (0075)**Geology 201****Physical Geology**

Basic earth processes: weathering, erosion, deposition, mountain building, metamorphism, volcanism, and plate tectonics. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: DA MX OH TR HW

IAI: P1 907L GE: Physical Sciences

HEALTH (0001)**Health 102****Medical Law & Ethics**

This course considers the standards of ethical conduct toward patients, colleagues and other members of the medical team. Legal responsibility, professional liability, licensing, contracts, and other applications of law in medicine will be included. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and General Education Math 118 or higher.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX WR

Health 103**Medical Assisting Clinical Procedures I**

This course is designed to introduce students to basic clinical procedures in the medical office assisting field. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Acceptance in the Medical Assistant program/plan 0359 and Grade of C or better in Biology 120.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: WR

Health 104**Medical Assisting Clinical Procedures II**

This course provides proficiency in performing basic skills and assist with procedures common to the medical practice. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Health 103.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: WR

Health 105**Medical Careers Professional Development**

This course explores the professional issues that affect the medical assistant. Current trends in education, certification and employment will be discussed and their impact on the practicing medical assistant will be emphasized. Communication skills that will enhance the performance of the medical assistant will also be reviewed. Employment seeking techniques such as resume preparation and interviewing skills will be included. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and General Education Math 118 or higher.

2 Lecture Hours. 2 Credit Hours.

Offered at: MX WR

Health 106 Administrative Procedures

This course will explore administrative and front office responsibilities in the physician's practice or clinic setting. Emphasis is placed on clerical functions, bookkeeping procedures, preparing special accounting entries, transcription, and processing insurance claims. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Health 103.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: WR

Health 107 Pharmacology

This course introduces the student to the basic skills that are performed by the medical assistant in the medical office. The course will emphasize the principles of pharmacology as they relate to medication administration in the medical office and clinic settings. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Acceptance into the Medical Assisting program/plan 0359 and Grade of C or better in Biology 120.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: MX WR

Health 108 Fundamentals of Ambulatory Billing & Coding

This course covers performance of coding procedures; application of third party and managed care policies, procedures, and guidelines, including obtaining referrals and pre-certifications; and billing for services, including insurance claim forms and use of a physician's fee schedule. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Acceptance into the Medical Assistant program/plan 0359 and Grade of C or better in Biology 120.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: WR

Health 109 Medical Assisting & Externship Practicum

This course requires a minimum of 160 hours of supervised, non-salaried experience in a variety of health care settings. Students will be assigned to clinical sites. This course requires 16 practicum hours per week. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 20 Lab Hours. 6 Credit Hours.

Offered at: WR

Health 250 Health Education

Trends and issues of personal and community health; stress ways to maintain good physical and mental health; ecology, drugs, alcoholism, human sexuality, nutrition, disease and related topics. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX TR HW WR

Health 251 First Aid

Standard American Red Cross course in first aid; principles and practices of first aid for all age levels; safety and accident prevention stressed; First Aid Standard and Advanced certificates awarded to students completing the course successfully. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Health Information Technology 101 Foundations of HIT

Course examines sources of health information and their relationship with health agencies. Course discusses the healthcare delivery system in the United States, professional and trade associations related to healthcare, ethical obligations, cultural competence, and diversity in healthcare related to age, race, sexual orientation, education, work experience, geographic location, and disability. Content includes study of origin and purpose, content, order, analysis and use of medical records, methods of compiling, numbering, retrieving, and retention of health information. It introduces students to the electronic health information systems and electronic health record environment including standards, applications, and capabilities of the EHR. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Acceptance into Health Information Technology (HIT) Program. Eligibility for English 101 or consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: MX

HD Course

Health Information Technology 102 Medical Billing

Course provides instructions in health records and insurance processing procedures, application of third party and managed care policies, procedures, guidelines, including obtaining referrals and pre-certifications. Various claim forms along with filing guidelines are introduced. Focus is on correlating health information with billing procedures in different healthcare settings. Course covers in-depth study of Medicare insurance system with emphasis on knowledge of terminology and guidelines involved in claim filing process. Topics also include understanding of Medicare reimbursement policies, appeal rights, and CMS current efforts to curtail healthcare fraud and abuse. Additionally, introductory information about other major insurance programs, reimbursement methodologies, and federal healthcare legislation programs will be provided. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Concurrent enrollment in HIT 101

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: MX

Health Information Technology 103 Basic ICD-10-CM/PCS Coding

Course covers the ICD-10-CM/PCS classification system required to organize medical information for retrieval and reporting. Focus is on both the ICD-10-CM disease classification system and ICD-10-PCS classification system. Work focuses on acquiring skills in coding diseases and procedures and abstracting medical data. Hands-on experience in coding case scenarios assignments. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Concurrent enrollment in HIT 101

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: MX

Health Information Technology 104 Basic CPT Coding

Course covers basic principles and guidelines of CPT coding in both hospital-based and ambulatory environments. Students develop skills in using CPT to report reimbursable services. Topics include the format of CPT and practice code assignment, ethical coding principles, encoding systems and software with practice applications. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Concurrent enrollment in HIT 101

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: MX

HEALTH INFORMATION TECHNOLOGY (0145)

Health Information Technology 105 Pharmacology for HIT Professionals

Course offers comprehensive coverage of pharmacology as it relates to clinical documentation in the health record. Content includes medical terminology, drug classifications, therapeutic use in diseases and conditions, adverse effects, and side effects. This course introduces the student to the basic skills that are performed by the medical assistant in the medical office. The course will emphasize the principles of pharmacology as they relate to medication administration in the medical office and clinic settings.

Prerequisite(s): Grade of C or better in HIT 100.

2 Lecture Hours. 2 Credit Hours.

Offered at: MX

Health Information Technology 108 Advanced ICD-10-CM/PCS Coding

Course covers the ICD-10-CM/PCS classification systems required to organize medical information for retrieval and reporting. Focus in on both the ICD-10CM disease classification system and ICD-10-PCS classification system. Work focuses on mastering skills in coding diseases and procedures and abstracting medical data. Hands-on experience in coding site-specific cases. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in HIT 103

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: MX

Health Information Technology 109 Advanced CPT Coding

Course covers principles and guidelines of CPT coding in both hospital-based and ambulatory environments. Students master coding skills in using CPT to report reimbursable services. Hands-on experience in coding site-specific cases. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in BIOLOGY 116 and HIT 104.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: MX

Health Information Technology 110 Medical Terms for HIT Professionals

This course present medical terminology through study of medical word roots, prefixes, and suffixes. Focus of the course in on the relationship among symptomatic, disease, and procedural terms. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Health Information Technology 201 Fundamentals of Medical Science

Course provides introduction to medical science. Content includes study of nature and cause of disease, treatment and management of patients, and practical application of knowledge by health information management professional. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in HIT 100.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Health Information Technology 202 Advanced Coding ICD9/10-CPT-4

This course provides advanced coding techniques for the CPT-4, ICD-9-CM, and ICD-10M/PCS coding systems with emphasis on official coding guidelines, and sequencing. Emphasis on case studies, health records, and federal regulations regarding perspective payment systems and methods of reimbursement. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in HIM 103 AND HIM 104, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Health Information Technology 203 Reimbursement Methodologies

This course introduces terminology, rationale and methodology used by third-party payers to determine the reimbursement for health care providers. Proper completion of the 1500 billing form and legal issues related to reimbursement will be discussed, as well as the role health information management plays in the charge master maintenance, reimbursement monitoring, revenue cycle. An overview of hospital and nursing home billing systems including proper submission of UB-92 billing forms will also be covered. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in HIT 102

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: MX

Health Information Technology 204 Health Statistics & Registries

This course is a survey of sources and uses of health data in the United States. It focuses on the collection of data, commonly used computations, and the presentation and reporting of data. The function and use of registries with emphasis on the Tumor Registry is studied. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in HIM 101, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: MX

Health Information Technology 205 Health Information Management Seminar I

This course is a capstone course that emphasizes the integration of the knowledge, skills, and abilities developed as a part of the health information management advanced certificate curriculum. This course specifically focuses on the student's ability to demonstrate a comprehensive, integrated response to simulated scenarios the student will face in the work environment. Students will also develop their resume and portfolio in preparation for entry into the work force. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Students must be in their last semester of the Advanced Certificate Program AND Consent of Department Chairperson.

1 Lecture Hour. 1 Credit Hour.

Offered at: MX

Health Information Technology 206 HIM Seminar II

This course is a capstone course that emphasizes the integration of the knowledge, skills, and abilities developed as a part of the health information management associate degree curriculum. This course specifically focuses on the student's ability to demonstrate a comprehensive, integrated response to simulated scenarios the student will face in the work environment. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Students must be in their last semester of the Associate Degree Program AND Consent of Department Chairperson.

1 Lecture Hour. 1 Credit Hour.

Offered at: MX

Health Information Technology 207**Health Information Management Clinical Practicum**

This course is a practicum course that provides practical experience for students enrolled in the Associates Degree in Health Information Management program. This practicum is focused on the application and synthesis of knowledge, skills, and abilities developed as part of the health information management associate degree curriculum to a healthcare setting. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Concurrent enrollment in HIM 206. Students must be in their last semester of the Associate Degree Program AND Consent of Department Chairperson.

1 Lecture Hour. 1 Credit Hour.

Offered at: MX

Health Information Technology 208**Health Information Database Management**

This course introduces computer applications relevant for use in the HIM health sciences. Emphasis is placed on the use of, health-related software, the Internet, and various spread sheets for interpreting hospital statistics. Upon completion of this course, the student should demonstrate basic competency in the use of computers and HIM related software.

1 Lecture Hour. 2 Lab Hours. 3 Credit Hours.

Offered at: MX

Health Information Technology 209**Pharmacology for HIM Health Professions**

This course provides a framework to understand medications and their administration, and is appropriate for Medical Coding students. This is not an acceptable course for Clinical Nursing, Surgical Technologists, and Emergency Medical Service students. Students will be introduced to an extensive body of knowledge within a limited time frame through a concise yet adaptable format. They will examine drug classifications through their indications, side effects, precautions, and interactions and client education. An introduction to prescription abbreviation will be covered. The increasing need for all health care professionals to provide a clear and accurate patient education will be addressed through highlighted sections and case studies.

Prerequisite(s): Grade of C or better in HIM 102.

2 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: MX

Health Information Technology 211**Intermediate ICD-CM Coding**

This course introduces the student to the basic ICD-CM basic coding guidelines for diagnoses used in hospitals, physician offices and other healthcare settings. By practical application of the official coding guidelines, the student will become familiar with ICD--CM diagnostic coding for all body systems and condition. Topics include the format of ICD--CM practice code assignment, ethical coding principles, and software with practical applications. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in HIM 102.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Health Information Technology 212**ICD-PCS**

This course introduces the theory, structure, and organization of the International Classification of disease using ICD-10-CM/PCS system. Emphasis is placed on the importance of body structure, procedures, application of coding principles and official guidelines for coding and reporting. The student is introduced to Diagnosis Related Groups (DRGs) and their relationship to coding using the encoder. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in HIT 101,102,103,104 AND HEALTH 102.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Health Information Technology 213**Supervisory and Legal Aspects**

Course studies impact of legal system on health information. Focus of this course is on the health record as a legal document, and effect of confidential communication laws, including HIPAA, on release of information and use of health information. Content of this course also includes management principles and supervisory role in healthcare organizations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Earned Advanced Certificate in HIT

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Health Information Technology 214**Quality and Performance Improvement**

Course covers trends in healthcare quality control and performance, Performance Improvement (PI) foundations, fundamentals and principles. It reinforces understanding of PI concepts and issues with case studies and real-world scenarios. Hands-on practice through analytical and practical tools. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Earned Advanced Certificate in HIT

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Health Information Technology 221**Professional Practice I**

Course contains planned and supervised clinical experiences in medical facilities. Opportunity to gain knowledge and skill in admission and discharge procedures, health and vital statistics, coding and abstracting, physician incomplete records, medical transcription supervision, cancer registry, billing site and long term care facilities. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Concurrent enrollment in HIT 109 and HIT 203.

1 Lecture Hour. 9 Lab Hours. 4 Credit Hours.

Offered at: MX

Health Information Technology 222**Professional Practice II**

Continuation of HIT 221. This course provides opportunity to increase proficiency in coding skills, gain knowledge and skill in release information, patient care evaluation procedures, supervisory duties, and ambulatory care settings. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Earned Advanced Certificate in HIT

1 Lecture Hour. 9 Lab Hours. 4 Credit Hours.

Offered at: MX

HEALTH PROFESSIONS (0146)**Health Professions 101****Patient Care Technician Training**

This course is designed for students interested in allied health fields. The course introduces students to the healthcare delivery system, health professions, primary patient care, fundamental clinical skills and healthcare communications. Safety, healthcare professionalism, employability skills, basic infection control, HIPPA, and OSHA are also included. The course will prepare individuals to accurately perform electrocardiograms as a supportive diagnostic procedure. Basic arrhythmia recognition will be taught to enable the student to recognize familiar ECG patterns including major life threatening rhythms. Additionally, the student will learn basic venipuncture techniques and human specimen management for diagnostic purposes. The course will consist of theory and lab experience to promote competence. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better, OR concurrent enrollment in English 101, OR consent. Completion of the H2P orientation program. Current/valid CNA Certification, OR CCC's BNA program and CPR certification. Up to date vaccination history or excepti

4 Lecture Hours. 4 Lab Hours. 6 Credit Hours.

Offered at: MX

Health Professions 102**Health Career Studies**

This course introduces students to the integral knowledge and professional skills required to be successful in healthcare careers. It prepares students for the rigor of healthcare career programs. It emphasizes understanding of the professional culture, retention and application of key foundational skills for professional healthcare practice, application of health information technology, and demonstrating cultural competence in interactions with others. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096 or consent of Program Director or Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

HEALTH SCIENCE (0124)**Health Science 101****Trends & Issues in Health Care Delivery**

Introduction to health care delivery systems. Various health professions will be presented with emphasis on their primary role and how they interact or complement each other in delivery of health care services. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Health Science 102**Professional Medical & Health Care Practices**

This course includes the study of acronyms and current professional jargon used in the medical and healthcare environment. Emphasis includes examination of data used in the delivery of healthcare and the characteristics of the healthcare workforce. Chronic illness and rehabilitative care will be examined as well as primary and specialty care in light of managed care. The process of accrediting and licensure of health science programs will be explored. A case study format involving interdisciplinary health science programs will be reviewed, emphasizing systematic clinical applications. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

HEALTH TECHNOLOGY TC4 (0334)**Health Technology TC4 107****Health and the Public**

Students will examine both historical and contemporary public health stories focusing on the United States to begin to understand the contexts, systems, professionals, tools and skills associated with the public health enterprise. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Health Technology TC4 120**Public Health Study of Disease & Epidemics**

This course is designed to introduce the basic principles surrounding the distribution of disease and epidemics in human populations. Through the use of lectures and field exercises, students will learn the fundamentals of epidemiology, and the basic science of public health. From historical perspectives to current day context, how disease differentially impacts populations will be the focus. Topics covered include surveillance of disease, the distribution of health outcomes (with particular emphasis on health inequities), outbreak investigation, the impact of the media on health outcomes, measurement of health outcomes, study design, and the impact of epidemiologic students on policy development and implementation. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Health Technology TC4 110**Public Health and Global Societies**

The course will introduce students to the main concepts of the public health field and the critical links between global health and social and economic development. Students will be presented with an overview of the determinants of health and how health status is measured. Students will also review the burden of disease, risk factors, and key measures to address the burden of disease in cost-effective ways. The course will cover key concepts and frameworks but will be very practical in orientation. The course will be global in coverage but with a focus on low-and-middle income countries and on the health of the poor. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Health Technology TC4 120**Public Health Study of Disease & Epidemics**

This course is designed to introduce the basic principles surrounding the distribution of disease and epidemics in human populations. Through the use of lectures and field exercises, students will learn the fundamentals of epidemiology, and the basic science of public health. From historical perspectives to current day context, how disease differentially impacts populations will be the focus. Topics covered include surveillance of disease, the distribution of health outcomes (with particular emphasis on health inequities), outbreak investigation, the impact of the media on health outcomes, measurement of health outcomes, study design, and the impact of epidemiologic students on policy development and implementation. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Health Technology TC4 121**Introduction to Community Health Work**

This course provides an overview of the health care system and community health work. Students will gain an understanding of the role of the community health workers, the scope of their function and the types of services they may provide, and how they interact with other health personnel and resources. It includes principles of effective verbal and non-verbal communication to assist students in encouraging positive interaction. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Health Technology TC4 122**Assessing Community Resources**

This course will provide students with a brief overview of public health, its services and core functions in the protection and promotion of health and prevention of diseases and injury. It will include selected international, national and local health organizations that influence public health. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in English 101, CIS 120, 334HLTH 121.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: MX

Health Technology TC4 123 Community Health Problems

This course will focus on developing community leadership and capabilities to identify and address community health needs. This course is designed to help students develop self, client and community capacities to protect and improve health. Emphasis is on building individual and community participation in health through information sharing, informal counseling, social support, health skills instruction, community-wide assessments and promoting changes in negative behaviors. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in English 101, CIS 120, AND 334HLTH 121.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: MX

Health Technology TC4 124 Communicable Diseases

This course will provide students with an overview of communicable disease. It will provide the student with information on prevention, referral courses and treatment. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in English 101, CIS 120, AND 334HLTH 121.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: MX

Health Technology TC4 125 Nutrition, Exercise and Disease

This course will provide students with the information necessary to promote healthy eating styles and proper food preparation for all age groups. This course gives students information about identifying the relationship of diet to disease. Attention is given to the treatment of disease by diet modification. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Health Technology TC4 126 Human Development Overview

This course provides students with information on pre-conceptual, prenatal care, fetal development and newborn care. Students will gain an understanding of the various stages of human development and recognize their role in promoting acceptable standards of health care. This course includes information of the important role parents have in the development of children. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in English 101, CIS 120, AND 334HLTH 121.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: MX

Health Technology TC4 127 Portfolio Development

This course provides students the opportunity to carefully select, purposefully organize their professionally related academic accomplishments. It provides documentation of the student's having met the entry-level competency skill standards for community health workers. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in English 101, CIS 120, AND 334HLTH 121.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: MX

Health Technology TC4 128 Adult and Senior Health

This course will focus on adult health throughout the early, middle and later stages of adult development and health issues. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in English 101, CIS 120, AND 334HLTH 121.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: MX

Health Technology TC4 129 Substance Abuse Issues

This course gives the student an overview of what substance abuse is and how to recognize it. Students will become familiar with misuse and abuse of substances ranging from over the counter medications to highly controlled narcotics. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in English 101, CIS 120, AND 334HLTH 121.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: MX

Health Technology TC4 130 Mental Health Issues

This course will provide an overview of mental issues and concerns of community and families. This course also covers the more prevalent diseases such as depression, domestic violence, developmental delays, alcoholism, etc. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Health Technology TC4 131 Case Management Fundamentals

This course is designed to provide the student with the basic case management skills. The focus of this course is on the main components of case management, outreach, screening, intake, referrals, and follow-up. Students will learn about home visits, universal precautions and handling emergencies on the job and in the community. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in English 101, CIS 120, AND 334HLTH 121.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: MX

Health Technology TC4 132 Field Experience

This course is an introduction to clinical experience in community health that includes field experience and basic skills for working effectively in communities in order to serve as a liaison between health care and social service providers and the communities they serve. It includes providing patient advocacy, utilizing professional communication skills, and incorporating approaches for working effectively with community health agencies such as public health departments, schools, correctional health, and other appropriate agencies. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and enrollment in the CHW Certificate Program-program/plans 716, 717 -OR- 718.

8 Lab Hours. 4 Credit Hours.

Offered at: MX

HISTORY (0085)

History 111

History of American People To 1865

Exploration of the new world and its colonization; study of colonial life with emphasis on cultural heritage and the American Revolution; emergence of American nation traced through major trends and events in economic, political, cultural, social and intellectual affairs; includes past and present American cultural patterns. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: S2 900 GE: Social & Behavioral Sciences

History 112**History of American People From 1865**

American history from the close of the Civil War to the present; political and economic developments, and social, intellectual and cultural changes. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: S2 901 GE: Social & Behavioral Sciences

History 113**United States Labor History**

Labor movements development in the United States; worker issues such as wages, hours, working conditions are analyzed within their historical context; labor legislation, collective bargaining, social insurance, government intervention and prospects for organized labor are examined in their historical setting. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK TR WR

GE: Social & Behavioral Sciences

History 114**The Afro-American In American History**

Role of the African-American in American culture and the historical traditions which give rise to current dilemmas confronting the American community: traces history of people of African heritage from the background of African culture and slave trade as they became a part of American life. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH HW

GE: Social & Behavioral Sciences HD Course

History 115**Afro-American History Since 1865**

Reconstruction period after the Civil War; black politics in the new South; rise of Jim Crow sentiment; alliance of northern industry and southern Bourbonism; early northward migrations and urban culture; growth of civil rights organizations; W. E. B. DuBois and Booker T. Washington; blacks in World Wars I and II; post-war developments. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK MX OH TR HW

GE: Social & Behavioral Sciences HD Course

History 117**History Of Chicago Metropolitan Area**

Evolution of Chicago metropolitan area from frontier outpost to modern metropolis; economic, social, political and cultural changes, analysis of institutions, discussion of current problems requiring solution in context of their historical background. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK HW

GE: Social & Behavioral Sciences

History 118**Women In American History**

Introduction to history of women in America, women's changing status in society; effect of major events and forces on women's lives; women's role in reform; discussion of recent problems in light of past developments. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA HW

GE: Social & Behavioral Sciences HD Course

History 141**History of World Civilization to 1500**

Definition and flowering of the classical civilizations of Eurasia, Africa, and the Americas. Emphasizes environment, cultural diffusion, and technology as shaping forces in world history; empires and trade links; the major religious systems to 1500 C.E. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: S2 912N GE: Social & Behavioral Sciences HD Course

History 142**Hist World Civiliz Frm 1500**

Effects of the military, scientific, industrial, and democratic revolutions on the balance of civilization after 1500 C.E. Topics include: the gunpowder empires; the "Columbian exchange;" colonialism and the price revolution; capitalism and liberalism in global perspective; nationalism and dictatorship; the century of total war; the shifting world balance in the new millennium. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: S2 913N GE: Social & Behavioral Sciences HD Course

History 201**The History of the Mexican People**

This course will survey over a thousand years of Mexican history, beginning with the first migrants from Siberia, followed by the ancient Olmec, Toltec, Mayan and Mexica-Tenochca civilizations, and Spanish colonial rule. In addition, the course will examine the origin and development of Mexican culture. Regional, national and international laws and policies impacting Mexican and Mexican-American communities are analyzed. Concepts such as colonization, nationalism, and globalization's impact on Mexico's peoples are considered from a historical, social and economic perspective. Finally, the course will evaluate class inequalities in Mexico by analyzing the relationship of economics, gender, ethnicity and social class. Writing assignments will be required as appropriate for the discipline.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

History 211**Problems In History**

Methods of historical research; specific subject matter depends on faculty member in charge. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK

GE: Social & Behavioral Sciences

History 212**History & Culture Of China**

Study of Chinese history from Asian dynasties to the present. Political, economic, and cultural structure of traditional Chinese civilization, foreign relations, invasions, and consequences including the rise of the Communist Party and the emergence of modern Communist China. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA MX TR

GE: Social & Behavioral Sciences HD Course

History 215**History of Latin America**

Political and constitutional history of principal Latin American nations; European, American and Indian backgrounds, movements for independence, and social and economic movements pertinent to their present relationships with the United States. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: S2 920N GE: Social & Behavioral Sciences HD Course

History 216**History of Latin America in the U.S.**

History, development and contributions of persons of Latin American origin or ancestry in the United States with emphasis on those of Mexican, Puerto Rican and Cuban background; includes pre-colonial origins in America, Europe and Africa; development of distinct cultures in the Western Hemisphere; migration patterns to the United States; development of communities in the United States and directions in the Chicago area. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA HW

HD Course

History 225**Modern Middle East History**

This course examines the history of the Modern Middle East since World War I by looking at the challenges posed by imperialism and the rise of nationalism in the area. The region studied encompasses the Arab world, Israel, Turkey, and Iran. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

IAI: S2 920N GE: Social & Behavioral Sciences

History 230**Ancient History**

History of ancient Mediterranean civilization from its origins to the fall of the Roman Empire; background of Egyptian, Assyrian, and Babylonian civilizations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA

GE: Social & Behavioral Sciences

History 232**Modern European History 1500-1830**

Medieval backgrounds, the Reformation and religious struggles, the development of nation-state, commercial revolution, colonization and European expansion. Includes the rise of Prussia and Russia and the French Revolution. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

GE: Social & Behavioral Sciences

History 233**Modern European History Since 1830**

Recent European history, includes 19th century background, emphasis on the period following the Versailles Treaty of 1919. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

GE: Social & Behavioral Sciences

History 243**The Far East in the Modern World**

Historical development of China, India, and Japan. Evolution of Oriental culture, economy, society, and government; the relation of America and the Far East, and the impact of Western ideas and institutions on the region. Survey of Philippines, Indo-China, Indonesia and Korea. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK HW

IAI: S2 920N GE: Social & Behavioral Sciences HD Course

History 247**African History to Colonial Period**

Historical background of Africa south of the Sahara; pre-colonial and cultural development including tribal histories, impact of colonialism and development of African nationalism. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: S2 920N GE: Social & Behavioral Sciences HD Course

History 248**African History - Modern Period**

Growth of colonial government; the economic role of colonies; early opposition movements against European imperialism; the psychology of the colonizer and colonized; civil wars and independence. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK MX OH TR HW

IAI: S2 920N GE: Social & Behavioral Sciences HD Course

History 250**Topics in American History**

Selected topics in history for students interested in further developing and understanding specific periods, movements and leaders; emphasis on the social, political, economic, intellectual and philosophical events and implications. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK HW WR

GE: Social & Behavioral Sciences

HORTICULTURE (0096)**Horticulture 101****Intro To Ornamental Horticulture**

Plant structures, terminology and use of identification keys; study of culture and use of annuals, biennials, herbaceous perennials. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: OH

Horticulture 104**Plant Propagation**

Techniques used in reproducing plants, both from seed and vegetative parts; propagating units, factors affecting rooting, growth substances, rooting media and seed treatment; principles of heredity, structure of genetic material and mechanics of transmission, and importance of genetics in hybridization. Writing assignments, as appropriate to the discipline, are part of the course.

4 Lecture Hours. 4 Credit Hours.

Offered at: OH

Horticulture 105**Identification of Herbaceous Landscape Plants**

This course focuses on identification of herbaceous plants used in the landscape. Study the ornamental value, use and culture of annuals, biennials and perennials. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission to the Horticulture program/plan 241.

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: HW

Horticulture 202**Landscape Design I**

Aesthetic and economic importance of grounds improvement, residential and commercial; site analysis, requirements of landscape plans, scale drawings and landscape symbols; nursery classification, selection of plant materials and landscape construction. Writing assignments, as appropriate to the discipline, are part of the course.

4 Lecture Hours. 4 Credit Hours.

Offered at: HW

Horticulture 205**Arboriculture**

Continuation of plants identification, covering use and culture of deciduous and evergreen trees and shrubs. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

HOSPITALITY MANAGEMENT (0330)**Hospitality Management 724****Hospitality Management**

This class focuses on management skills within the hospitality industry including topics such as leadership styles, training and development, work environment, communication and team building. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096 and Math 098 or consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Hospitality Management 806**Customer Service Fundamentals**

This class has a defined focus on how to provide the service that is expected when a person is a guest at a hotel, restaurant, banquet hall, casino or other venue. It covers interactions with guests, responses to difficult situations, service recovery and how to develop better interpersonal skills that will lead to outstanding customer service. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096 AND Math 098.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Hospitality Management 807**Hospitality Financial Management**

Essential managerial accounting functions utilized in the hospitality industry. This class is meant to be a foundation for managers in the hospitality industry. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096 AND Math 098.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Hospitality Management 808**Restaurant Operations**

Fundamentals of basic restaurant management are covered in the course where students are exposed to the entry level front-of-house positions that create the core of operations to the management of those employees and beyond including customer service and financial management. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096 AND Math 098.

3 Lecture Hours. 1 Lab Hour. 4 Credit Hours.

Offered at: KK

Hospitality Management 810**Bar and Beverage Management**

Foundations of creating and maintaining a bar business including equipment, liquor, wine, beer, food pairing, sanitation, employee management, purchasing, receiving and storage, and planning for profit. Emphasis on the importance of revenue generation through alcohol sales in a restaurant while placing a focal point on responsible alcohol service. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096 and Math 098. Grade of C or better in HMG 806,807,808, 330CUL 700,701,703,705,708 and 723, OR Consent of Department Chairperson

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Hospitality Management 812**Hotel and Lodging Operations**

Fundamentals of basic hotel and lodging management are covered in this class where students will learn the duties and responsibilities associated with hotel operations. Departments explored include front desk, housekeeping, sales and marketing, engineering, food and beverage and accounting. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096 and Math 098. Grade of C or better in HMG 806,807, 808, 330cul 700,701,703,705,708, and 723 OR Consent of Department Chairperson.

3 Lecture Hours. 1 Lab Hour. 4 Credit Hours.

Offered at: KK

Hospitality Management 814**Hospitality Procurement**

Comprehensive look at acquisition of goods and services starting from the buyer determining what is needed to the actual receiving of the goods purchased. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096 and Math 098. Grade of C or better in HMG 806,807,808, 330CUL 700,701,703,705,708 AND 723, OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Hospitality Management 816**Introduction to Hospitality Marketing Principles**

Fundamentals and foundations of hospitality marketing. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096 and Math 098. Grade of C or better in HMG 806,807,808, AND 330CUL 700,701,703,705,708, AND 723, OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Hospitality Management 830**Catering and Event Management**

Students will learn aspects of effective planning which in turn leads to successful execution of events and will be exposed to menu design, room selection, cost control, pricing, contracts and managing an event. Sales and marketing, financials, food and beverage service, and staffing will also be covered. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096 and Math 098. Grade of C or better in HMG 806,807,808, AND 330CUL 700,701,703,705,708 and 723, OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Hospitality Management 835**Introduction to Casino Operations Management**

As an introduction to casino organization and culture, this class will explore the history, systems and technology and marketing crucial to casino and gaming operations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096 and Math 098. Grade of C or better in HMG 806,807,808, and 330CUL 700,701,703,705,708, AND 723, OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Hospitality Management 860**Hospitality Internship**

This course is designed to provide employment skills as a concurrent and integral part of a student's educational program in hospitality, culinary and baking and pastry. Students are placed in an approved employment situation mutually agreed upon by the student college staff, and employer, with the opportunity of applying knowledge and being exposed to work methods and settings unavailable in the classroom. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in CUL 701,703,705,708,723 or Grade of C or better in BKPS 767,768,769,770,771 or Grade of C or better in HMG 806,807,808,812.

20 Lab Hours. 4 Credit Hours.

Offered at: KK

A study of the social and psychological aspects of human sexuality. Topics include sexual development, cultural influences, gender identity, sexual dysfunctions, love and relationships. Emphasis will be placed on the mental and emotional aspects of human sexuality as well as current issues. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in PSYCH 201.

3 Lecture Hours. 3 Credit Hours.

Offered at: TR

Human Dev and Family Studies 202**Intimate Relationships**

An overview of theories and research related to intimate/romantic relationships as well as family members, friends, and professional. Students will be encouraged to think critically about the various components of healthy relationships including comparative research within self expectations and effects of such as perpetuated by the media and other sources. Topics include communication, conflict, love, stress, strains, and overall impact on relationships. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in CHLD DEV 101 and CHLD DEV 102.

3 Lecture Hours. 3 Credit Hours.

Offered at: TR

Human Dev and Family Studies 203**Family Development/Cross Cultural Perspective**

Course includes information on families and culture through an examination of research on child development, child rearing across cultures, and issues of equity, power and privilege. Readings and discussion on how culture and context influence all aspects of development whereby students gain in-depth understanding of families and lifestyles, communication and conflict, domestic violence, dysfunctions within families and inter-generational families. Course also provides a knowledge base for family assessment, understanding one's own family, tools to prepare one to work with families in a variety of settings and across the lifespan. Topics such as child rearing, language differences, racial identity, cultural traditions, and socio-economics status will be covered. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in CHLD DEV 101.

3 Lecture Hours. 3 Credit Hours.

Offered at: TR

Human Dev and Family Studies 204**Family Life Education**

Introduction to and history of the professional and practice of family life education, including needs assessment, evaluation of programs, understanding group process, and contexts of family life education. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in CHLD DEV 101.

3 Lecture Hours. 3 Credit Hours.

Offered at: TR

Human Dev and Family Studies 205**Internship for Human Development**

Participation in occupational area of study, work experience under supervision of both college and employer. Internship objectives developed by student and faculty adviser, with approval of employer, to provide appropriate work-based learning experience at the site 15 hours per week. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Completed and accepted application, Grade of C or better in CHLD DEV 101 and 102, all courses in HDFS program including any special certificates.

2 Lecture Hours. 20 Lab Hours. 6 Credit Hours.

Offered at: TR

HUMAN DEV AND FAMILY STUDIES (0168)**Human Dev and Family Studies 201****Human Development and Sexuality**

HUMANITIES (0041)**Humanities 100****Critical Readings in Humanities**

For students with little or no prior exposure to humanistic studies; an opportunity to improve and gain confidence in reading and writing skills in subject areas where creativity and imagination play a much greater part than they do in most basic skills courses. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA

Humanities 105**The New World Of Mass Media**

Analysis and evaluation of the strengths, limitations, impact and social media biases of both print and electronic mass media. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

GE: Humanities

Humanities 107**Pop Cul-Mirror Of Amer Life**

Interdisciplinary investigation of relationships between American life and popular culture; includes defining popular culture, and high culture; role of formulating popular culture in films, role of advertising in popular culture, stereotypes of the sexes and ethnic groups, role of sports in American life, popular music and its audience and television. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: OH HW

GE: Humanities

Humanities 123**Intro To Arts & Ideas**

Interdisciplinary introduction to the arts and ideas through the study of masterpieces past and present. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA HW WR

IAI: HF 900 **GE:** Fine Arts & Humanities

Humanities 141**Afro-American Arts**

Examination of African and Afro-American music, literature, art and philosophy, stressing African sources of Afro-American heritage and their contribution to Western culture. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

GE: Humanities HD Course

Humanities 143**Intro to Latin American/Latino Studies**

This course presents an interdisciplinary study of Latin American cultures, including Latino cultures in the U.S., from literary, artistic and philosophical perspectives. It explores various links between Latino cultures in the U.S. and other Latin American countries through the study of historical and artistic periods, major movements and integrated theories. Writing assignments, as appropriate to the discipline are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: OH TR HW WR

IAI: HF 906D **GE:** Fine Arts & Humanities HD Course

Humanities 144**Introduction to Women's and Gender Studies**

This course is an interdisciplinary introduction to the field of women's and gender studies. Students will investigate, research, learn about and discuss various historical events in feminist history, develop an understanding of various feminist theories and learn how to apply their knowledge and critical inquiry to current events. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH HW WR

IAI: HF 907D **GE:** Fine Arts & Humanities HD Course

Humanities 145**Intro to Diversity/Ethnic Studies**

This course presents an introduction to the broad field of diversity/ethnicity through the interdisciplinary study of art, music, literature, history, and philosophy. This course will emphasize the content, style, and historical context of the various diversity/ethnicity related artifacts, particularly those created by and featuring depictions of diverse/ethnic groups. The course will feature African American, Latino/Latin American, Native American, and European American artists, artistic expressions, and portrayals of these groups in the arts, by themselves and "outsiders" and the impact of these portrayals with the groups and society at large. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

IAI: HF 906D **GE:** Fine Arts & Humanities HD Course

Humanities 146**Gay, Lesbian, Bisexual & Transgendered**

The interdisciplinary interpretation of historic and contemporary creative works (art, drama, film, literature, and music) with Gay, Lesbian, Bisexual and Transgendered themes, primarily by multicultural GLBT authors and artists of the Americas. Analysis of GLBT culture from the perspective of Queer theory. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: TR

IAI: HF 907D **GE:** Fine Arts & Humanities

Humanities 201**General Course I Humanities**

Introduction to the interdisciplinary study of arts and ideas, with emphasis on principles of analysis and interpretation. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: HF 900 **GE:** Fine Arts & Humanities

Humanities 202**General Course II Humanities**

Continuing the interdisciplinary study of arts and ideas; with emphasis on principles of analysis and interpretations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: HF 901 GE: Fine Arts & Humanities

Humanities 203**Arts of Contemporary America**

Analysis and evaluation of major art forms of today - film, television, poster art, journalism, poetry, fiction, painting and music. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

IAI: HF 900 GE: Fine Arts & Humanities HD Course

Humanities 205**World Literature I**

Masterpieces of world literature including principal works from selected literary periods and traditions. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK OH TR HW WR

IAI: H3 906 GE: Humanities HD Course

Humanities 206**World Literature II Existentialism**

Introduction to Existentialist philosophers, dramatists, and novelists. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

GE: Humanities

Humanities 207**The Great Books**

For students who seek enrichment through acquaintance with formulation and ideas of Western civilization. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK HW WR

IAI: H3 907 GE: Humanities

Humanities 208**Women In Creative-Performing Arts**

Examination of the changing views of woman's nature, her relationship to man and to society as found in the creative and performing arts and philosophical works of a specific culture or cultures. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

IAI: HF 907D GE: Fine Arts & Humanities HD Course

Humanities 210**Comparative Mythology**

A comparative introduction to mythology throughout the world. The emphasis is on the nature of mythology through the study of mythological themes in folklore, myth, and legendary narratives and the visual representation of those themes. The course includes non-Western and multi cultural components. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK MX TR HW WR

IAI: H9 901 GE: Humanities HD Course

Humanities 212**Non-Western Humanities**

An interdisciplinary survey of significant intellectual and artistic achievements of non-Western cultures through selected works of literature, philosophy, visual art, music and other performing arts. This course transfers as Illinois Articulation Initiative general education generic course numbered HF 94N: Non-Western Humanities. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK MX TR HW WR

IAI: HF 904N GE: Fine Arts & Humanities HD Course

Humanities 213**Hispano - American Arts & Literature I**

This course is an interdisciplinary survey of significant intellectual and artistic achievements of Hispano-American cultures through selected works of literature, philosophy, visual arts, music, and other performing arts. Reading and analysis of representative masterpieces from a variety of nationalities and epochs focusing on Western literature. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

IAI: HF 900 GE: Fine Arts & Humanities HD Course

Humanities 214**Hispano - American Arts & Literature II**

This course continues the studies of Hispano-American Arts and Literature I, an interdisciplinary survey of significant intellectual and artistic achievements of Hispano-American cultures through selected works of literature, philosophy, visual arts, music, and other performing arts. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

IAI: HF 901 GE: Fine Arts & Humanities HD Course

Humanities 215**The Art and Philosophy of the African Continent**

African culture of the past and present including art, music, literature, history, language, political science and economics. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: OH HW

IAI: HF 904N GE: Fine Arts & Humanities HD Course

Humanities 216**Athletics in the Ancient World**

A survey of ancient events that emphasizes the role of sports in ancient societies. The course focuses on various aspects of athletics and provides a comparative examination of ancient and modern sports activities and athletic values. Some topics will include: sportsmanship in the ancient world, rules of the games, training and competing, women in ancient athletics, religion in ancient athletics, and athletics in ancient myth. Students will examine and discuss many types of ancient evidence, including readings in translation from several ancient literary texts, paintings, sculpture, and archeological remains. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

IBEW (0432)**IBEW 702****Electrical Circuitry**

This course will include a study in circuitry used in the residential housing industry in the Chicago metropolitan area. Installation practices. Practical hands-on wiring skills such as splicing and termination will be taught. The students are expected to apply themselves, learn and accomplish entry levels of proficiency in these subject areas. Writing assignments, as appropriate to the discipline, are part of the course.

3.5 Lecture Hours. 3 Lab Hours. 4.5 Credit Hours.

Offered at: DA

IBEW 703**Conduit Bending I**

This course is designed to teach the student the various methods of bending conduit employed in the electrical construction industry. The focus of the course is on hand-type benders and methods of conduit installation utilized in the commercial, industrial and residential housing industry. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 4.5 Lab Hours. 3.5 Credit Hours.

Offered at: DA

IBEW 704**Construction Technology**

This course will include a study of common hardware and wiring materials used in the electrical construction industry. This course will include first aid, personal safety, and job site safety; the use of rope, knot tying, and basic rigging; drill gauges, drilling and tapping holes in metal, and drill sharpening; using knockout sets, hole saws, concrete anchors and fastening devices; and the use and care of hand tools, drill motors, hammer drills and grinding wheels. Writing assignments, as appropriate to the discipline, are part of the course.

3.5 Lecture Hours. 3 Lab Hours. 4.5 Credit Hours.

Offered at: DA

IBEW 705**Print Reading I**

Upon completion of this course the student will have gained a thorough knowledge of residential prints and their use with the National Electrical Code. Writing assignments, as appropriate to the discipline, are part of the course.

3.5 Lecture Hours. 3.5 Credit Hours.

Offered at: DA

IBEW 706**Conduit Bending II**

Upon completion of this course the student will have gained skills in advanced conduit bending techniques utilizing mechanical leverage benders and hydraulic benders commonly used in the electrical construction industry. Hand-operated and automatic cutting and threading devices will also be mastered. Writing assignments, as appropriate to the discipline, are part of the course.

2.5 Lecture Hours. 3 Lab Hours. 3.5 Credit Hours.

Offered at: DA

IBEW 707**Fire Alarm Systems**

Upon completion of this course the student will have mastered the basic concepts and theory of installation and maintenance of fire alarms systems and fire suppression systems currently in use in the electrical construction industry. Testing, troubleshooting and safety techniques through hands-on training and field simulated problems are developed. The course will also discuss the Chicago and National Electrical Codes as they pertain to the installation and maintenance of fire alarm systems. Writing assignments, as appropriate to the discipline, are part of the course.

2.5 Lecture Hours. 3 Lab Hours. 3.5 Credit Hours.

Offered at: DA

IBEW 708**Motor Control Systems**

Upon completion of this course the student will have mastered the basic concepts and theory of installation, operation, and maintenance of motor control devices commonly used in the electrical construction industry. Skills in testing, troubleshooting, and safety techniques will be developed through hands-on training and the use of field simulated problems. In addition, this course includes a discussion of the theory and the practical application of transformers as used in the electrical industry. Writing assignments, as appropriate to the discipline, are part of the course.

2.5 Lecture Hours. 3 Lab Hours. 3.5 Credit Hours.

Offered at: DA

IBEW 709**Print Reading II**

Upon completion of this course the student will have gained through knowledge of, commercial and industrial construction prints and their use with both the Chicago Electrical Code and National Electrical Code. Writing assignment, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA

IBEW 710**Programmable Control**

Upon completion of this course the student will have mastered the basic concepts and theory of installation, operation, and maintenance of programmable control systems commonly used in the electrical industry. Programming techniques and hands-on training will be provided in the lab on Allen-Bradley systems PL5/20, PLC5/11, and SLC 5/03 CPU programmable controllers. Writing assignments, as appropriate to the discipline, are part of the course.

3.5 Lecture Hours. 3 Lab Hours. 4.5 Credit Hours.

Offered at: DA

**IBEW 711
Communications**

The BICSI Installer level telecommunications cabling installation training is designed for individuals with 2 to 5 years of low voltage cabling experience. The class combines lecture with hands-on skills practice using tools and equipment provided in class. The following areas are covered: ANSI/TIA/EIA wiring Standards and the National Electrical Code. LAN cabling system characteristics and network topologies, media and media characteristics, transmission fundamentals, connectorization, grounding and bonding, pulling and terminating copper and fiber, testing and troubleshooting copper and fiber, splicing fiber, fire stopping site surveys and safety practices. There will be a final examination and a period of structured on-the-job training to be completed at the student's workplace. Writing assignments, as appropriate to the discipline, are part of the course.

2.5 Lecture Hours. 4.5 Lab Hours. 4 Credit Hours.

Offered at: DA

**IBEW 712
HVAC Systems**

Upon completion of this course the student will have mastered the theory of thermal dynamics and the processes used in the heating, ventilation and air-conditioning systems. Hands-on training is an integral part of the course. The course will cover skills in piping, brazing, soldering, and the E.P.A. standards for charging, and evacuating air-conditioning and refrigeration systems. This course meets the Refrigeration Service Engineers Society Technician Certification Standard. The midterm examination shall be the R.S.E.S. Technician Certification test. It will be mandatory to pass the R.S.E.S. Technician Certification test before becoming a journeyman. Writing assignments, as appropriate to the discipline, are part of the course.

3.5 Lecture Hours. 3 Lab Hours. 4.5 Credit Hours.

Offered at: DA

**IBEW 713
Instrumentation**

Upon completion of this course the student will have mastered the basic concepts and theory of installation, operation, and maintenance of instrumentation control process commonly used in the electrical construction industry. The student will master the theory of flow, pressure, temperature, and level. Calibration techniques are taught through hands-on training, bench testing, and lab work with a variety of instruments, the Fluke 702 Calibrator and the Rosemount Communicator. Writing assignments, as appropriate to the discipline, are part of the course.

3.5 Lecture Hours. 3 Lab Hours. 4.5 Credit Hours.

Offered at: DA

**IBEW 714
Technical Math I**

Upon completion of this course the student will have mastered the calculations and applications of the formulas used daily in the first year apprentice course of study and in the electrical construction industry. Writing assignment, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA

**IBEW 715
Technical Math II**

Upon completion of this course the student will have mastered code calculations and problem solving techniques used in the application of Ohm's Law in accordance with the National Electrical Code. Writing assignment, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA

**IBEW 716
Electronics**

This course covers basic electronic and its application to the communications industry. The course will cover basic electric theory, direct current, alternating current, Writing Ohm's Law, the use and calibration of electrical test equipment, electrical safety, soldering skill, series, parallel and combination circuits, and

electronic components. Writing assignments, as appropriate to the discipline, are part of the course.

3.5 Lecture Hours. 3 Lab Hours. 4.5 Credit Hours.

Offered at: DA

**IBEW 717
Structured Wiring**

This course provides the student with a thorough knowledge of the wiring materials commonly used in the communications industry. This course provides instruction on personal safety, jobsite safety and shop safety as it applies to the communications industry. In addition, there will be instruction in applicable EIA/TIA standards, BICSI requirements, media characteristics, transmission characteristics, fire protection, documentation, grounding, bonding, electrical protection, and other relevant industry practices. Upon satisfactory completion of the course, the student will be eligible for the BICSI Level I Installer Examination. Writing assignments, as appropriate to the discipline, are part of the course.

3.5 Lecture Hours. 3 Lab Hours. 4.5 Credit Hours.

Offered at: DA

**IBEW 718
Integrated Systems I**

This course will introduce the student to the basic concepts and theory of digital and analog based audio communications systems. This course will cover skills in installation, balancing, testing and troubleshooting of audio communications equipment. Included are constant voltage audio systems, paging systems, background music systems, and sound reinforcement systems. Writing assignments, as appropriate to the discipline, are part of the course.

2.5 Lecture Hours. 3 Lab Hours. 3.5 Credit Hours.

Offered at: DA

**IBEW 719
Integrated Systems II**

This course will cover the basic concepts and theory of transmission and distribution of digital and analog based video signals. This course will cover transmission line theory and signal propagation along with installation, testing and troubleshooting of video communications equipment. Writing assignments, as appropriate to the discipline, are part of the course.

3.5 Lecture Hours. 3 Lab Hours. 4.5 Credit Hours.

Offered at: DA

**IBEW 720
Communication Systems Verification**

This course covers the testing, benchmarking and troubleshooting of fiber optic and copper based communications systems. Also covered are the proper use of field test equipment, electrical safety, transmission characteristics, fault location and analysis of field test results. Writing assignments, as appropriate to the discipline, are part of this of course.

2.5 Lecture Hours. 3 Lab Hours. 3.5 Credit Hours.

Offered at: DA

**IBEW 721
Fiber Optics**

This course covers the basic concepts and theory of digital transmission of communications over fiber optic communications cabling. This course will cover skills in installation, testing and troubleshooting of fiber optic connectors and cabling systems. This course meets the Fiber Optic Association Certification standards for Fiber Optic Association Certification standards for fiber optic installation. Writing assignments, as appropriate to the discipline, are part of this course.

2.5 Lecture Hours. 3 Lab Hours. 3.5 Credit Hours.

Offered at: DA

IBEW 722**Computer Networking**

This course provides the student with an overview of the basics of networking from the component hardware to the topology and theoretical foundation of networks. Various types of networks and network topologies will be covered. Writing assignments as appropriate to the discipline, are part of this course.

3.5 Lecture Hours. 3 Lab Hours. 4.5 Credit Hours.

Offered at: DA

IBEW 723**Industrial Control Systems**

Upon completion of this course, the student will be proficient in the field of industrial control and planning. Industrial control training will focus on modern systems incorporating feedback loops, analog and pneumatic signals, and the smart family of transmitters. The dominant process variables -- temperature, pressure, level, and flow -- will be employed in the development of these skills. The planning section of this course will cover electrical layout with an emphasis on initial conduit installation, reading blueprints of various building trades, calculating loads based on the electrical code, designing distribution systems, and sizing and protecting electrical conductors. Writing assignments, as appropriate to the discipline, are part of the course.

3.5 Lecture Hours. 2 Lab Hours. 4.5 Credit Hours.

Offered at: DA

IBEW 724**Electrical Power Systems**

Upon completion of this course, the student will have mastered the theory of distribution and usage of electricity in common industrial settings. Hands-on training is an integral part of the course. The student will learn the basics of power distribution with an emphasis on transformers and the four basic power systems: delta, corner grounded delta, high leg delta, and wye. The student will learn about the largest user of this distributed power: rotating equipment - motors. The motors portion of the course covers single phase and three phase motors. The single phase motors include shaded pole, AC series, permanent split capacitor and motors with starting relays. The three phase motors include wye, delta and wye/delta motors. Finally, the students will learn the newest technique for motor control, variable speed drives. The course will cover the theory of pulse width modulation and the safe operation of frequency drive motors. The student will learn about line lengths, over voltage, overheating, harmonics, and drive components. Writing assignments, as appropriate to the discipline, are part of the course.

3.5 Lecture Hours. 2 Lab Hours. 4.5 Credit Hours.

Offered at: DA

IBEW 725**Low Voltage Systems**

Upon completion of this course, the student will have mastered the basic concepts and theory of the installation and maintenance of low voltage systems currently in use in the electrical construction industry. Installation, testing, troubleshooting and safety techniques through hands-on training and field simulated problems are developed. This course will cover topics in security, life safety, access, environmental controls, communications, data transfer, and data storage. The associated electrical codes are included in daily discussions as they pertain to installation and maintenance of low voltage systems. Writing assignments, as appropriate to the discipline, are part of the course.

2.5 Lecture Hours. 3 Lab Hours. 3.5 Credit Hours.

Offered at: DA

INTEGRATED COMMUNICATION (0139)**Integrated Communication 100****Integrated Communication St**

This course prepares students to successfully complete the General Education communication sequence of English 101 and English 102 by providing necessary critical reading, writing, and thinking skills. The course will address the writing process, critical reading strategies, rhetorical strategies, metacognition, academic literacy, and conventions of academic discourse, and, as needed, issues of grammar, structure and style. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ENGLISH 098 and READING 099, CCCRTW 2+, or COMPASS e-Write (5-6) and Reading (50 or >), or CCC Writing score of 3+ and Reading (50 or >), or Consent of Dept Chair.

6 Lecture Hours. 6 Credit Hours.

Offered at: HW

INTERDISCIPLINARY STUDIES (0104)**Interdisciplinary Studies 101****College Success Seminar**

Introduction to academic skills that foster success in college and after college, critical thinking, reading, and writing as well as study skills, time management and stress management, use of technology for communication and research. These skills will be learned through the topic of the course which will be based in the idea of "Self and Community," but will vary depending on the instructor and department teaching the course. Topics will be approached from a variety of perspectives that represent interdisciplinary academic inquiry, and students will consider how to take personal responsibility for academic and career choices through exploration of relationship between self and community. Students will be required to do either twelve hours of service learning related to the content of the course, or to meet other criteria for an equivalent number of hours spent in outside activities as determined by the instructor. Writing assignments, as appropriate to the discipline, are part of the course.

1 - 3 Lecture Hours. 1 - 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Interdisciplinary Studies 102**Career Development and Decision Making**

This course helps students develop additional skills to aid in the transition from being a college student to being an employee. Learners will identify personal challenges that might affect their success and develop specific plans to address them. Overall, students will use critical thinking and self-reflection to develop soft skills that enhance employment preparedness. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096 or Consent of Department Chairperson.

1 - 3 Lecture Hours. 1 - 3 Credit Hours.

Offered at: DA KK OH HW WR

Interdisciplinary Studies 103**News Literacy and Civic Engagement**

Fundamental critical evaluation of diverse news formats through the application of information literacy and media literacy. Topics explored in relation to the culture of civic engagement. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH HW WR

Interdisciplinary Studies 104**College Success: Special Topics**

This course introduces students to the expectations of the college community and helps them develop skills that promote success during and after their college career. Topics will include note-taking methods, study and test-taking strategies, problem solving and critical thinking, oral communication, use of technology and library resources, campus support services, time and stress management strategies, and career exploration. Students will also learn the importance of taking personal responsibility for their academic and career choices. Topics may be approached from a variety of interdisciplinary perspectives that focus on connecting individuals to their local and global communities. Through assignments that integrate community engagement, service learning, and/or on-campus service projects, students will make connections between their coursework and their lives. ARC: 3 times.

1 Lecture Hour. 1 Credit Hour.

Offered at: KK MX OH TR HW WR

Interdisciplinary Studies 299 Interdisciplinary Studies and Service

Students will engage in independent study to augment their educational plan. The course will engage students in service related projects and support activities such as professional networking, scholarly research, and attendance at seminars. Students will work outside the classroom setting and learn to become a practitioner in their field. Writing assignments, as appropriate to the discipline, are part of the course. This course is an allowed repeatable course, and may be repeated up to three times, and count for a maximum of 9 credit hours.

Prerequisite(s): Eligibility for English 101 AND Consent of Department Chairperson.

1 - 3 Lecture Hours. 1 - 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

ITALIAN (0052)

Italian 101 First Course Italian

Pronunciation and basic structures, speech patterns, reading, and writing skills. Writing assignments, as appropriate to the discipline, are part of the course.

4 Lecture Hours. 4 Credit Hours.

Offered at: DA HW

HD Course

Italian 102 Second Course Italian

Continuation of Italian 101. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): ACTFL Writing Proficiency Test (Score 2.00), or Placement test, or Italian 101, or Consent of Department Chairperson.

4 Lecture Hours. 4 Credit Hours.

Offered at: DA HW

HD Course

Italian 103 Third Course Italian

Review and development of basic language skills, conducted in Italian. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Placement test, or Italian 102, or Consent of Department Chairperson.

4 Lecture Hours. 4 Credit Hours.

Offered at: DA HW

HD Course

Italian 104 Fourth Course Italian

Review of language structure and interpretation of readings, conducted in Italian. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Placement test, or Italian 103, or Consent of Department Chairperson.

4 Lecture Hours. 4 Credit Hours.

Offered at: DA HW

IAI: H1 900 GE: Humanities HD Course

JAPANESE (0054)

Japanese 101 First Course Japanese

Pronunciation and basic structures, speech patterns, reading, and writing skills. Writing assignments, as appropriate to the discipline, are part of the course.

4 Lecture Hours. 4 Credit Hours.

Offered at: HW

HD Course

Japanese 102 Second Course Japanese

Continuation of Japanese 101. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Placement test, or Japanese 101, or Consent of Department Chairperson.

4 Lecture Hours. 4 Credit Hours.

Offered at: HW

HD Course

Japanese 103 Third Course Japanese

Review and development of basic language skills, conducted in Japanese. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Placement test, or Japanese 102, or Consent of Department Chairperson.

4 Lecture Hours. 4 Credit Hours.

Offered at: HW

HD Course

Japanese 104 Fourth Course Japanese

Review of language structure and interpretation of readings, conducted in Japanese. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Placement test, or Japanese 103, or Consent of Department Chairperson.

4 Lecture Hours. 4 Credit Hours.

Offered at: HW

IAI: H1 900 GE: Humanities HD Course

LATIN COURSES (0142)

Latin Courses 101 First Course Latin

This course is the study of the Latin language that includes mastery of vocabulary and grammar, accidence, syntax, and etymology. The course focuses on developing skills and strategies for acquiring new vocabulary and the understanding of sentence structure that increases the student's readiness to acquire other languages, related and non-related, and provides techniques that students can apply in many other fields. Students will analyze Latin roots of English words, parse and translate passages from Latin literature, recognize derivatives found in the Romance languages, and discuss the cultural content. (This course transfers to a the four-year state universities as elective credit.) Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

4 Lecture Hours. 4 Credit Hours.

Offered at: KK WR

Latin Courses 102 Second Course Latin

This course is the study of more complex grammatical and syntactical constructions. The course will increase the student's Latin vocabulary and understanding of etymology. Students will analyze Latin roots and English words, parse and translate more difficult passages from actual works of Latin literature, and continue to recognize derivatives found in the Romance Languages. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Latin 101 with a C grade or better or Consent of Department Chairperson.

4 Lecture Hours. 4 Credit Hours.

Offered at: KK

LIBRARY & INFORMATION SCIENCE (0039)**Library & Information Science 101**
Information Literacy

This course is to help students gain the information literacy skills that enable them to find, retrieve, gather, analyze, and use information so they can prosper as a student, citizen and life-long learner. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK OH HW

Library & Information Science 105
Information Literacy Basics

This course is to help students gain the information literacy skills that enable them to find, retrieve, gather, analyze, and use information from a variety of print and electronic sources so they can prosper as students, citizens and life-long learners. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 100, or Grade of C or better in English 98, or Consent of Department Chairperson.

1 Lecture Hour. 1 Credit Hour.

Offered at: DA KK MX OH TR HW WR

LIBRARY TECHNOLOGY (0050)**Library Technology 101**
Intro To Library Procedures

Vocabulary, tools, systems, organization and equipment of modern libraries. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Library Technology 102
Multi-Media Technologies

Clerical and supervisory duties in scheduling, circulation, maintaining, and operation of audio-visual and reproducing equipment. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Library Technology 125
Learning Resource/Library Practicum

Practice course in which students are placed in learning resource center/library situations. 20 hours per week plus two hour seminar. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in LIB TECH 101.

1-2 Lecture Hours. 10-20 Lab Hours. 3-6 Credit Hours.

Offered at: WR

Library Technology 201
Library Public Service

Clerical and supervisory duties required in reference and circulation areas. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Library Technology 203
Materials Preparation Procedures

Clerical and supervisory duties required in catalog departments; familiarization with commercially produced card catalog sets, classification tables and indices, subject headings, filing, cross referencing, typing forms and records. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in LIB TECH 101.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Library Technology 250
Systems & Computr Technology of Libraries

Clerical informational and supervisory duties required in reference, circulation, ordering, receiving and verifying library materials. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

LINGUISTICS (0132)**Linguistics 101**
Language And Culture

Examines the relationship between language and culture. Includes the language socialization of children, gender differences in language, standard varieties and dialects of language, the effects of language on thought, and the nature of language in personal relationships. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: TR HW

Linguistics 102
Introduction To Linguistics

A general introduction to the theory of language, this course will focus on language systems, with particular attention to phonology, morphology, syntax, semantics, and regional and social varieties of English. Examples of general linguistic principles will be drawn from English as well as other languages known to those who teach the course. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: TR HW

Linguistics 103
Instructional Media Second Language Teachers

Introduction to a variety of instructional media used in classrooms and learning centers. Includes creative and effective use, adaptive application of materials, selection and evaluation, use and maintenance, and special techniques and devices for class instruction. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (CIS 101 or CIS 120), or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: TR

LITERATURE (0036)**Literature 110**
Introduction To Literature

Introduction to Literature Representative poetry and prose. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: H3 900 GE: Humanities

Literature 111**Poetry**

Reading of representative poems from various periods for analysis. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: H3 903 GE: Humanities

Literature 112**Drama**

Reading of representative plays from various periods for analysis. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: H3 902 GE: Humanities

Literature 113**Fiction**

Reading of representative novels and short stories from various periods for analysis. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: H3 901 GE: Humanities

Literature 114**Ideas In Prose**

Introduction to significant prose writing in major areas of thought. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX HW

IAI: H3 904 GE: Humanities

Literature 115**Great Books Seminar/Topics Literature**

This course focuses on the Great Books Foundations and Great Books texts and examines in-depth the global themes in the literature for enrichment, stimulation, pleasure and greater self-knowledge. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Course may be repeated up to three times and may count for a maximum of 12 credit hours. Consent of Department Chairperson required for repeatability.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

IAI: H3 907 GE: Humanities

Literature 116**American Literature from Colonial Days to Civil War**

Early American social and political documents, novels, short stories and poems. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK HW WR

IAI: H3 914 GE: Humanities

Literature 117**American Literature from the Civil War to the 20th Century**

American prose and poetry from 1865 to 1914. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK TR HW WR

IAI: H3 915 GE: Humanities

Literature 118**English Literature from its Beginnings to the Age of Johnson**

Important writers and representative literary forms. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

IAI: H3 912 GE: Humanities

Literature 119**English Literature from the Romantic Revival to the 20th Century**

Important writers and representative literary forms. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK HW WR

IAI: H3 913 GE: Humanities

Literature 120**Contemporary British & American Literature**

Major British and American writers of fiction, poetry and drama of the 20th century. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

GE: Humanities

Literature 121**Contemporary African American Literature**

Survey of major African-American writers from the period of Harlem Renaissance to present day. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: H3 910D GE: Humanities HD Course

Literature 122 Perspectives in Black Literature

Sequence and scope of writing development by blacks in America; analysis and interpreting of major works of prose, poetry and drama. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK MX

IAI: H3 910D GE: Humanities HD Course

Literature 123 Literature of the U.S. from the Civil War to the Present

Development of the literature of the United States from the Civil War to the present through the analysis of representative texts.

3 Lecture Hours. 3 Credit Hours.

Offered at: OH

IAI: H3 915 GE: Humanities

Literature 124 Experimental Literature

New directions in writing; experiments in poetry, prose, drama and exploratory writing. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA

GE: Humanities

Literature 125 Psychology in Black Literature

Analysis of books by African-American writers from a psychological point of view; begins with autobiography of Frederick Douglass, concludes with black experiences by contemporary writers Cleaver and Jones. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

GE: Humanities HD Course

Literature 126 Contemporary American Literature

Major American writers of fiction, poetry, drama, and essays of the 20th Century. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX TR HW WR

IAI: H3 915 GE: Humanities

Literature 127 Contemporary British Literature

Major British, Irish and Scottish writers of fiction, poetry, drama and essays of the 20th century. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

IAI: H3 913 GE: Humanities

Literature 128 Latin American Literature

This course spans the centuries and the Western Hemisphere. It includes the pre-Columbian Mayan Indian authors of Popol Vuh and the world-renowned contemporary practitioners of magic realism. The course includes authors from Mexico, the Caribbean, Central America, and South America. Close attention will be paid to the historical and cultural context of the works. Readings, lectures, and course work will be in English. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA MX TR HW WR

IAI: H3 908N GE: Humanities HD Course

Literature 129 U.S. Latino (a) Literature

This course explores the trends and movements of various periods of U.S. Latino(a) literature in relation to U.S. Latino(a) social and cultural history. As part of the literature of the United States, these works are distinct from, although sometimes influenced by, Latin American literature, which is written in Spanish or Portuguese by authors native to Latin American and Caribbean countries. The U.S. Latino(a) texts in this course -- poetry, fiction, drama, memoir, and chronicle -- depict various issues and themes pertinent to this ethnic segment of the United States, including Latino(a) writers' stylistic and thematic contributions to American mainstream literature. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK HW WR

IAI: H3 910D GE: Humanities HD Course

Literature 130 Children's Literature

Survey of children's books, stories, magazines and related audio-visual material; criteria evaluated for building literature program within the classroom. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: TR HW

IAI: H3 918 GE: Humanities

Literature 131 Survey Of Afro-American Poetry

Historical and critical survey of African-American poetry; minor emphasis on Harlem Renaissance and major emphasis on contemporary African-American arts movements. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

IAI: H3 910D GE: Humanities HD Course

Literature 132 Native American Literature

Emphasizing perceptions and perspectives, this introductory course will examine the construction of Native American identity by exploring the works of different Native American writers and filmmakers. It will carry out its pursuit by engaging with and interrogating the Eurocentric view of the Native Americans and the Native Americans' view of themselves. The course will emphasize the history, style, and content of the literature, situating it in a political, social, and cultural context. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

IAI: H3 910D GE: Humanities HD Course

Literature 133 African American Fiction

Aesthetic values that determine quality of fiction written by African-Americans who profess a national consciousness; short fiction from anthologies, environment, style and social implications emphasized; critical and creative writings required. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

GE: Humanities HD Course

Literature 137 The Black Woman In Black Fiction

Exploration of images of the African-American woman in novels and short stories through lectures, discussion, and optional out-of-class group sessions. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK HW

IAI: H3 911D GE: Humanities HD Course

Literature 150 Women's Literature

Ideas and philosophy of women writers as represented in their works; problems of women and works portraying women characters in modern British and American works. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: H3 911D GE: Humanities HD Course

Literature 153 Gay and Lesbian Literature

Guided each year by a central sub-theme of the larger Queer culture, this course focuses on literary works by gay, lesbian, bisexual and transgendered individuals. Students will learn and combine principles of argumentation, making clear distinctions between emotion and rationality, in their responses (in both oral and written form) to course content. As historical and cultural content for those readings are provided, the course will examine the authors' theories (for instance, on topics related to class, race and gender) and the extent of their relevance in contemporary Queer Culture. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

IAI: H3 911D GE: Humanities HD Course

Literature 155 Literature and Film

Analysis of literature in film; comparison of literary and film techniques, verbal and visual language, and film and modern literature. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK OH TR HW WR

IAI: F2 905 GE: Fine Arts & Humanities

Literature 156 Creative Non-fiction

A survey course of creative nonfiction in a variety of forms; personal narrative essays, true crime nonfiction novels, and first person cultural criticism. This course introduces students to a genre of literature, to practical approaches to the determination of literary meaning, and to the concerns of literature in general. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

IAI: H3 904 GE: Humanities

Literature 157 Graphic Novels

The world of graphic novels is a vast universe of stories ranging from the realistic and contemporary to the supernatural and historical. Students will read and discuss representative works with some attention to critical work and increase their enjoyment and appreciation of a variety of graphic novels, genres and creators while determining literary meaning, form, and value. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Literature 211 Shakespeare

Critical reading and discussion of representative Shakespearean histories, tragedies, comedies and sonnets. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK TR HW WR

IAI: H3 905 GE: Humanities

Literature 220 World Literature

Survey of masterpieces in world literature: principal works and writers, literary periods, and traditions with selections from ancient times through present day. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA

IAI: H3 906 GE: Humanities

Literature 223**Intro To Literary Genres**

Introduction to basic literary genres and their characteristics. Includes development of critical judgment and skill in analysis of literary works. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA

GE: Humanities

Literature 299**Science Fiction: Psychology & Prophecy**

A survey of major writers of science fiction. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA

GE: Humanities

LOGISTICS/TRANSPORTATION/DISTR (0330)

Logistics/Transportation/Distr 111**Introduction to Diesel Technology**

This course introduces the student to the fundamentals of basic, personal and shop safety industry requirements for Diesel Technology. In this course the student will learn to identify, use and care for hand and power tools commonly found in the diesel repair industry. Students will gain an understanding of the basic movement and parking procedures of vehicles and equipment. They will also learn about the history of the industry and explore career and employment opportunities in dealerships and independent shops, from maintenance to major overhaul. Additional topics of discussion include hazardous material handling and storage. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and Math 107.

3 Lecture Hours. 3 Credit Hours.

Offered at: OH

Logistics/Transportation/Distr 112**Diesel Electrical Systems I**

This course will include electrical safety practices; tool use; connecting and disconnecting techniques; direct current symbols, components, and schematics; principles of DC voltage and current; Ohm's Law; and troubleshooting, repairing and calibration of electrical/electronic systems. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and Math 107. Grade of C or better in 330TRNS 111 and 330TRNS 113.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: OH

Logistics/Transportation/Distr 113**Introduction to Diesel Engine Construction**

In this course students will learn the fundamentals of engine operation, diagnosis and repair including lubrication systems and cooling systems. Emphasis on overhaul of selected engines, identification and inspection, measurements, disassembly, repair and reassembly of the engine. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and Math 107.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: OH

Logistics/Transportation/Distr 114**Diesel Engine Construction I**

This course will provide students with concepts and skills required for engine construction, tune-up and troubleshooting procedures of diesel engines. Students will gain an understanding of alphanumeric coding and the integration of additional foundational skills required to identify and repair diesel engines. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and Math 107. Grade of C or better in 330TRNS 111 and 330TRNS 113.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: OH

Logistics/Transportation/Distr 115**Suspension and Steering**

This course will introduce students to the basic fundamental skills, technology, and service of automotive suspension and steering systems. Areas of studies include; diagnosis and repair of steering systems, diagnosis and repair of front suspension systems, diagnosis and repair of rear suspension systems, miscellaneous suspension and steering systems, and diagnosis and adjustment of wheel alignment. Group and individual activities engage students in problem-solving techniques and manipulative skills while completing industry related activities. Safety instruction is integrated into all activities. Students will also learn to identify and describe various steering systems used on diesel-powered vehicles and have an opportunity to inspect, diagnose, and repair steering problems. They will make needed repairs on the suspension system and perform wheel alignments. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and Math 107. Grade of C or better in 330TRNS 111 and 330TRNS 113.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: OH

Logistics/Transportation/Distr 116**Diesel Brakes**

This course is designed to provide the student with an introduction to the basic principles of brake systems of diesel powered equipment. Emphasis is on maintenance, repairs and troubleshooting. The student will apply knowledge and understanding of the basic theory and operation of the brake systems, diagnose brake components for wear and usability, repair brake components by rebuilding or replacing parts, and adjust brake components. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and Math 107. Grade of C or better in 330TRNS 111,112,113,114,115, AND PHY SCI 112.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: OH

Logistics/Transportation/Distr 209**Diesel Electrical Systems II**

This course will include the study of DC resistance and conductors, principles of DC circuits, fundamentals of alternating current and semiconductors, basic electronic circuits, and digital electronics. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: OH

Logistics/Transportation/Distr 211**Diesel Preventive Maintenance**

This course introduces the student to the knowledge base and technical skills for all courses in the diesel preventative maintenance and inspection concentration. Areas of study include engine system maintenance, under hood and cab maintenance, electrical/electronic systems, frame and chassis maintenance. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and Math 107. Grade of C or better in 330TRNS 111,112,113,114,115, AND PHY SCI 112.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: OH

Logistics/Transportation/Distr 213 Diesel Engine Construction II

This course will provide students with concepts and skills required for engine construction, advanced diagnostics of diesel engines, rebuilding and testing, repair of injection pumps and governors; troubleshooting engines and fuel system failures as well as the operation and adjustment of Cummins Pressure-Time System. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and Math 107. Grade of C or better in 330TRNS 111,112,113,114,115, AND PHY SCI 112.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: OH

Logistics/Transportation/Distr 214 Emission Controls

This course will provide students with in-depth study of how technology is used in the trucking industry. Current emissions control systems operations, troubleshooting and repair will be thoroughly addressed. Regulatory compliance, electronic vehicle management systems diagnostics, testing and adjustments will be discussed, along with hands on electronic diagnostic systems testing. Various OEM electronic fuel systems and diagnostic software will also be discussed and used. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and Math 107. Grade of C or better in 330TRNS 111,112,113,114,115, 116,209,211,213, AND PHY SCI 112.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: OH

Logistics/Transportation/Distr 215 Diesel Engine Performance

This course will provide students with theoretical and practical applications needed for the operation, servicing, and troubleshooting of various types of diesel engines. It will include the study of diesel fuels, diesel fuel supply systems, mechanical and electronic injection systems, computerized engine controls, as well as soot particle reductions. Diagnostic tools usage and problem solving to enhance engine performance are also incorporated in to the class. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and Math 107. Grade of C or better in 330TRNS 111,112,113,114,115, 116,209,211,213, AND PHY SCI 112.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: OH

Logistics/Transportation/Distr 216 Heavy Duty Drives I (Manual)

This course introduces students to power train systems used on medium/ heavy duty trucks. Topics include: introduction to power trains, clutches and flywheels, powertrain electronic systems, auto-shift mechanical transmissions, power take-offs, trucks drive lines, differentials and final drives, torque converters, and automatic transmissions. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and Math 107. Grade of C or better in 330TRNS 111,112,113,114,115, 116,209,211,213, AND PHY SCI 112.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: OH

Logistics/Transportation/Distr 217 Heavy Duty Drives II (Automatic)

This course will provide students with theoretical and practical applications of power train systems used on medium and heavy duty trucks. Areas of focus will include power take-offs, truck drive lines, introduction to power trains, clutches and flywheels, powertrain electronic systems, differentials and final drives, torque converters and automatic transmissions. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and Math 107. Grade of C or better in 330TRNS 111,112,113,114,115, 116,209,211,213, AND PHY SCI 112.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: OH

Logistics/Transportation/Distr 218 Heating and Air Conditioning

This course introduces systems used in medium/heavy duty trucks and heavy equipment. Classroom instruction on HVAC theory and operation along with local, state, and federal regulations are strongly emphasized. Topics include: HVAC safety, HVAC system theory and operation, A/C system component diagnosis and repair, HVAC system diagnosis and repair, HVAC operating systems and related controls, and refrigeration recovery, recycling, and handling procedures. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and Math 107. Grade of C or better in 330TRNS 111,112,113,114,115, 116,209,211,213, AND PHY SCI 112.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: OH

Logistics/Transportation/Distr 219 Hydraulic Systems

This course will provide students with theoretical and practical applications of hydraulic principles into mobile hydraulic circuits. Students will gain an enhanced learning of basic hydraulic components including assembly and disassembly of valves, pumps and cylinders; servicing, diagnosing, and preventive maintenance procedures will be performed on trucks and heavy equipment. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and Math 107. Grade of C or better in 330TRNS 111,112,113,114,115, 116,209,211,213,214,215,216,218, AND PHY SCI 112.

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: OH

Logistics/Transportation/Distr 220 Advanced Diagnostics

This course will challenge students and expand upon skills and knowledge learned in previous Diesel Technology-related courses. Students will perform diagnostic testing, and engage in problem-solving techniques and replicate real-world diesel maintenance and repair conditions. Topics include diagnosis and repair of emission systems, computerized engine performance systems, and advanced low and high-pressure fuel systems; proper use of advanced engine performance diagnostic equipment will be addressed. Prepares students for ASE A9 certification test. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and Math 107. Grade of C or better in 330TRNS 111,112,113,114,115, 116,209,211,213,214,215,216,218 AND PHY SCI 112.

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: OH

MANUFACTURING TECH TC1 (0340)

Manufacturing Tech TC1 104 Statistical Process Control

This course introduces the use of statistical process control (SPC) which ensures that production systems maintain quality through predictive control of variations. Various distribution curves and statistical control charts are introduced through specific production problems. The interpretation and use of process and product control data is presented through simulations of real scenarios. The course will also prepare students for the Manufacturing Skill Standards Council's Quality Practices and Measurement exam. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 340MFGT 139, AND Grade of C or better or concurrent enrollment in Math 125; OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA

Manufacturing Tech TC1 111 Machining Processes I

This course is an introduction to machine tools and metal-cutting processes used in manufacturing. Students complete projects that require precision layout, set-up, machining, and inspection. These projects require students to perform various operations on engine lathes, drill presses and power saws. Students are also prepared to take the NIMS Level 1 Measurement, Materials and Safety test, and the MSSC Safety test. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for Reading 099 by COMPASS Reading (50-64), or Consent of Department Chairperson.

1 Lecture Hour. 4 Lab Hours. 3 Credit Hours.

Offered at: DA WR

Manufacturing Tech TC1 112 Machining Processes II

This course is an introduction to machine tools and metal-cutting processes used in manufacturing. Students complete projects that require precision layout, set up, machining, and inspection. These projects require students to perform various operations on vertical milling machines, power saws and surface grinders. Students also have the opportunity to earn one or more NIMS Level 1 machining credentials including "Measurement, Materials and Safety," or "Job Planning, Benchwork, and Layout." Students with machine shop experience may attempt to earn NIMS Machining Level 1 in "Milling," or "Drill Press," or "Surface Grinding." Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for Reading 099 by COMPASS Reading (50-64), or Consent of Department Chairperson.

1 Lecture Hour. 4 Lab Hours. 3 Credit Hours.

Offered at: DA WR

Manufacturing Tech TC1 123 CNC Milling Operations & Programming

This course introduces the programming setup and operation of CNC machining center. Topics include programming formats, control functions, program editing, part production, and inspection. Various projects will strengthen the students' skills in the proper use, programming, troubleshooting of this equipment. Students will also earn the NIMS level 1 CNC Milling Program, Setup, and Operate credentials. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 340MFGT 140 AND 340MFGT 112-1 OR Consent of Department Chairperson.

1 Lecture Hour. 4 Lab Hours. 3 Credit Hours.

Offered at: DA WR

Manufacturing Tech TC1 137 CNC Turning Operations & Programming

This course introduces the programming, setup, and operation of Computer Numerical Control (CNC) turning centers. Topics include: programming formats, control functions, program editing, part production and inspection. Various projects will strengthen the students' skills in the proper use, programming and troubleshooting of this equipment. Students will also have the chance to earn the NIMS Level 1 CNC Turning Program, Setup, and Operate Credential. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 340MFGT 140 AND 340MFGT 111-1 OR Consent of Department Chairperson.

1 Lecture Hour. 4 Lab Hours. 3 Credit Hours.

Offered at: DA WR

Manufacturing Tech TC1 138 Intro to Solidworks

This course covers part modeling, detailing and assembly design using SolidWorks software. SolidWorks is a feature-based parametric solid modeler used for mechanical design and manufacturing. The topics include the basic functions needed to use SolidWorks to create parts, assemblies and production drawings. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for Math 99 AND Grade of C or better in 340MFGT 139 OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA

Manufacturing Tech TC1 139 Print Requirements-Quality Assurance

This course focuses on the fundamentals of print reading and the measuring skills needed to verify print requirements. Visualization of 3D objects from orthographic views and the use of micrometers and dial calipers are stressed. The concepts of Geometric Dimensioning and Tolerancing, and quality tools (such as Pareto diagrams and fishbone charts) are introduced. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for Math 98 and English 096 OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA

Manufacturing Tech TC1 140 CNC Fundamentals

This course introduces students to the CNC process, the operation of the CNC lathe and mill, and to the basic set up, tooling, operation, and trouble shooting of CNC Machining. Students will earn at least one NIMS Level 1 CNC Operator credential. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for Math 099 AND Grade of C or better in 340MFGT 111-1 OR 340MFGT 112-1 OR Consent of Department Chairperson.

1 Lecture Hour. 4 Lab Hours. 3 Credit Hours.

Offered at: DA WR

Manufacturing Tech TC1 141 Manufacturing Materials & Processes

The course will provides a general understanding of the behavior of the materials commonly used in manufacturing; the basic techniques used in processing them into useful products, the scientific theory underlying those processes, and the criteria for selecting particular tools, machines, and processes. Students will have the opportunity to earn the MSSC Manufacturing Processes and Production credential. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096 OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA

Manufacturing Tech TC1 142 Geometric Dimensioning and Tolerancing

This course expands upon the student's basic knowledge of mechanical drawings by adding form and feature controls in order to meet assembly requirements at the lowest cost. The differences between traditional dimensioning and geometric dimensioning will be stressed. This course prepares students for an ASME certification in GDT. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 340MFGT 139 OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA

Manufacturing Tech TC1 143 Advanced Metrology

The course focuses on the use of the Coordinate Measuring Machine (CMM) and the optical comparator to inspect machine parts to the current ASME Y 14.5 Geometric Dimensioning and Tolerancing (GD&T) standards. Lab exercises will focus on the set up and operation of precision measuring tools, including the CMM and the optical comparator, to inspect complex parts. Bore gages, attribute gages, gage blocks and pins and their use in calibration will also be covered. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better OR Concurrent enrollment in 340MFGT 142 OR Consent of Department Chairperson.

1 Lecture Hour. 4 Lab Hours. 3 Credit Hours.

Offered at: DA

Manufacturing Tech TC1 144 Wire Electrical Discharge Machining

The course covers operations and procedures for Wire Electrical Discharge Machining systems (Wire EDM). The course content includes an overview of the Wire EDM, EDM operating processes, EDM machine functions, EDM manual part programming, and EDM application in tool rooms and production. Students may also earn the NIMS Wire EDM credential. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 340MFGT 140 OR Consent of Department Chairperson.

1 Lecture Hour. 4 Lab Hours. 3 Credit Hours.

Offered at: DA

Manufacturing Tech TC1 145 Computer Integrated Manufacturing (CIM)

Students will study aspects of automated assembly and process control, including programmable controllers, computer assisted part programming, CAD/CAM systems computerized instrumentation and robotics. This course stresses a systems approach and how hydraulic, pneumatic and electromechanical components function together as a system. Troubleshooting automation is a major activity of this course. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 340MFGT 291 OR Consent of Department Chairperson.

1 Lecture Hour. 4 Lab Hours. 3 Credit Hours.

Offered at: DA

Manufacturing Tech TC1 146 Team Dynamics in Manufacturing

This course provides an exploration into how employees work in groups for the completion of organizational objectives. Emphasis is placed on the growing dependency on self-directed work teams in a manufacturing environment. This course equips students with the ability to manage work teams, work in teams successfully, and to obtain the results via team dynamics. In addition, impacts upon customer satisfaction are explored. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096 OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA

Manufacturing Tech TC1 151 Introduction to Welding

This is a beginning welding course that teaches basic welding skills that lead to an American Welding Society qualification Gas Metal Arc Welding (GMAW or MIG). Topics include metallurgy, welding processes, welding safety, and steel designations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096 OR Consent of Department Chairperson.

6 Lab Hours. 3 Credit Hours.

Offered at: DA

Manufacturing Tech TC1 152 Intermediate Welding

This is a second welding course that teaches basic welding skills that lead to an American Welding Society (AWS) qualification in Gas Tungsten Arc Welding (GTAW or TIG) and/or Shielded Metal Arc Welding (SMAW or Stick). In addition to teaching the theory and practice of GTAW and SMAW welding processes, the course including training in welding with a FANUC robot, resistance welding and torch work. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 340MFGT 151, or consent of Department Chairperson.

6 Lab Hours. 3 Credit Hours.

Offered at: DA

Manufacturing Tech TC1 162 Industrial 2D/3D CAD

This course is designed for students who wish to be involved in the engineering design fields and for those interested in computer aided design. Students will be introduced to both traditional and computer aided drafting skills. The aim of CAD is to introduce students to basic information, skills, and concepts related to drafting and design. Special attention is given to: sketching, measurement, room planning, multi-view drawing, auxiliary views, working drawings, sectional views, orthographic drawings along with AutoCAD tools and commands. Current and future trends in the architectural and engineering fields will be examined. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA

Manufacturing Tech TC1 163 Programmable Logic Controls for Robotics

This course is designed for students who wish to be involved with the architectural and engineering design fields and for those interested in machine control programming. Students will be introduced to the Programmable Logic Controller (PLC) which is a device that is capable of being programmed to perform control functions. The first PLC was introduced in the late 1960s to replace relay logic controls in the automotive industry. Compared to relay logic controls, the PLC's advantages include easy programming and installation, high control speed, hardware and software security, network compatibility, troubleshooting and testing convenience, and high reliability. PLCs are currently used widely in industrial and commercial environments. They can be found in almost any manufacturing facility. There are several manufacturers of PLCs. While the instruction formats may not be the same for different brands, the hardware structures and programming concepts are very similar. This course covers PLC hardware structure, input/output modules, software, and programming. PLC operation and ladder logic programs are discussed.

Prerequisite(s): Grade of C or better in 340MFGT 164

4 Lecture Hours. 2 Lab Hours. 5 Credit Hours.

Offered at: DA

Manufacturing Tech TC1 164 Industrial Control Systems

Students will be taught Control Systems Schemes that are used to maneuver industrial equipment. The students will utilize the CAD (learned in previous course) to create electrical, pneumatic and hydraulic control schematics. CAD lessons will also be extended by the use of Blocks and Templates to enhance drafting skill sets. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 340MFGT 162

4 Lecture Hours. 2 Lab Hours. 5 Credit Hours.

Offered at: DA

Manufacturing Tech TC1 165 Robotics Programming

This course is designed for students who intend to operate or maintain an R30iA or newer FANUC Robot and application technicians (or engineers) who need to design robotic work cells, perform cycle time, reach ability studies, or generate robot path.

Prerequisite(s): Grade of C or better in 340MFGT 164

4 Lecture Hours. 2 Lab Hours. 5 Credit Hours.

Offered at: DA

Manufacturing Tech TC1 191 Industrial Electricity

A study of DC and AC electricity as applied to industrial circuits. The topics include: fundamentals of circuit analysis, single and three phase circuits; and parameters, safety issues in industrial electricity, such as current, voltage and power and troubleshooting methods using test equipment. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for Math 099 and English 096 OR Consent of Department Chairperson.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: DA

Manufacturing Tech TC1 207**Introduction to MASTERCAM**

This course trains students to use Mastercam software to create programs that will drive computerized machine tools (CNC machines). These "g-code" programs are generated from part geometry created in Mastercam software or in a computer-aided-drawing (CAD) software such as Solidworks. Students will learn to create part geometry, generate toolpaths, assign appropriate tools to the toolpaths, and upload their program to a CNC machine, which will precisely cut the part from metal stock. Student projects will focus on 2-D milling operations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 340MFGT 140 OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA

Manufacturing Tech TC1 253**Pneumatics**

Study of the basic principles of pneumatics with emphasis on schematics, valves, actuators, compressors, instrumentation, applications, and troubleshooting. Course also includes the use of supplier catalogs and technical manuals. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for Math 098 AND English 096 OR Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA

Manufacturing Tech TC1 255**Industrial Hydraulics**

This course is a study of basic principles of hydraulics. The topics in this course include schematic interpretation, valves, actuators, compressors, line sizing, fluid viscosity and reservoir capacity. This course will also include the use of supplier catalogs and technical manuals. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for Math 098 AND English 096 OR Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA

Manufacturing Tech TC1 291**Programmable Logic Controllers**

This course covers the basic concepts and skills needed to program and use programmable logic controllers (PLC's) in automated systems in industry. The topics include an overview of basic terminology, ladder logic programming, memory structure, and processing. Students will use PLC's to control electro-mechanical devices, pneumatic actuators, and other industrial components. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 340MFGT 191 OR Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA

Manufacturing Tech TC1 292**Principles of Mechanisms**

This course covers the basic principles of industrial mechanisms. The motion characteristics of drive mechanisms, bearings, lubricants, cams, gears, pulleys are covered in the context of manufacturing processes and factory automation. Troubleshooting and maintenance procedures used in industrial settings are stressed throughout. Students completing the course will be prepared to earn the Manufacturing Skill Standard Council's Maintenance Awareness module of the Certified Production Technician credential. Writing assignments, as appropriate to the discipline are part of the course.

Prerequisite(s): Eligibility for Math 99 OR Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA

Manufacturing Tech TC1 295**Electrical Motor Controls**

A study of different types of electrical motor controls as they are applied to industrial circuits. The topics include safety issues, instrumentation, and the interpretation of line diagrams. An overview of different types of motor controls is also provided. The student will be able to troubleshoot and repair problems associated with different motor control applications of the industry. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 340MFGT 191 OR Consent of Department Chairperson.

1 Lecture Hour. 4 Lab Hours. 3 Credit Hours.

Offered at: DA

Manufacturing Tech TC1 297**Advanced Mechanical Systems**

This course builds on the concepts elaborated in 340MFGT 292-Principles of Mechanisms. Topics include: Mechanical Drive Systems, Basic & Key Fasteners, Power Transmission Systems, V-Belt Drives, Chain Drives, Heavy Duty V-Belt Drives, V-Belt Selection and Maintenance, Lubrication Concepts, and Torque and Power Measurement. Students will also learn how to select the proper hand and power tools, ratchets, torque, wrenches, and torque settings for equipment assembly. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 340MFGT 292 OR Consent of Department Chairperson.

1 Lecture Hour. 4 Lab Hours. 3 Credit Hours.

Offered at: DA

MESSAGE THERAPY (0149)**Massage Therapy 110****Massage Therapy Practice I**

This course is designed to enhance students' knowledge, skills and ability related to entry level massage therapy practice and giving the student a strong foundation in the basic massage techniques and palpation skills to apply this foundation to more specific and advanced massage techniques. Topics presented during this semester included the History of Massage, Touch History, Principles of Energy, Efficient Body Mechanic, Universal Precautions, Equipment and Safety, Basic Massage Techniques, Palpation Skills, Muscular System, and Origin and Insertion of Muscles. Writing assignments, as appropriate to the discipline, as part of the course.

Prerequisite(s): Eligibility for English 101 AND Concurrent Enrollment in ESSS 112.

2 Lecture Hours. 6 Lab Hours. 5 Credit Hours.

Offered at: MX

Massage Therapy 111**Integration of Massage Therapy I**

This course is designed to enhance students' knowledge, skills and ability related to entry level massage therapy practice. Topics that will be presented include Anatomy and Physiology of Basic Chemistry, Integumentary System, Skeletal System, Muscular System, Nervous System. A thorough analysis of human muscle origins, insertions and muscle actions specific to a standard massage routine will be covered. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 AND Concurrent Enrollment in ESSS 112.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: MX

Massage Therapy 120**Massage Therapy Practice II**

This course is designed to enhance students' knowledge, skills and ability related to entry level massage therapy practice. Topics that will be presented include the effects of a massage routine on the systems of the body, therapeutic massage procedures, continued study of muscles and body landmarks, and business skills for massage therapy practice. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in MAS 110 and MAS 111.

2 Lecture Hours. 6 Lab Hours. 5 Credit Hours.

Offered at: MX

Massage Therapy 121 Integration of Massage Therapy II

This course is designed to enhance students' knowledge, skills and ability related to entry level massage therapy practice. Topics for this course are Endocrine, Cardiovascular, Lymphatic, Digestive, Respiratory, Urinary and Reproductive Systems and their Pathologies as it relates to the practice of massage therapy. A thorough analysis of the human body systems for routine massage are covered. Writing assignment, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in MAS 110 and MAS 111.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: MX

Massage Therapy 210 Massage Therapy Practice III

This course is designed to enhance students' knowledge, skills and ability related to entry level massage therapy practice, as well as, advancing their skills to the next level. Topics that will be presented include: Therapeutic Progression, Origin and Insertion of muscles, their actions, stress factors, and trigger point therapy; Pathologies of the back, abdomen and thorax, shoulder, neck, head and face, lower extremities. The student will also learn Lymphatic Drainage, Elderly and Terminally Ill pathologies and massage techniques. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in MAS 110, MAS 111, and concurrent enrollment in MAS 120 and MAS 121

2 Lecture Hours. 6 Lab Hours. 6 Credit Hours.

Offered at: MX

Massage Therapy 211 Integration of Massage Therapy III

This course is designed to enhance students' knowledge, skills and ability related to entry level massage therapy practice and further their knowledge of specific pathologies with the Integumentary System. Other topics that will be presented include: the effects of a massage routine on the systems of the body, therapeutic massage procedures, continued studies of Universal Precautions regarding bodily fluids, blood; Medication and Massage; Fascia and Pain; Bone Fractures, Brain and Cranial Nerves; Pathologies of neurological diseases and the effects of massage. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in MAS 110, MAS 111, and concurrent enrollment in MAS 120 and MAS 121

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: MX

Massage Therapy 220 Massage Therapy Practice IV

This course is designed to enhance students' knowledge, skills and ability related to entry level massage therapy practice and further their knowledge in specific massage techniques for certain populations. Topics that will be presented include: Pregnancy Massage, CranioSacral Therapy, Chakra Therapy, Aromatherapy, Sound Therapy and Energetic and Integrative Techniques, Asian studies of Shiatsu, Meridians, Acupressure, Lomi Lomi, Tuina, and Thai Massage. The students will prepare for professionalism, strategies to establish appropriate clientele relationship and business practices; knowledge of License Regulations, Illinois Rules and Regulation. Students will also review for the Massage and Bodywork Licensing Exam (MBLEx) and/or The National Certification Board for Therapeutic Massage and Bodywork Exam (NCBTMB). Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in MAS 110, MAS 111, MAS 120, MAS 121, MAS 210 and MAS 211.

2 Lecture Hours. 6 Lab Hours. 6 Credit Hours.

Offered at: MX

Massage Therapy 221 Integration of Massage Therapy IV

This course is designed to enhance students' knowledge, skills and ability related to entry level massage therapy practice and further hone their communication skills of documentation, examining case studies; knowledge of nutrition and its relationship with massage for the client; and preparing the student for the National Certification

Board of Therapeutic Massage and Bodywork (NCBTMB). This course also addresses nutrition and how it affects massage therapy. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in MAS 110, MAS 111, MAS 120, MAS 121, MAS 210 and MAS 211.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: MX

MATHEMATICS (0045)

Mathematics 18 Co-Curricular for Math 118

This course is designed to supplement General Education Math by providing foundational math skills necessary to be successful in Gen. Ed. Math. Topics may include: operations with algebraic expressions, basic geometry, order of operations involving fractions, two dimensional graphs, plotting points, equations, and using technology to enhance algebraic concepts. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Concurrent enrollment in linked Math 118, eligibility for Math 99 or equivalent and eligibility for English 096 or equivalent or consent of Department Chairperson.

2 Lecture Hours. 2 Credit Hours.

Offered at: DA MX OH TR HW WR

Mathematics 25 Co-Curricular for Math 125

This course is designed to supplement Introductory Statistics by providing foundational math skills necessary to be successful in statistics. Topics may include: equivalent fractions, percentages, ratios, absolute value, order of operations, evaluating algebraic expressions, set theory, basic geometry, linear equations and inequalities, the coordinate plane, slope, variation, graphing linear functions, and using technology to analyze data. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Concurrent enrollment in linked Math 125, eligibility for Math 99 or equivalent and eligibility for English 096 or equivalent or consent of Department Chairperson.

2 Lecture Hours. 2 Credit Hours.

Offered at: DA MX OH TR HW WR

Mathematics 40 Co-Curricular for Math 140

This course is designed to supplement College Algebra by providing foundational math skills necessary to be successful in college algebra. Topics may include: operations with algebraic expressions, set theory, basic geometry, linear equations and inequalities, absolute value equations, the coordinate plane, slope, variation, graphing linear and quadratic functions, complex numbers, and using technology to enhance algebraic concepts. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Must be taken with corresponding math 140 course.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Mathematics 90 Mathematical Literacy

Mathematical Literacy is designed to enable students to develop conceptual understanding and problem solving competence as preparation for quantitative and statistical reasoning level math. This course integrates numeracy; proportional, algebraic & statistical reasoning; functions and modeling and focuses on developing mathematical maturity through problem solving, critical thinking, data analysis, and the writing and communications of mathematics. Students will develop conceptual and procedural tools that support the use of key mathematical concepts in a variety of contexts. Emphasis is placed on modeling and problem solving, with techniques and manipulations covered in context. Throughout the course, Math success content will be integrated with mathematical topics. Credit earned does not count toward any degree, nor does it transfer.

Prerequisite(s): Completion of FS math 3001/3002 with a grade of S, or ALEKS math score of 20+, or Compass Algebra of 15+ AND Pre-Algebra of 29+, AND Eligibility for English 096, or consent of dept.

6 Lecture Hours. 6 Credit Hours.

Offered at: MX OH TR WR

Mathematics 98 Beginning Algebra with Geometry

Course Description: Algebra of real numbers, integer exponents, polynomial operations, factoring, rational and complex expressions, linear equations, word problems, quadratic equations and graphical and algebraic solutions of simultaneous linear equations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Completion of FS math 3001/3002 with a grade of S, or ALEKS math score of 20+, or Compass Algebra of 15+ AND Pre-Algebra of 29+, or consent of dept.

4 Lecture Hours. 4 Credit Hours.

Offered at: DA KK MX OH TR HW

Mathematics 99 Intermediate Algebra with Geometry

Algebraic operations involving rational exponents, including scientific notation. Algebraic expressions, including radical and rational expressions. Solutions of quadratic, quadratic in form, rational, radical, and absolute value equations. Solutions of compound linear inequalities. Solutions and manipulations of literal equations of literal equations. Graphical and algebraic solutions of systems of linear equations in two and three variables; graphical solutions to systems of linear inequalities. Graphs of linear and quadratic equations. Geometry topics: perimeter, area of geometric figures, triangles, rectangles, and circles; volume of sphere, cylinder and pyramid. Pythagorean Theorem and distance formula. Similarity and proportions. Applications of problem-solving skills are emphasized throughout the course. Students should be exposed to graphing calculator technology and/or computer algebra systems. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Completion of Math 98 with a C or better, or completion of FS Math 3003/3004 with grade of S, or ALEKS score of 30+, or COMPASS ALGEBRA 24+, or Consent of dept.

5 Lecture Hours. 5 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Mathematics 100 Introduction to College Mathematics

This course will provide students with an introduction to college mathematics in two distinct ways. First, students will be exposed to foundational mathematical content that will put them in a position to be successful in their future mathematics courses. The four main topics of the course are numerical literacy, algebraic literacy, math modeling/functions, and graphing. Second, the course will provide students with a space to examine their perceptions, habits, and past experiences in mathematics in an effort to positively influence their future college math coursework and their mathematical identities. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Completion of FS math 3001/3002 with a grade of S, or ALEKS math score of 20+, or Compass Algebra of 15+ AND Pre-Algebra of 29+, or consent of dept.

6 Lecture Hours. 6 Credit Hours.

Offered at: HW

Mathematics 107 Math For Technicians I

Designed to provide mathematical tools for students in terminal technical curricula. Emphasis is on practical aspects of mathematics and less upon the theoretical. Topics include elementary algebra operations, simultaneous and quadratic equations, exponents and radicals, logarithms, introduction to trigonometry, vectors, and use of calculator. Writing assignments, as appropriate to the discipline, are part of the course.

1 - 5 Lecture Hours. 1 - 5 Credit Hours.

Offered at: KK OH

Mathematics 108 Math For Technicians II

Continuation of Mathematics 107. Topics include trigonometric functions, solution of oblique triangles, vectors, Cartesian and polar coordinate systems, graphs of functions and basics of differential and integral calculus. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Math 107, or Consent of Department Chairperson.

3 - 5 Lecture Hours. 3 - 5 Credit Hours.

Offered at: KK

Mathematics 118 General Education Math

This course is designed to fulfill general education requirements. It is not designed as a prerequisite for any other college mathematics course. This course focuses on mathematical reasoning and solving of real-life problems. Three topics are to be studied in depth, chosen from the following list: counting techniques and probability, game theory, geometry, graph theory, linear programming, logic/set theory, and statistics. Mathematical modeling must be integrated in any combination of topics selected. This course is designed to fulfill general education requirements. It is not designed as a prerequisite for any other college mathematics course. This course focuses on mathematical reasoning and solving of real-life problems. Three topics are to be studied in depth, chosen from the following list: counting techniques and probability, game theory, geometry, graph theory, linear programming, logic/set theory, and statistics. Mathematical modeling must be integrated in any combination of topics selected. Applications involving problem-solving skills are emphasized throughout the course. Technology is an integral part of this course. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): A minimum grade of 'C' in one of the following courses: Math 90 or Math 99 or Math 100; or a minimum grade of C in Math 98 AND concurrent or successful completion of Math 018; or appropriate score on Placement Test; or Consent of Department

4 Lecture Hours. 4 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: M1 904 GE: Mathematics

Mathematics 121 Math For Elementary Teachers I

This course focuses on mathematical reasoning and problem solving. Topics include operations with rational and irrational numbers, sets, functions, logic, numeration systems and number theory, and solution of linear equations in one variable. Applications are included throughout the course. Problem-solving with the use of calculators and computers is emphasized throughout the course. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Completion of Math 99 with a C or better, or ALEKS 46+, or COMPASS ALGEBRA 43+ AND College ALGEBRA 1-50, or ACT Math 21+, or SAT Math 500+, or Consent of department.

4 Lecture Hours. 4 Credit Hours.

Offered at: DA KK MX OH TR HW WR

GE: Mathematics

Mathematics 122**Math For Elementary Teachers II**

This course is a continuation of Mathematics 121. Topics include probability and statistics, lines, angles, polygons, Pythagorean Theorem, circles, solids, areas, volume, and measurements. Applications are included throughout the course. Problem-solving with the use of computers is emphasized throughout the course. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Math 121, or Consent of Department Chairperson.

4 Lecture Hours. 4 Credit Hours.

Offered at: DA KK OH TR HW WR

IAI: M1 903 GE: Mathematics

Mathematics 125**Introductory Statistics**

Basic descriptive statistics including frequency distributions, mode, mean and standard deviation. Permutations, combinations, probability rules and Bayes Theorem. Binomial and normal distributions. Basic inferential statistics including sampling theory, confidence intervals for means and proportions, test of hypotheses. Chi-square distribution. Introduction to correlation and regression. Includes at least one hour per week using computers in statistical application. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): A minimum grade of 'C' in one of the following courses: Math 90 or Math 99 or Math 100; or a minimum grade of C in Math 98 AND concurrent or successful completion of Math 025; or appropriate score on Placement Test; or Consent of Department

4 Lecture Hours. 4 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: M1 902; IAI: BUS 901 GE: Mathematics

Mathematics 126**Algebra for Middle School Teachers**

This course focuses on the concept of functions in college algebra. It is designed to meet the needs of middle school teachers in accordance to the National Council of Teachers of Mathematics Standards for Teaching Mathematics. Topics include basic definition of different functions and their properties. The following algebraic concepts will be explored: linear functions, systems of linear equations, quadratic functions, non-linear data, combinatorics, probability, exponential functions, log functions, square root functions, absolute value, and trigonometry as periodic functions. Problem solving using calculators, CBLs, and computers is emphasized throughout the course. Writing assignments as appropriate to the discipline are part of the course.

Prerequisite(s): Grade of C or better in Math 121 and Math 122.

4 Lecture Hours. 4 Credit Hours.

Offered at: TR WR

Mathematics 127**Geometry/Trigonometry for Middle School Teachers**

This course focuses on the concepts of plane and solid geometry and trigonometry. It is designed to meet the needs of a middle school teacher in accordance with the National Council of Teachers of Mathematics Standard and the Professional Standards for Teaching Mathematics. Topics include basic definitions and properties of plane and solid figures, congruence, similarity, constructions, Pythagorean Theorem, measurements, transformations, the unit circle and right triangle trigonometry. Problem solving with the use of calculators and computers is emphasized throughout the course. Writing assignments as appropriate to the discipline are part of the course.

4 Lecture Hours. 4 Credit Hours.

Offered at: TR WR

GE: Mathematics

Mathematics 140**College Algebra**

Algebra of real and complex numbers, functions, algebraic and graphical solutions of linear, quadratic and systems of equations. Logarithmic and exponential functions. Additional topics from determinants, sequences, series, the Binomial Theorem,

Mathematical Induction, and elements of the Theory of Equations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Completion of Math 99 or higher with a C or better, or ALEKS 46+, or COMPASS ALGEBRA 43+ AND College ALGEBRA 1-50, or ACT Math 21+, or SAT Math 500+ if before 3/1/16 (530+ if after 3/1/16), or Consent of department.

4 Lecture Hours. 4 Credit Hours.

Offered at: DA KK MX OH TR HW WR

GE: Mathematics

Mathematics 141**Plane Trigonometry**

Definition of trigonometric functions, graphs of trigonometric functions and their universes. Applications to triangles, law of sines and cosines, trigonometric identities, equations, vectors and applications. Complex numbers in trigonometric form and DeMoivre's Theorem. Calculators will be used. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Completion of Math 140 with a C or better, or ALEKS math score of 61+, or COMPASS ALGEBRA 43+ AND College ALGEBRA 51+ AND TRIGONOMETRY 1-50, or ACT Math 24+, or SAT Math 560+ if before 3/1/16 (580+ if after 3/1/16) or Consent of department

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK OH TR HW WR

GE: Mathematics

Mathematics 143**Pre Calculus**

Emphasizes the notion of function as a unifying concepts for the topics of college algebra and trigonometry. Families and their characteristics include: polynomial functions; rational functions; exponential and logarithmic functions; and trigonometric functions and applications involving problem-solving skills. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Completion of Math 99 with a C or better, or ALEKS 46+, or COMPASS ALGEBRA 43+ AND College ALGEBRA 1-50, or ACT Math 21+, or SAT Math 500+ if before 3/1/16 (530+ if after 3/1/16), or Consent of department.

6 Lecture Hours. 6 Credit Hours.

Offered at: DA KK MX OH TR WR

IAI: CS 915

Mathematics 144**Finite Mathematics**

Logic, sets, partitions, counting, probability rules and Bayes Theorem, vectors and matrices, and linear programming. Includes applications to behavioral sciences and to business and administration problems. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Completion of Math 140 with a C or better, or ALEKS math score of 61+, or COMPASS ALGEBRA 43+ AND College ALGEBRA 51+ AND TRIGONOMETRY 1-50, or ACT Math 24+, or SAT Math 560+ if before 3/1/16 (580+ if after 3/1/16) or Consent of department

4 Lecture Hours. 4 Credit Hours.

Offered at: DA KK MX TR HW WR

IAI: M1 906 GE: Mathematics

Mathematics 146**Discrete Mathematics**

Introduction to mathematical analysis of finite collections and mathematical foundations of sequential machines, digital logic circuits, data structures, and algorithms. Includes sets, counting, recursion, graph theory, nets, automata, and formal grammars and languages. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Completion of Math 140 with a C or better, or ALEKS math score of 61+, or COMPASS ALGEBRA 43+ AND College ALGEBRA 51+ AND TRIGONOMETRY 1-50, or ACT Math 24+, or SAT Math 560+ if before 3/1/16 (580+ if after 3/1/16) or Consent of department

4 Lecture Hours. 4 Credit Hours.

Offered at: DA KK TR HW WR

IAI: M1 905; IAI: CS 915 GE: Mathematics

Mathematics 202**Number Concepts/Mid-School Teaching**

This course has been designed keeping in mind both the Illinois Professional Content Standards for Teaching (Mathematics) and the content necessary to prepare students to be middle school mathematics and science teachers. A wide range of topics across number of theory and measurement will give the students a grasp of the depth and breadth of mathematics outside of the traditional course structure. Problem solving, estimation, measurements, and construction of simple theories of numbers will be treated with and without the use of technology. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (Math 113, or Math 126, or Math 140, or Math 143).

4 Lecture Hours. 4 Credit Hours.

Offered at: TR WR

Mathematics 204**Calculus For Business & Social Sciences**

For students of business and social science. Introduction to differential and integral calculus with applications pertinent to business and social science. The five-credit hour course will include functions of several variables, partial derivatives, maximum, minimum of functions of several variables and LaGrange multipliers. Writing assignments, as appropriate to the discipline, the course.

Prerequisite(s): Completion of Math 140 with a C or better, or ALEKS math score of 61+, or COMPASS ALGEBRA 43+ AND College ALGEBRA 51+ AND TRIGONOMETRY 1-50, or ACT Math 24+, or SAT Math 560+ if before 3/1/16 (580+ if after 3/1/16) or Consent of department

4 - 5 Lecture Hours. 4 - 5 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: M1 900-B **GE:** Mathematics

Mathematics 207**Calculus & Analytic Geometry I**

Equations of lines, circles and conic sections, limits, and continuity. Derivatives and their applications to curve sketching, maxima-minima, and related rate problems. The antiderivative and definite integral, including change of variables and the fundamental theorem of calculus. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Completion of Math 140 & 141 with a C or better, or completion of MATH 143 with a C or better, or ALEKS score of 76+, or COMPASS Algebra 43+ AND College ALG. 51+ AND TRIG. 51+, or ACT Math 24+, or SAT Math 560+ if before 3/1/16 (580+ if a

5 Lecture Hours. 5 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: MTH 901; **IAI:** M1 900-1 **GE:** Mathematics

Mathematics 208**Calculus & Analytic Geometry II**

Derivatives of trigonometric and inverse trigonometric functions, logarithmic and exponential functions. Techniques and applications of integration. Indeterminate forms and L-Hospitals rule. Improper integrals. Infinite series and power series. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Math 207, or Consent of Department Chairperson.

5 Lecture Hours. 5 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: MTH 902; **IAI:** M1 900-2 **GE:** Mathematics

Mathematics 209**Calculus & Analytic Geometry III**

Curves in the plane and in 3 dimensional space. Polar coordinates and parametric equations. Vectors in 2 dimensional and 3 dimensional space. Derivatives of vector-valued functions. Partial derivatives. Double and triple integrals. Applications. Line integrals and Greens theorem. Divergence and curl. Surface integrals. Gauss theorem and Stokes theorem. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Math 208, or Consent of Department Chairperson.

5 Lecture Hours. 5 Credit Hours.

Offered at: DA KK OH TR HW WR

IAI: MTH 903; **IAI:** M1 900-3 **GE:** Mathematics

Mathematics 210**Differential Equations**

A first course in ordinary differential equations: solutions of first order and first degree differential equations, linear differential equations with constant co-efficients. Linear differential equations of higher order, special differential equations of second order and differential equations of first order but not of first degree. Numerical methods, series solutions and applications included. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Math 208, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK OH TR HW WR

IAI: MTH 912

Mathematics 212**Linear Algebra**

Introduction to linear algebra for students who have studied some calculus; computations with vectors and matrices will be emphasized, proofs also will be examined; major topics include systems of linear equations and matrices, determinants, vectors in Euclidean space, abstract vector spaces, linear mappings, computation of eigenvalues and eigenvectors. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Math 208, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK TR HW WR

IAI: MTH 911

Mathematics 216**Statistics For Business Majors**

The basic concepts of statistical analysis used in business decision-making, including probability and how uncertainty is dealt with in real life. The student will analyze and work out simple problems and should be able to recognize applications of different statistical techniques, interpret the results of analysis and recognize instances in which statistical techniques have been misused. The following concepts and statistical techniques are included: measure of central tendency and variability, random variable and probability distributions, estimation, tests of hypotheses, chi square tests, linear regression and correlations and one-way analysis of variance. Applications are included throughout the course. Problem solving with the use of calculators and computers is emphasized. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Math 140, Placement Test or Consent of Department Chairperson.

4 Lecture Hours. 4 Credit Hours.

Offered at: DA TR

IAI: BUS 901

Mathematics 299**Special Topics Mathematics**

Special Topics in Mathematics will be discussed along with appropriate computer and calculator activities. New developments will be emphasized, especially materials useful in K-12 education and industry. Each special topic course will have a sub-title. Students can take courses with different sub-titles and receive credit for each. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Course may be repeated up to three times when topics are different, and may count for a maximum of six variable credits. Consent of Department Chairperson required for repeatability.

Prerequisite(s): Consent of Department Chairperson.

1 - 6 Lecture Hours. 1 - 6 Credit Hours.

Offered at: DA KK MX OH HW WR

MEDIA COMMUNICATION (0011)**Media Communication 102**
Announcing

Develops the ability to transform written copy or script into voice performance emphasizing copy preparation, breath control, pronunciation, articulation, use of full dynamic range, microphone techniques, and hand signals. A variety of copy, including commercials, news and public service announcements will be covered. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

IAI: MC 918

Media Communication 145
Intro To Media Communication

A survey of the history, technology, structure and operation of the telecommunications industry. Topics include advertising, audience measurement, network television, radio station operations, cable television, broadcast regulations and licensure, satellite communications, pod casting, and careers in media communications. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

IAI: MC 911

Media Communication 160
History of Radio Genres

An in-depth look at the progression of radio since its inception, as well as examination of the huge impact that it had on American culture. Introduction to the different radio genres, and the will examine the drastic transition those genres have undergone over the years. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Media Communication 170
The History of Television

An in-depth look at the progression of television since its inception and examination of the massive impact that its existence has had on American culture. Students will also study the different television program genres, such as soap operas, sitcoms, newscasts, reality shows, and many others, as they examine the sweeping changes that have taken place in television programming over the past several decades. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Media Communication 190
Language, Culture and Media

Television, radio, print and film reflect and transmit culture through language and images. Using these media as a context, this course will examine a variety of depictions of culture and language and will evaluate perceptions about language and culture within various segments of society. Students will be encouraged to think critically about language choices and to analyze the impact of culture and media on those choices. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Media Communication 203
Media Writing

Creation and preparation of scripts for radio and television programs and segments which include news copy, commercial copy, public service announcements. Special attention will be paid to correct format and form. Word processing skills will be utilized in this course. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

IAI: MC 917

Media Communication 221
Radio Production I

This course is designed as an introduction to the audio control system and training in the operation of related equipment. Emphasis will be placed on how the various components integrate into a system. Demonstration of expertise through class exercises and laboratory projects is required. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

IAI: MC 915

Media Communication 222
Radio Production II

Review the audio control system and its various equipment components. Emphasis will be placed upon creating, producing, and directing service announcements, news and drama which may be utilized by Kennedy-King's own WKKC-FM. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in MEDIACM 221, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Media Communication 223
Advanced Broadcast Writing

As a direct continuation of course MEDIACM 203-Media Writing. This class provides experience in writing longer scripts, for various types of media outlets such as television, radio, and the Internet. With an emphasis on content, clarity and flow. Basic script formats, terminology, and writing techniques for documentaries, commercials, public service announcements, promos, as well as entertainment and fictional programs. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in MEDIACM 203 or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Media Communication 231**TV Production I**

Introduction to the television production system and training in the operation of the video and audio equipment necessary to produce programming. Emphasis will be how the various components integrate into a system. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

IAI: MC 916

Media Communication 232**TV Production II**

Continuation in the development of expertise in the use of various audio and video components. Television production projects will require creating treatments, storyboards, and scripts, for the production of a final program. Emphasis on integration of equipment, production personnel, and script to create finished television production. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in MEDIACM 231, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Media Communication 234**Producing for Television**

An examination of the vital role of the television producer, focusing on the three areas of production: pre-production, production, and post production. Emphasis on the importance of planning, show creation, budgeting, scheduling, management, team building, field producing, and delivery. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in MEDIACM 223 and MEDIACM 231 or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Media Communication 240**Minicam & Videotape Editing**

Evaluate, set-up, light, mike, and properly record in a single-camera remote environment for desired production results. Learn to log and electronically computer edit recorded footage into professional programs and program segments. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Media Communication 241**Video Editing**

Introduction to the fundamentals of digital non-linear editing concepts and practices. Basics of importing (digitizing) video; basic editing techniques, trimming clips, basic effect palettes, overlaying audio with video, recording narration and music; and saving the finished production to digital as well as Quick time file. Students learn to storyboard their ideas and develop the ability to edit in sequence to tell a story. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (MEDIACM 231 and MEDIACM 240).

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Media Communication 245**Advanced Production Workshop**

Learn the steps necessary to develop a program concept or idea into a completed radio and/or television program. Emphasis is placed upon the coordinating of technical, budgetary, personnel, scheduling, and equipment aspects of achieving

effective productions. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in MEDIACM 222 OR MEDIACM 232 OR Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Media Communication 250**Mini-Cam & Video Editing II**

As a direct continuation of Media Communications 240, this class provides instruction in advanced video camera recording and digital editing techniques. Students are introduced to multiple industry standard editing software programs, as well as motion graphics. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in MEDIACM 240 or consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Media Communication 252**Audio Engineering I**

This course is designed to introduce students to basic audio engineering practices for film, video production, sound broadcasting, advertising, and live events. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in MEDIACM 222 OR MEDIACM 232 OR Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Media Communication 260**Media Sales & Marketing**

A study of sales and marketing relative to broadcasting and cable television. Introduction to the principles of packaging a product for sale to advertisers and program buyers. Review of organization management at television stations, networks, and cable outlets, and Internet Service Providers(ISP). Emphasis is placed upon theoretical and practical aspects of developing presentation skills including instruction and utilization of media research materials such as rating books in positioning sales. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in MEDIACM 145, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Media Communication 265**Digital Media Entrepreneurship**

This course introduces students to the fundamentals of entrepreneurship and changing media industry business models. Students are exposed to best practices for developing viable concepts, financial management and controlling the organization. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in MEDIACM 145 or Consent of Department Chairperson.

2.5 Lecture Hours. 3 Credit Hours.

Offered at: KK

Media Communication 271**Intro to Interactive Media**

A practical introduction to interactive media, otherwise known as the Internet. While in this course, students will become better acquainted with new technologies and methods for creating participatory media, while making it available through nontraditional outlets. Students will develop new ideas for assisting in this tradition, with both the Internet, as well as the traditional broadcast space. Class topics will also cover the technologies that go hand in hand with both the creation and utilization of interactive "new" media. This course will emphasize group projects. Students will be introduced to the unique issues encountered while producing for interactive media, such as streaming, bandwidth, compression, memory allocation, and optimization. Various distribution media will be examined including CD-ROM, DVD, and the Internet. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and Grade of C or better in (MEDIACM 145 and CIS 120), or Consent of Department Chairperson.

4 Lecture Hours. 3 Credit Hours.

Offered at: KK

Media Communication 280**Advanced Editing, Graphics, and Animation**

A direct continuation of Media Communications 250, this course introduces students to motion graphics, visual effects, and animation using industry standard software for film and video projects.

Prerequisite(s): Grade of C or better in MEDIACM 250 or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Media Communication 295**Practicum Internship**

Planned and supervised training which allows the application of theory to actual practice prepares a student for working independently toward specific career objectives. The internship/practicum generally occurs after the student has completed eighteen MEDIACM credit hours. It takes place at a regular worksite and instruction/supervision is provided by an employee at the worksite. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Media Communication 298**Audio, Video or Internet Capstone**

After satisfactory completion of all Media Communications courses, this course is intended to provide students with the opportunity to integrate their television, radio, and internet skills by preparing an actual portfolio suitable for employment in the media industry. With an emphasis on quality, the Capstone portfolio will feature a variety of product projects to showcase specific, industry related skills obtained while enrolled in the Media Communications program at Kennedy-King College. In addition, students will create a marketing package for themselves, including a resume, business cards, interactive website, and audition/resume disk. Student must obtain consent of Program Director to take this course concurrently with their internship course, MEDIACM 250. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

MEDICAL ASSISTING (0153)**Medical Assisting 103****Medical Assisting Clinical Procedures I**

This course is designed to introduce students to basic clinical procedures in the medical office assisting field. Students will learn to perform basic skills and assist with procedures common to the medical office. Instruction will include classroom and laboratory as learning experience. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and General Education Math 118 or higher and acceptance into the Medical Assisting Program

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: MX

Medical Assisting 104**Medical Assisting Clinical Procedures II**

This course is designed to build upon the knowledge and skills developed in Clinical I. Students will learn to perform clinical skills and assist with procedures common to the medical office. Instruction will include classroom and laboratory learning experiences. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Medical Assisting 103-Medical Assisting Clinical Procedures I

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: MX

Medical Assisting 106**Administrative Procedures**

This course will explore administrative and front office responsibilities in the physician's practice or clinical setting. Emphasis is placed on clerical functions, including verbal and written communication, patient reception, and records management. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and General Education Math 118 or higher and acceptance into the Medical Assisting Program

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: MX

Medical Assisting 107**Pharmacology**

This course introduces the students to the basic skills that are performed by the medical assistant in the medical office. The course will emphasize the principles of pharmacology as they relate to medication administration in the medical office and clinical settings. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: MX

Medical Assisting 108**Fundamentals of Ambulatory Billing and Coding**

This course covers performance of coding procedures; application of third party and managed care policies, procedures, and guidelines, including obtaining referrals and pre-certifications; billing for services, including insurance claim forms and use of a physician's fee schedule. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and General Education Math 118 or higher and acceptance into the Medical Assisting Program

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: MX

Medical Assisting 109**Medical Assisting Practicum**

This course requires medical assisting students to integrate and apply knowledge and skills from all previous medical assisting courses in an actual ambulatory health care setting. Students will be assigned to the clinical sites. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Current CPR certification and completion of all coursework in the Medical Assisting Program including Health 102 and 105, Medical Assisting 103, 104, 106, 107 and 108.

15 Lab Hours. 3 Credit Hours.

Offered at: MX

MENTAL HEALTH (0118)**Mental Health 223****Intro To Addictions Studies**

Includes treatment strategies, perspectives and understanding of the addiction process and its effects upon the individual, the family, employers, and society. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK HW WR

Mental Health 224**Principles and Practices of Addiction Studies**

Basic clinical skills in alcoholism and substance abuse field; strategies in working with denial and resistance; diagnostic and assessment skills; history-taking; individual, family and group treatment modalities utilized with the alcoholic and/or substance abuser; termination process; aftercare and referral process. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Mental Health 223, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK HW WR

Mental Health 228**Principles of Mental Health Practices**

Mental health, the settings in which mental health problems are treated, and common types of mental health problems; review of treatment strategies and methods of intervention. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in ENGLISH 101, MENHLTH 223, 224, 230,231, OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Mental Health 229**Practicum In Addictions Treatment**

Students work 20 hours per week in a mental health setting in the community under supervision of mental health professionals and participate in a two-hour seminar once a week, relating field experiences to mental health theory. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in MENHLTH 223, 224, 230, 231 OR Consent of Department Chairperson. Must attend a mandatory orientation and prior acceptance of program and secure an approved practicum site before the first day of class.

2 Lecture Hours. 20 Lab Hours. 6 Credit Hours.

Offered at: KK HW WR

Mental Health 230**Addictions & Family Treatment**

Study of affects of alcoholism and substance abuse of the family; how spouse, children and extended family react to problematic drinking or drug abuse; examination of treatment including self-help groups. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (Mental Health 223 and Mental Health 224), or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK HW WR

Mental Health 231**Addictions Treatment of Special Populations**

Application of needs of special treatment populations, diagnosis and treatment of adolescent and elderly clients, sexual issues; patient education, prevention strategies, spirituality, relapse prevention and employee assistance programming, AIDS and eating disorders. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (Mental Health 223 and Mental Health 224 and Mental Health 230), or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK HW WR

Mental Health 232**CADC Examination Review**

Basic clinical skills in alcoholism and substance abuse; strategies in test taking, overview of core functions and competencies and overview and practice of State examination. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in MENHLTH 230 AND 231 or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

MICROBIOLOGY (0024)**Microbiology 233****General Microbiology**

Morphology, physiology, classification and culture of bacteria and related organisms. The role of bacteria related to human welfare and to plants and animals. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated eight credit hours will be counted towards graduation.

Prerequisite(s): Grade of C or better in Biology 121.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Microbiology 234**Applied Microbiology**

A sequence course to a second semester fundamentals course in microbiology. This course is designed for students majoring in biotechnology. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Microbiology 233.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: TR

Microbiology 236**Applied & Environmental Microbiology**

The goal of this course is to learn about the use of microorganisms (bacteria, archaeobacteria, protists, fungi, and viruses) in the population of pharmaceuticals, foods, and industrial chemicals, as well as in applications such as bioremediation. Specifically, genetic engineering and biotechnology will be discussed. Secondly, interaction of microorganisms with other organisms and the physical environmental will be explored. In particular, microbial ecology, biogeochemical cycles, and public health microbiology will be addressed. Field sampling methods and analytical techniques (including molecular biology methods) will be utilized. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Biology 121.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: OH

MORTUARY SCIENCE (0128)**Mortuary Science 102
Microbiology For Embalmers**

The basic principles of microbiology related to the principles of funeral service education, especially as they pertain to embalming sanitation, morgue disinfection, public health, and embalming practice. The development and use of personal, professional and community hygiene and sanitation is discussed. The methods of transmission of infectious diseases, control procedures of these diseases with special emphasis on protection to the embalmer are described to differentiate between indigenous microorganisms and pathogens and/or opportunists causing diseases commonly associated with the human host and dead human remains. Blackboard Course (BbOC) computer skills recommended but not required. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Biology 120, Biology 121 and Health Science 102.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

**Mortuary Science 103
Chemistry For Embalmers**

The basic principles of chemistry related to the principles of funeral service education. Especially stressed are the principles and precautions involved in the sanitation and disinfection of dead human remains, focusing strictly on chemistry and embalming chemicals, modifying agents, supplemental fluids and autopsy compounds. Potentially harmful chemicals used in the preparation room and their regulations are emphasized along with the essential characteristics of fermentation, and putrefaction in the area of the chemistry of decomposition of dead human remains. Blackboard Course (BbOC) computer skills recommended but not required. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Biology 120, Biology 121 and Health Science 102.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

**Mortuary Science 104
Pathology For Embalmers**

This course in Pathology is designed to study the pathological conditions of the human body in its postmortem state and how those pathological conditions affect various parts of the body, with particular emphasis on those conditions which relate to or affect the embalming or restorative art process. Pathological conditions discussed will dictate the embalming procedures, methods and chemicals for preservation required by the embalmer. Blackboard Course (BbOC) computer skills recommended but not required. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Biology 120, Biology 121 and Health Science 102.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

**Mortuary Science 108
Accounting In Funeral Service**

An introduction to basic principles of accounting theory. Applications to funeral home operations are made throughout financial statements and their analysis, worksheets, journalizing, receivables, payables, deferrals and accruals. Inventory cost models for funeral merchandise, is covered along with depreciation models and payroll accounting. Accounting proficiencies will enable the understanding of funeral service records and the funeral directors guidelines of funeral arrangements as prescribed by Federal Trade Commission Regulations rule on funeral industry practices. Blackboard Course (BbOC) computer skills recommended but not required. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Acceptance into the Mortuary Science program/plan 257.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

**Mortuary Science 109
Sociology For Funeral Service**

Sociology studies family structures, social structures, and the factors of change within those groups. This course relates those factors of change to the impacts of death

and the relationship of the role of the funeral director in providing closure through funeral rites, ceremonies, customs, religion and rituals. Emphasis is placed on the cultural requirements and diversities of each family the funeral director is privileged to serve and an awareness of the changing social factors, which affect American Funeral Rites and the families served. Blackboard Course (BbOC) computer skills recommended but not required. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Acceptance into the Mortuary Science program/plan 257.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

**Mortuary Science 111
History Of Funeral Service**

Survey of current expectations in American Funeral Practice with emphasis on task and personality of the practitioner. Trends and issues in embalming practice from ancient Egyptian burial rites to current American practices and foreign procedures. Blackboard (BbOC) computer skills recommended but not required. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Acceptance into the Mortuary Science program/plan 257.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

**Mortuary Science 203
Funeral Directing**

This course recognizes the wide variation of funeral customs across the country, attempting to point out some general practices that contain minimal geographic and cultural differences, including general information on notification of death, transfer of remains, conduct of the arrangement conference, pre-funded/preplanned funerals. Included is the cross-section of religious funeral practices, fraternal and military funerals, shipment of remains, cremation and aftercare. Guidelines for the course are designed to introduce the Federal Trade Commission and the Trade Regulation Rule on Funeral Industry Practices. Blackboard Course (BbOC) computer skills recommended but not required. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Mortuary Science 111.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

**Mortuary Science 204
Mortuary And Business Law**

The student is introduced to the sources of law, the legal status of the dead human body. The funeral directors responsibilities are examined as practicing professionals in relationship to that of the final disposition. Blackboard Course (BbOC) computer skills recommended but not required. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Completion of two semesters in the Mortuary Science program/plan 257.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

**Mortuary Science 207
Restorative Art**

Study of techniques employed to bring about restoration of a deceased human being to as near a normal appearance as possible. The subject area for restorative art is designed to introduce the techniques and importance of creating an acceptable appearance of the deceased for the benefit of the surviving family members. Blackboard Course (BbOC) computer skills recommended but not required. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Biology 226 recommended.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Mortuary Science 209 Funeral Management & Merchandise

This course covers the construction and features caskets, outer burial containers, and other funeral related products such as cemetery headstones and markers. Merchandising examines methods of purchasing, pricing, display, and sale of funeral merchandise as well as services. Emphasis are placed on the component parts of funeral merchandise, including materials used, component part styles, finishes, dimensions/functions and pricing methods. General management techniques and theory as they relate to specific funeral home operational procedures and practices are emphasized. Management examines specific areas of funeral service practice and the managerial guidelines for the contemporary concepts of funeral service management as they relate to client families and community, staff personnel, and professional associates and associations/agencies. Blackboard Course (BbOC) computer skills recommended but not required. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Mortuary Science 203.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Mortuary Science 210 Advance Mortuary Science Practice/Ethics

A survey of topics presented by the Director of the Mortuary Science program/plan, providing an overview of various tasks and subjects a director will encounter in the role of a practitioner. Legal and Moral Ethics are covered. An overview of the curriculum and the practical application of theory as it relates to the ethnical practice of mortuary science. Exit examinations/core competency capstone course. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Consent of Department Chairperson.

2 Lecture Hours. 2 Credit Hours.

Offered at: MX

Mortuary Science 211 Psychology Of Funeral Service

The underlying value and relevance of this course for preparing the funeral director is that the symbolic and ritualistic aspects of the funeral have a significant impact upon the emotional experience of the bereaved. Emphasis on the grief process and its variations across individuals as influenced by psychological factors aids the funeral director in becoming a facilitating agent for effective mourning through personal interactions as well as the design and implementation of the funeral service. This course will also prepare the funeral director to know when to make a referral for mental health services. Issues relating to children and death and particular theories/theorist are also stressed. Blackboard Course (BbOC) computer skills recommended but not required. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Acceptance into program/plan 257 or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Mortuary Science 213 Embalming Theory I

The involvement of all aspects of embalming theory. From the evaluation of features to the case analysis, embalming reports and instrumentation. A study of phenomenon of death in the human body is detailed. Theory I includes the study of government regulations applicable to the embalming process. Blackboard Course (BbOC) computer skills recommended but not required. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Mortuary Science 102, 103 and 104.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Mortuary Science 214 Embalming Laboratory

Practical application of embalming techniques and laboratory procedures of the deceased human body. Blackboard Course (BbOC) computer skills recommended but not required. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Mortuary Science 102, 207, 213, 215, 216 and Biology 226, 227, 130, 131.

1 Lecture Hour. 4 Lab Hours. 3 Credit Hours.

Offered at: MX

Mortuary Science 215 Restorative Art Laboratory

Applied experience in restoring damaged human remains to achieve a normal life appearance of the deceased. Blackboard Course (BbOC) computer skills recommended but not required. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Mortuary Science 207, Biology 226 and 227.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: MX

Mortuary Science 216 Embalming Theory II

Course examines the difficulties encountered by the embalmer due to disease and pathological changes of the deceased, examination of preparation of autopsied cases as well as the procedures for handling and embalming more difficult cases. Theory II includes the study of special treatments and techniques for different conditions encountered in the dead human body. Blackboard Course (BbOC) computer skills recommended but not required. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Mortuary Science 213, Biology 226, 227, 130, and 131.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

MUSIC (0060)

Music 101 Fundamentals of Music Theory

Introduction to music theory and application: rhythm, meter, scales, intervals, triads and musical terminology; development of aural and keyboard skills. Writing assignments, as appropriate to the discipline, are part of the course. No credit toward graduation for music majors.

Prerequisite(s): Eligibility for Math 99 or Higher or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

GE: Fine Arts

Music 102 Music Theory I

Realization of figured and unfigured bases and harmonization of melodies. Triads and inversions. Harmonic analysis. Keyboard application. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Music 101, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK TR HW WR

Music 103 Music Theory II

Realization of figured and unfigured bass and harmonization of melodies. Chords of the seventh and ninth sequences, diatonic modulation. Harmonic analysis. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Music 102, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

Music 105 Group Piano I

Class instruction in beginning piano techniques through study in small groups. Writing assignments, as appropriate to the discipline, are part of the course. 1 lecture and 2 lab hours per week.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Music 106 Group Piano II

Continuation of Music 105. Minimum of six hours practice per week required for credit. Students majoring in music are required to take two semesters of study with a private instructor following this course. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Music 105, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA KK OH HW WR

Music 107 Jazz Improvisation Pt I

Fundamentals of improvisation; performing improvised solos, both on standard chord changes and original compositions. Topics covered include: ear training, II-V-I progressions, substitutes of the II-V-I progression, simple blues, bebop scales, intervals and random chord exercises which lead to altered dominants and more contemporary concepts. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Music 101 and concurrent enrollment in Music 135, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: HW WR

Music 108 Jazz Improvisation Pt II

Further study of improvisation: performing improvised solos on standard chord changes and original compositions. The covered topics include altered dominant seventh chords, the 12 tone row, advanced blues, rhythm changes, turnarounds, learning tunes by ear, and improvising on them, extensions, substitute chords, modal harmony, free improvisation, note positions and other scales. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Music 107 and concurrent enrollment in Music 135, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: HW WR

Music 109 Jazz/Pop Ensemble

Rehearsal and performance of songs from jazz and popular music repertoires. In addition, the course will cover the skills needed as a professional musician. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: HW WR

Music 110 Jazz/Pop Ensemble: Blues Emphasis

Rehearsal and performance of songs in the blues genre. In addition, the course will cover the skills needed to succeed as a professional musician. Repeatable for credit up to four credit hours. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: KK HW WR

Music 111 Aural & Keyboard Skills I

Sight singing, ear training and rhythmic dictation with keyboard application. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Music 101, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: OH HW WR

Music 112 Aural & Keyboard Skills II

Continuation of Music 111. Advanced ear training and sight singing, melodic dictation and more complex harmonic structures. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Music 111, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: OH HW WR

Music 113 String Class

Class instruction in fundamentals of violin, viola, violoncello and string bass; principles of bow control and elementary left hand technique; each student required to demonstrate techniques and develop performing technique; readings to be assigned. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: WR

Music 114 Guitar Class

Programmed, audio-visual music course, emphasizes the development of guitar playing skills. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: HW WR

Music 119 Percussion Class

Class instruction in percussion instruments; each student required to demonstrate techniques and develop performing ability; readings to be assigned. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: HW WR

Music 120 Introduction to Music Business

Overview of the music business including recording, publishing, management, marketing and other related topics. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

Music 121 Introduction To Music

Elements, structure, listening, literature, aesthetic perspective; concert attendance. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 OR Consent of Department Chairperson

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: F1 900 GE: Fine Arts

Music 122**Perspectives In Jazz**

Introduction to jazz, its historical background and its development in the United States. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH HW

Music 131**Chorus**

This course trains students in vocal performance, familiarizes them with choral literature, and provides opportunities for public performances and musical performances for college functions. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated six credit hours will be counted towards graduation.

1 Lecture Hours. 0.5 – 2 Lab Hours. 1 -2 Credit Hours.

Offered at: KK OH TR HW WR

GE: Fine Arts

Music 124**Trends In Mod Amer Music**

Exploration of what has been happening in this century in American music; includes review of social conditions that have nourished these trends and discussion of folk, blues, jazz, country and western, rock, musical theater, and classical music. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: F1 904 GE: Fine Arts

Music 131**Chorus**

This course trains students in vocal performance, familiarizes them with choral literature, and provides opportunities for public performances and musical performances for college functions. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated six credit hours will be counted towards graduation.

1 Lecture Hour. 0.5- 2 Lab Hours. 1-2 Credit Hours.

Offered at: KK OH TR HW WR

GE: Fine Arts

Music 133**Concert Band**

Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated four credit hours will be counted towards graduation.

Prerequisite(s): Consent of Department Chairperson.

1 Lecture Hours. 0.5 Lab Hours. 1 Credit Hour.

Offered at: WR

Music 134**Orchestra**

Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated four credit hours will be counted towards graduation.

Prerequisite(s): Consent of Department Chairperson.

1 Lecture Hours. 0.5 Lab Hours. 1 Credit Hour.

Offered at: WR

Music 135**Instrumental Ensembles**

String quartets, brass ensembles, jazz workshops, stage band. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated four credit hours will be counted towards graduation.

Prerequisite(s): Consent of Department Chairperson.

1 Lecture Hours. 0.5 Lab Hours. 1 Credit Hour.

Offered at: HW WR

Music 136**Vocal Ensembles**

Madrigal groups, trios, quartets, etc. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated four credit hours will be counted towards graduation.

Prerequisite(s): Consent of Department Chairperson.

1 Lecture Hours. 0.5 Lab Hours. 1 Credit Hour.

Offered at: TR HW WR

Music 150**Class Voice I**

Group instruction in fundamentals of singing, voice production, breathing, diction, vocalizing, and technical exercises; elementary song literature as student progresses. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: OH HW WR

Music 151**Class Voice II**

Continued development of proper use of the voice; greater attention to literature; songs in English, Italian, German. Writing assignments, as appropriate to the discipline, are part of the course. Juried examination for credit.

Prerequisite(s): Grade of C or better in Music 150, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: HW WR

Music 180**Applied Music-Elective Level**

Individual instruction in applied music to prepare students for Music 181. Includes private lesson (minimum of one hour). Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Students must own (or have access to) the instrument they plan on studying.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: HW

Music 181**Applied Music-Freshman Level I**

Individual instruction in applied music. Includes weekly private lesson (minimum of one hour). First of a four-course sequence of private music lessons required of students in Associate in Fine Arts music curriculum. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: HW WR

Music 182 Applied Music-Freshman Level II

Continuation of the process initiated in Music 181. Individual instruction in applied music. Includes weekly private lessons (minimum of one hour). Second of a four-course sequence of private music lessons required of students in Associate in Fine Arts Music curriculum. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Music 181, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: HW WR

Music 183 World Music

A study of representative music of the non-Western world, with an emphasis on its function within the culture of which it is a part. Elements, structure, listening, aesthetic perspectives; concert attendance. Students need no prior formal training or education in music to take this course. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK OH TR HW WR

IAI: F1 903N **GE:** Fine Arts HD Course

Music 200 Black Music Workshop

Contributions of African-American musicians to development of classical music, American style; study of work of contemporary artists, use of Afro-Cuban instruments. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: OH

HD Course

Music 201 Music Theory III

Written harmonization of melodies with strict style figuration. Eleventh and thirteenth chords, modal and chromatic alterations, chromatic modulation. Harmonic analysis. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Music 103, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

Music 202 Music Theory IV

Extended tonality, chromatic harmonies, contemporary harmonic trends, inharmonic modulation. Harmonic analysis. Keyboard application. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Music 201, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

Music 204 Commercial Music Workshop I

Composition, arrangement, and performance of commercial music. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: KK HW

Music 205 Commercial Music Workshop II

Continuation of Music 204. Extended original composition; use of microphone and recording techniques; their influence upon orchestration. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Music 204, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: KK HW

Music 211 Aural and Keyboard Skills III

Continuation of Music 112. Further development of aural perception (melodic, rhythmic, and harmonic dictation) and abilities in sight-singing (single melodies and duets). Application of harmonic concepts at the keyboard. This course is the third in a four-semester sequence of courses in which music majors need to enroll each term of the freshman and sophomore year. The course may be offered separately or with one or more topics combined. Aural skills include sequential development of ear training, sight singing, and dictation and may also include computer-assisted instruction and/or other applications. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Music 112, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: HW WR

Music 212 Aural and Keyboard Skill IV

Continuation of Music 113. Further development of aural perception (melodic, rhythmic, and harmonic dictation) and abilities in sight-singing (single melodies and duets). Application of harmonic concepts at the keyboard. This course is the fourth in a four-semester sequence of courses in which music majors need to enroll each term of the freshman and sophomore year. The course may be offered separately or with one or more topics combined. Aural skills include sequential development of ear training, sight singing, and dictation, and may also include computer-assisted instruction and/or other applications. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Music 113, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: HW WR

Music 221 Music Literature & History

Introduction to the standard concert repertory through intensive guided listening. Representative works by major composers are chosen to illustrate the principal styles, forms and techniques of vocal and instrumental music. Assumes a fundamental knowledge and understanding of the elements of music. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

IAI: F1 901 **GE:** Fine Arts

Music 225 Individual Project

Individual project as determined with the instructor. Students would also be required to complete an internship as chosen through a discussion with the instructor. Eligibility for course repetition for additional credit hours determined by the instructor. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated four credit hours will be counted towards graduation.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: HW

Music 281**Applied Music-Sophomore Level I**

Individual instruction in applied music. Includes weekly private lesson (minimum of one hour). Third course in a four-course sequence of private music lessons required of students in Associate in Fine Arts music curriculum. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Music 181, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: HW WR

Music 282**Appl Music-Soph Lvl II**

Individual instruction in applied music. Includes weekly private lesson (minimum of one hour). Last course in a four-course sequence of private music lessons required of students in Associate in Fine Arts music curriculum. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Music 281, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: HW WR

NETWORKING TECHNOLOGIES (0165)**Networking Technologies 101****Client-Server Database I**

This course introduces client-server Relational Database Management Systems (RDBMS) that are commonly used to design scalable databases. Topics include relational database terminology and concepts, database design using Normalization, Data Modeling and Entity-Relationship (ER) models, schemas, using Structured Query Language (SQL) for database construction and application processing, and additional data-base-related concepts. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA MX OH TR WR

Networking Technologies 111**Intro to Computer Electronics**

Introduction to concepts and principles used in modern computers and computer circuits; basic computer numbers systems; computer architecture; exposure to computer languages; digital logic. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in CIS 116, or Consent of Department Chairperson.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: DA TR

Networking Technologies 119**Intro To Networking**

Covers the basics of networking from the component hardware to the topology and theoretical foundation of networks. Emphasis will be placed on learning current networking theoretical models and on supporting and maintaining a network. Various types of networks and various topologies will be covered. This course is ideal for the individual that wants to obtain a solid foundation in the principles of Networking. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in CIS 116, or Consent of Department Chairperson.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: DA TR

Networking Technologies 121**Internetworking I**

This course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation in networking technologies. Writing assignments,

as appropriate to the discipline, are part of the course. NOTE: CIS 101 or CIS 116 or COMPSFI 101 recommended prior to enrolling in this course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA MX OH TR WR

Networking Technologies 122**Internetworking II**

This course describes the architecture, components, and operations and routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality, and the essential routing protocols and virtual LAN operation in both IPv4 and IPv6 networks. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in NET TEC 121, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA OH TR WR

Networking Technologies 201**Client-Server Database II**

In this course, the students shall learn of the how to manage a client-server database - serve as database management administrator (DBA), learn techniques to create initial database, configure storage space, add/delete/modify users, and security issues for a database. Network configuration and performance tuning will be covered in more advance courses. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA

Networking Technologies 202**Client-Server Database III**

In this course, the students shall learn of the how to manage a client-server database - serve as database management administrator (DBA), learn procedures necessary to recover a database failure, and ensure network accessibility for a client-server database. Student will learn both command-line and GUI interfaces to perform these procedures. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA

Networking Technologies 203**Client-Server Database IV**

In this course, the students will learn how to tune a client-server database and serve as database management administrator (DBA): learn tuning concepts, diagnose and prevent lock contention, discuss difference between dedicated and shared servers, prevent performance degradation as well as use tools to diagnose, troubleshoot and optimize database productivity. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: DA

Networking Technologies 221**Internetworking III**

This course describes the architecture, components, and operations of routers and switches in larger and more complex networks. Students learn how to configure routers and switches for advanced functionality, resolve common issues in both IPv4 and IPv6 networks, and implement a WLAN in a small-to-medium network. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in NET TEC 122, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA MX OH TR WR

Networking Technologies 222**Internetworking IV**

This course discusses the WAN technologies and network services required by converged applications in a complex network. In a complex hierarchical networks, students will learn the selection criteria of network devices and WAN technologies to meet network requirements, configure and troubleshoot network devices, resolve common issues with data link protocols, and develop the knowledge and skills needed to implement virtual private network (VPN) operations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in NET TEC 221, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA MX OH TR WR

Networking Technologies 240**Operating Systems/Server I**

This course introduces the concepts and components of a domain server to manage and serve the resources available in a network environment. The fundamentals of a domain controller including domain services, network name resolution, resource containers, directory management, and network accessibility are discussed with hands on learning experience. The processes of server installation, configuration, and maintenance will establish the necessary knowledge for planning and implementing advanced services. Writing assignment, as appropriate to the discipline are part of the course. Allowed repeatable course: course may be repeated up to three times and may count for a maximum of four variable credits. Consent of Department Chairperson required for repeatability.

Prerequisite(s): Grade of C or better in CIS 116 or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA MX OH TR WR

Networking Technologies 260**Microcomputers**

Introduction to microcomputer architecture, peripheral and input/output devices. Testing, troubleshooting, upgrading and repair of microcomputer systems. Writing assignments, as appropriate to the discipline, are part of the course

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: DA TR

Networking Technologies 270**Local Area Networks**

Selection and installation of network hardware and software. Management and maintenance of networks. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Courses may be repeated up to three times and may count for a maximum of four variable credits. Consent of Department Chairperson required for repeatability.

Prerequisite(s): Grade of C or better in (CIS 116 or NET TEC 240), or Consent of Department Chairperson.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: DA TR

Networking Technologies 299**Special Topics Networking Systems Technologies**

Special topics in networking systems and technology will be discussed along with appropriate lab and/or field trip activities. New developments will be emphasized, especially materials useful in K12 education and industry. Writing assignments, as appropriate to the discipline are part of the course. Allowed Repeatable Course: Courses may be repeated up to three times when topics are different, and may count for a maximum of four variable credits. Consent of Department Chairperson required for repeatability.

1 - 4 Lecture Hours. 1 - 4 Credit Hours.

Offered at: DA OH TR WR

NURSING (0063)**Nursing 101****Fundamentals of Nursing**

This course is an introduction to the nursing profession and patient-centered care. Emphasis is placed on the knowledge and skills needed to provide quality care to culturally diverse communities. Concepts of focus are communication, safety and professionalism. The theoretical foundation for health assessment and nursing skills is presented and the student is given an opportunity to demonstrate these skills in a laboratory setting. An introduction to the nursing process provides a decision-making framework to assist students in developing effective decision-making skills. Theoretical concepts and clinical nursing skills contained in this course are consistent with the skills standards developed from the State of Illinois as stated in the Nurse Practice Act, IL 1300.340 Approval of Programs sub section F Curriculum and instruction. Writing assignments as appropriate to the discipline are a part of the course.

Prerequisite(s): Successful completion of English 101, Biology 121, Chemistry 121 or higher-level chemistry, Math 118 or higher General Education Math, and Admission to the City Colleges of Chicago School of Nursing Associate's Degree in Nursing Program.

3 Lecture Hours. 8 Lab Hours. 7 Credit Hours.

Offered at: MX

Nursing 102**Introduction to Medical-Surgical**

This course focuses on the care of adult patients with one primary comorbidity that requires medical and / or surgical intervention. Emphasis is placed on the care of patient and their families. Concepts of patient-centered care, communication, professionalism, cultural sensitivity, safe practice, teamwork and collaboration and informatics are integrated throughout the course. More complex health assessment and nursing skills are presented and students practice and demonstrate these skills in the laboratory and clinical settings. Clinical experiences provide students an opportunity to apply theoretical concepts and implement safe patient care to adults in acute care settings. Theoretical concepts and clinical nursing skills contained in this course are consistent with the skills standards developed from the State of Illinois as stated in the Nurse Practice Act, IL 1300.340 Approval of Programs sub section F Curriculum and instruction. Writing assignments as appropriate to the discipline are a part of this course.

Prerequisite(s): Admission to the City Colleges of Chicago Nursing Program and successful completion of Nursing 101 with a C or better. LPN licensure for students admitted through the bridge cohort.

3 Lecture Hours. 8 Lab Hours. 7 Credit Hours.

Offered at: MX

Nursing 140**LPN to RN Role Transition**

This course is an introduction to the implementation of the nursing process & documentation. Emphasis will be placed on the development of critical thinking skills in the application of the nursing process. This will be achieved through exercises in care planning and nursing documentation. Students learn and utilize nursing assessment, nursing diagnosis, nursing interventions, nursing outcomes, critical pathways, and other nursing documentation methods. Theoretical concepts and clinical nursing skills contained in this course are consistent with the skills standards developed from the State of Illinois as stated in the Nurse Practice Act, IL 1300.340 Approval of Programs sub section F Curriculum and instruction. Written assignments as appropriate to the discipline are a part of this course.

Prerequisite(s): LPN Licensure and Admission to the City Colleges of Chicago AAS Nursing program.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Nursing 150 Nursing Fundamentals I

The concepts of holism, nursing practice, multicultural society and communication are studied for purposes of assisting persons to meet their basic needs. The role of the practical nurse in the use of the nursing process is studied and practiced in classroom, laboratory and long-term settings specifically in relation to protection against infection and providing for safety, mobility, comfort, hygiene, elimination and nutrition needs. Theoretical concepts and clinical nursing skills contained in this course are consistent with the skills standards developed for the State of Illinois. Writing assignments, as appropriate to the discipline, are part of the course. Prerequisite: Admission into Practical Nursing Program 240.

Prerequisite(s): Admission into Practical Nursing Program 240.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: MX WR

Nursing 151 Nursing Fundamentals II

Students learn to administer medications and to use the nursing process to care for persons having surgery. The nursing process is also used to assist persons with oxygen, wound care, fluid and electrolyte, and rest and sleep needs and to assist persons who need relief from pain. Learning in classroom, lab and clinical settings foster professional growth. Theoretical concepts and clinical nursing skills contained in this course are consistent with the skills standards developed for the State of Illinois. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission into Practical Nursing Program 240, Grade of C or better in Nursing 150, or Consent of Department Chairperson.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: MX WR

Nursing 152 Nursing Perspectives

The course introduces students to the philosophy, conceptual framework, outcomes and competencies of the program. Nursing practice, nursing process and the therapeutic relationship are studied along with the ethical and legal aspects of nursing from the perspective of nursing practice in today's society. Contemporary health care delivery issues are also discussed. Theoretical concepts and clinical nursing skills contained in this course are consistent with the skills standards developed for the State of Illinois. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission into Practical Nursing Program 240.

2 Lecture Hours. 2 Credit Hours.

Offered at: MX WR

Nursing 153 Nursing Thru Life Span 1

This course focuses on the care of clients throughout the life span experiencing common disorders interfering with oxygenation, nutrition, elimination, hormonal balance, and protection from infection. The student integrates previous knowledge relating to the concepts of holism, nursing practice, nursing process, multicultural society, and communication. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Nursing 151 and Nursing 152 and Biology 226.

3 Lecture Hours. 4 Lab Hours. 5 Credit Hours.

Offered at: MX WR

Nursing 154 Nursing Thru Life Span II

Focusing on meeting the basic needs of mothers and children and their families, the student integrates previous learning relating to the concepts of holism, nursing practice, nursing process, multicultural society and communication. Preventive, supportive and therapeutic care is learned in class, lab and clinical settings. Students are expected to demonstrate professional growth and to function within the provisions of the most current Illinois Nurse Practice Act. Theoretical concepts are consistent with the skills standards developed for the State of Illinois. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in NURSING 151, 152 and BIOLOGY 226.

3 Lecture Hours. 4 Lab Hours. 5 Credit Hours.

Offered at: MX WR

Nursing 155 Nursing Thru Life Span III

This course focuses on the care of persons throughout the life span experiencing the most common disorders interfering with sexuality, mobility, and safety (including mental health disorders). Cancer is also studied because of its interferences with all basic needs. Students integrate previous related learning and are expected to demonstrate professional growth and to function within the provisions of the Illinois Nursing Act of 2007. Theoretical concepts and clinical nursing skills contained in this course are consistent with the skills standards developed for the State of Illinois. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Nursing 154 and Biology 227.

2 Lecture Hours. 8 Lab Hours. 6 Credit Hours.

Offered at: MX WR

Nursing 203 Nursing Leadership

This course facilitates the transition of the student into the role of a professional nurse. Previously learned concepts continue to be emphasized along with evidence-based practice, quality improvement, and leadership. Emphasis is placed on contemporary issues, appreciation of human diversity, cultural competence and management concepts. Principles of delegation and conflict management will be emphasized. Strategies to guide personal and professional development will guide short term and long term career goals. Legal and ethical issues are discussed with a focus on personal accountability and responsibilities. Standards of practice and the significance of functioning according to the state regulations and statutes are analyzed. Theoretical concepts and clinical nursing skills contained in this course are consistent with the skills standards developed from the State of Illinois as stated in the Nurse Practice Act, IL 1300.340 Approval of Programs sub section F Curriculum and instruction. Writing assignments as appropriate to the discipline are a part of this course.

Prerequisite(s): Grade of C or better in Nursing 210 and Nursing 211.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX WR

HD Course

Nursing 210 Intermediate Medical-Surgical Nursing

This course focuses on the care of adult patients with multiple comorbidities who require medical and/or surgical interventions. Emphasis is placed on helping patients, their families, and groups cope with alterations in body functions. Concepts focused upon in previous courses continue to be emphasized along with teamwork and collaboration, informatics, evidence-based practice and quality improvement. More complex health assessment and nursing skills are presented and students practice and demonstrate these skills in the laboratory and clinical settings. Clinical experiences provide the student with an opportunity to apply theoretical concepts and implement safe care to one or two clients and selected groups in a variety of settings. Theoretical concepts and clinical nursing skills contained in this course are consistent with the skills standards developed from the State of Illinois as stated in the Nurse Practice Act, IL 1300.340 Approval of Programs sub section F Curriculum and instruction. Writing assignments as appropriate to the discipline are a part of the course.

Prerequisite(s): Grade of C or better in Nursing 102, Biology 227, Microbiology 233; for LPN Bridge Students Nursing 140.

3 Lecture Hours. 6 Lab Hours. 6 Credit Hours.

Offered at: MX WR

Nursing 211**Maternal-Newborn/Mental Health**

This course focuses on two clinical areas; the childbearing family as well as patients, families and groups who are experiencing cognitive, mental and behavioral disorders. In relation to the childbearing family an integrative, family-centered approach to the care of mothers and newborns is promoted. Emphasis is placed on normal and high-risk pregnancies, normal growth and development, family dynamics and the promotion of health behaviors in the patients. In relation to patients, families and groups who are experiencing cognitive, mental and behavioral disorders emphasis is placed on management of those facing physical and psychological stressors as well as promoting and maintaining the mental health of individuals and families. Concepts of crisis intervention, therapeutic communication, anger management and coping skills are integrated throughout the course. The community as a site for care and support services is addressed. Health assessment and nursing skills continue to be presented and students practice and demonstrate these skills in the laboratory and clinical settings. Clinical experiences provide students with the opportunity to apply theoretical concepts and implement safe, quality, evidence-based patient care in selected settings. Theoretical concepts and clinical nursing skills contained in this course are consistent with the skills standards developed from the State of Illinois as stated in the Nurse Practice Act, IL 1300.340 Approval of Programs sub section F Curriculum and instruction. Written assignments as appropriate to the discipline are a part of this course.

Prerequisite(s): Grade of C or better in Nursing 102, Biology 227, Microbiology 233; for LPN bridge students Nursing 140.

3 Lecture Hours. 6 Lab Hours. 6 Credit Hours.

Offered at: MX WR

Nursing 212**Pediatric/Gerontologic Nursing**

This course focuses on two clinical areas: the childrearing family as well as older adult patients, families, and groups who are experiencing age-related changes. In relation to the childrearing family an integrative, family-centered approach is promoted in the care of children. Emphasis is placed on normal growth and development, family dynamics, common pediatric disorders and the promotion of healthy behaviors in patients. In relation to the care of older adult patients the focus is on addressing their unique physiological and psychosocial needs in addition to the complex, multiple comorbidities. Emphasis is placed on collaborating with the interprofessional healthcare team to retain functional ability within home and residential settings. More complex health assessment and nursing skills continue to be presented and students practice and demonstrate these skills in the laboratory and clinical settings. Clinical experience provides the student with opportunity to apply theoretical concepts and implement safe, quality, evidence-based patient care in clinical settings. Theoretical concepts and clinical nursing skills contained in this course are consistent with the skills standards developed from the State of Illinois as stated in the Nurse Practice Act, IL 1300.340 Approval of Programs sub section F Curriculum and instruction. Written assignments as appropriate to the discipline are a part of this course.

Prerequisite(s): Grade of C or better in Nursing 210 and Nursing 211.

3 Lecture Hours. 6 Lab Hours. 6 Credit Hours.

Offered at: MX WR

Nursing 213**Advanced Medical Surgical**

This course focuses on advanced concepts of nursing care as they relate to adult patients with acute, complex, and multiple comorbidities. Previously learned concepts continue to be emphasized along with evidence-based practice, quality improvement, and leadership. Implementation of priority setting, clinical judgment and tenets of legal and ethical practice are integrated throughout the course. More complex health assessment and nursing skills continue to be presented and students practice and demonstrate these skills in the laboratory and clinical settings. Clinical experiences provide the student with an opportunity to apply theoretical concept and implement safe, quality, evidenced-based care to patients, families and groups in a variety of settings. Theoretical concepts and clinical nursing skills contained in this course are consistent with the skills standards developed from the State of Illinois as stated in the Nurse Practice Act, IL 1300.340 Approval of Programs sub section F Curriculum and instruction. Written assignments as appropriate to the discipline are a part of this course.

Prerequisite(s): Grade of C or better in Nursing 210 and 211.

3 Lecture Hours. 6 Lab Hours. 6 Credit Hours.

Offered at: MX WR

OCCUPATIONAL THERAPY ASSISTANT (0122)

Occupational Therapy Assistant 106 Foundations of Human Occupation

This course explores the meaning of human occupation and its relationships to health, illness and disability. The historical roots of occupational therapy are explored and linked to the roles of contemporary occupational therapy practitioners. Students will experience a variety of learning strategies and activities as a means to gaining understanding of occupation, the occupational therapy process and the skills needed by a healthcare professional. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: WR

Occupational Therapy Assistant 107 Occupations Of Childhood

The first in a sequence of courses addressing the emergence of occupational behaviors, skills and life roles in humans throughout the life span. This course presents occupational and developmental frameworks for understanding the occupational nature of infants and children through 12 years of age, their families and caregivers. Means of applying the occupational therapy process by the occupational therapy assistant is studied within the contexts of a variety of disorders, conditions and circumstances affecting this period of human development. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Consent of Department Chairperson.

4 Lecture Hours. 2 Lab Hours. 5 Credit Hours.

Offered at: WR

Occupational Therapy Assistant 108 Practice Skills of OT Assistant I

Structured experiential learning will provide opportunities for the student to solidify knowledge, develop and practice professional skills and behaviors utilized in the occupational therapy process with infants, children through twelve years of age and their families in a variety of settings. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: WR

Occupational Therapy Assistant 109 Occupations of Adolescence Early Adulthood

The second in a sequence of courses addressing the emergence of occupational behaviors, skills and life roles in humans throughout the life span. This course presents theoretical frameworks and models for understanding the occupational nature of adolescents and young adults at home, at school and in the community. Approaches to applying the occupational therapy process by the occupational therapy assistant is studied within the contexts of a variety of disorders, conditions and circumstances affecting this period of human development. Writing assignments, as appropriate to the discipline, are part of the course.

4 Lecture Hours. 2 Lab Hours. 5 Credit Hours.

Offered at: WR

Occupational Therapy Assistant 110 Practice Skills of OT Assistant II

Structured experiential learning will provide opportunities for the student to solidify knowledge, develop and practice professional skills and behaviors utilized in the occupational therapy process in a variety of settings with adolescents and young adults. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: **WR**

Occupational Therapy Assistant 209 Occupation of Middle Adulthood

The third in a sequence of courses addressing the emergence of occupational behaviors, skills and life roles in humans throughout the life span. This course presents theoretical frameworks and models for understanding the occupational nature of the middle adulthood years in home settings, work environments, and in multiple levels of community. Approaches to applying the occupational therapy process by the occupational therapy assistant is studied within the contexts of a variety of disorders, conditions and circumstances affecting this period of human development. Writing assignments, as appropriate to the discipline, are part of the course.

4 Lecture Hours. 2 Lab Hours. 5 Credit Hours.

Offered at: **WR**

Occupational Therapy Assistant 210 Practice Skills of OT Assistant III

Structured experiential learning will provide opportunities for the student to solidify knowledge, develop and practice professional skills and behaviors utilized in the occupational therapy process in a variety of settings with middle-aged adults. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: **WR**

Occupational Therapy Assistant 211 Special Topics for OT I

The first of a two course sequence designed to develop knowledge and skills needed for the provision of occupational therapy services to special populations. Students will explore the role of the occupational therapy assistant in a variety of service delivery contexts. A variety of strategies used to engage in collaborative occupational therapy supervisory relationships in settings without occupational therapists will be addressed. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: **WR**

Occupational Therapy Assistant 212 Occupations of Later Adulthood

The fourth in a sequence of courses addressing the emergence of occupational behaviors, skills and life roles in humans throughout the life span. This course presents theoretical frameworks and models for understanding the occupational nature of later adulthood in multiple living settings, work-related environments, and in community. Approaches to applying the occupational therapy process by the occupational therapy assistant is studied within the contexts of a variety of disorders, conditions and circumstances occurring during this period of human development. Writing assignments, as appropriate to the discipline, are part of the course.

4 Lecture Hours. 2 Lab Hours. 5 Credit Hours.

Offered at: **WR**

Occupational Therapy Assistant 213 Practice Skills of OT Assistant IV

Structured experiential learning will provide opportunities for the student to solidify knowledge, develop and practice professional skills and behaviors utilized in the occupational therapy process in a variety of settings with elders. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: **WR**

Occupational Therapy Assistant 214 Special Topics for OTA II

The second of a two course sequence designed to develop knowledge and skills needed for the provision of occupational therapy services to special populations. Students will explore the role of the occupational therapy assistant in a variety of service delivery contexts. A variety of strategies used to engage in collaborative occupational therapy supervisory relationships in settings without occupational therapists will be addressed. A special populations independent study incorporating fundamentals of entrepreneurship and marketing is included. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: **WR**

Occupational Therapy Assistant 215 Fieldwork Level II

Students will apply and synthesize the knowledge base skills and attitudes of an occupational therapy assistant in a supervised health care fieldwork experience. Fieldwork placements in a community settings or institutions will afford students opportunities to engage in occupation-based practice with individuals across the lifespan and who may experience a variety of disorders and conditions. The course includes a campus-based student seminar to support the process of professional skills acquisition. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Consent of Department Chairperson.

2 Lecture Hours. 20 Lab Hours. 6 Credit Hours.

Offered at: **WR**

Occupational Therapy Assistant 216 Fieldwork Level B

Students will apply and synthesize the knowledge base, skills and attitudes of an occupational therapy assistant in a supervised health care fieldwork experience. Fieldwork placements in community settings or institutions will afford students opportunities to engage in occupation-based practice with individuals across the lifespan and who may experience a variety of disorders and conditions. The course includes a campus-based student seminar to support the process of professional skills acquisition. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Consent of Department Chairperson.

2 Lecture Hours. 20 Lab Hours. 6 Credit Hours.

Offered at: **WR**

OCEANOGRAPHY (0070)

Oceanography 101 Intro To Oceanography

Third dimension of the ocean, its depth, and as new frontier awaiting exploration; interdisciplinary study of ocean and interphase between air and water and how it affects the physical environment. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: **OH TR**

IAI: P1 905 GE: Physical Sciences

PHARMACY TECHNOLOGY (0062)

Pharmacy Technology 100 IV Preparation

This course provides basic understanding and training of intravenous preparations of sterile products, clothing, equipment, calculations and documentation. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Current Licensed and Certified Pharmacy Technician

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: **MX**

Pharmacy Technology 101 Pharmacology Allied Health

Principles and characteristics of drugs, including physical and chemical properties, dosage calculations, effects and reactions, toxicity, emergency procedures and methods of administration. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission to the Pharmacy Technology program/plan 254.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: MX

Pharmacy Technology 102 Basic Science for Allied Health Personnel

Fundamental biological and biochemical principles as applied to allied health personnel. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission to the Pharmacy Technology program/plan 254.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: MX

Pharmacy Technology 103 Intro To Pharmacy Technology

This course introduces the student to the field of pharmacy technology. Included is an overview of the Pharmacy Technician certificate program, definition of the pharmacy technician's role, and a review of opportunities open to the pharmacy technician. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission to the Pharmacy Technology program/plan 254.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: MX

Pharmacy Technology 104 Pharmaceutical Calculations

Designed to provide mathematical tools for students enrolled in the pharmacy technology program. Emphasis is on practical aspects of mathematics and less upon the theoretical. Topics include, but are not limited to: fundamentals of measurement and calculation; interpretation of prescription or medication order; the metric system; calculation of doses; reducing and enlarging formulas; and percentage and ratio calculation. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission into the Pharmacy Tech Program/Plan 254.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Pharmacy Technology 105 Prescription Compounding

This course provides a basic understanding and training of compound preparations of products, equipment, calculations and documentation. Writing and reading assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Current Licensed and Certified Pharmacy Technician

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: MX

Pharmacy Technology 113 Prescription Processing

Provides basic understanding of the person / pharmacy computer prescription processing software and the development of keyboarding skills. Learn to produce all requisite documentation for the pharmacy. Writing assignments, as appropriate to the discipline, and part of the course.

Prerequisite(s): Admission to the Pharmacy Technology program/plan 254.

2 Lecture Hours. 2 Credit Hours.

Offered at: MX

Pharmacy Technology 121 Pharmacy Communication

Provides basic communication skills and pharmacy practice including verbal, nonverbal communication. Communication barriers, listening/empathic responding, assertiveness, interviewing assessment, patient outcomes, communications with special patients/children about medications are explored in this profession. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Pharmacy Technology 201 Intro To Pharmacy Law

Overview of legal aspects of the pharmacy practice, including a review of the Federal Controlled Substances Act and Illinois statutes, rules and regulations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission to the Pharmacy Technology program/plan 254.

1 Lecture Hour. 1 Credit Hour.

Offered at: MX

Pharmacy Technology 202 Pharmacy Operations

Fundamentals and specifics of drug distribution in hospital and retail pharmacies, including bulk compounding, packaging, quality control, inventory control, drug storage and a variety of drug delivery systems. Mathematical calculations for basic pharmacy operations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission to the Pharmacy Technology program/plan 254.

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: MX

Pharmacy Technology 204 Clinical Practicum I

This course is designed to provide employment skills as a concurrent and integral part of a student's educational program in pharmacy technology. Supervised work experience in ambulatory care pharmacy practice is provided by applying the knowledge and training learned in related pharmacy technology courses. Training also involves progression from role of observer to assistant, then to relative independence under the direct supervision of a registered pharmacist and clinical coordinator. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in PHAR TC 101, 102 and 103.

2 Lecture Hours. 10 Lab Hours. 4 Credit Hours.

Offered at: MX

Pharmacy Technology 205 Clinical Practicum II

This course is designed to provide employment skills as a concurrent and integral part of a student's educational program in pharmacy technology. Supervised work experience in ambulatory care pharmacy practice is provided by applying the knowledge and training learned in related pharmacy technology courses. Training also involves progression from role of observer to assistant, then to relative independence under the direct supervision of a registered pharmacist and clinical coordinator. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admittance into the Pharmacology Technician Program or Consent of Department Chair and Grade of C or better in PHAR TC 201 and 202.

2 Lecture Hours. 10 Lab Hours. 4 Credit Hours.

Offered at: MX

PHI THETA KAPPA (0131)**Phi Theta Kappa 101****Phi Theta Kappa Leadership Development**

Development of leadership abilities through the study of classic examples in The Great Books and through experiential exercises. Includes topics on leadership and group dynamics, moral and ethical responsibilities of leadership, delegation of authority. Conflict resolution, essential leadership skills, and productive leadership behavior. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA HW WR

PHILOSOPHY (0043)**Philosophy 105****Logic**

This course introduces students to methods of reasoning, inference and argument. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: H4 906 GE: Humanities

Philosophy 106**Introduction To Philosophy**

Introduction to philosophical methods of inquiry through analysis and evaluation of influential philosophical ideas. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: H4 900 GE: Humanities

Philosophy 107**Ethics**

Introduction to representative ethical systems; approaches to problems of values and conduct. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: H4 904 GE: Humanities

Philosophy 108**Philosophy Of Religion**

Introduction to major religious traditions, analyzing various conceptions of God, values, reason, and faith. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: H4 905 GE: Humanities

Philosophy 110**Social/Political Philosophy**

Discussion of readings in philosophy covering issues such as justice, authority, obligation, rights, power, freedom and well-being. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

IAI: PLS 913; IAI: H4 907 GE: Humanities

Philosophy 151**Bioethics**

This course will prepare students to develop and apply explicit, coherent reasoning and judgement to important issues in the ethics of healthcare and to address the philosophical issues of human personhood, life, death, and suffering. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: OH

Philosophy 201**Greek Philo To Renaissance**

Introduction to philosophical problems encountered in science, ethics and politics, and art. Readings from Plato, Aristotle, St. Augustine, St. Thomas, St. Bonaventure and other Renaissance thinkers. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

IAI: H4 901 GE: Humanities

Philosophy 202**Enlightenment To Present**

Continuation of Philosophy 201; covers the periods from the 17th century to the present. Readings from Descartes, Spinoza, Locke, Hume, Kant, Russell and Sartre. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

IAI: H4 902 GE: Humanities

Philosophy 215**Problems In Philosophy**

Philosophical problems from such fields as ethics, metaphysics, aesthetics, and philosophy of science. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA TR

IAI: H4 900 GE: Humanities

Philosophy 216**Critical Thinking**

Introduction to the development of cognitive skills to evaluate claims and arguments in order to make sound judgments about beliefs and actions. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA

IAI: H4 906 GE: Humanities

Philosophy 225 Philosophy Of Art

Basic artistic concepts, including artistic creation, the aesthetic experiences; focus on values and meaning in the arts. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

GE: Humanities

PHLEBOTOMY (0113)

Phlebotomy 109

Phlebotomy Practicum and Seminar I

This course provides principles of phlebotomy techniques and examines the phlebotomist's role as a member of the healthcare delivery team. The students will perform simulated phlebotomy procedures on campus and actual procedures in a clinical setting. Medical terminology, anatomy and physiology, communications, interpersonal relations, professional behavior, safety requirements in the healthcare institution, venipuncture and capillary puncture techniques will be discussed. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096 or Consent of Program Director.

2 Lecture Hours. 9 Lab Hours. 5 Credit Hours.

Offered at: MX

Phlebotomy 209

Phlebotomy Practicum and Seminar II

This course provides the student with hands-on experience in both venous and capillary blood drawing in a clinical setting (i.e. hospital and ambulatory health care environment) and in the phlebotomy laboratory during clinical practicum. A minimum of 100 successful unsupervised venipuncture using standard equipment is required for the completion of this course. The students will perform simulated capillary punctures on campus to prepare students in a clinical setting. Topics such as stress management quality assurance and quality control, capillary puncture, continuation of medical terminology legal aspects of phlebotomy, data entry, and cardio-pulmonary resuscitation (CPR), will be discussed. The student will also be trained on how to perform a basic 12-lead electrocardiogram (ECG). Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Successful completion of Phlebotomy Practicum & Seminar I with a grade of "C" or better and consent of program director.

3 Lecture Hours. 16 Lab Hours. 8 Credit Hours.

Offered at: MX

PHYSICAL EDUCATION (0065)

Physical Education 110

Fitness

Concepts, techniques, methods of personal fitness, stressing effects of exercise, relaxation and weight control; fitness programs directed to individual improvement. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated four credit hours will be counted towards graduation.

0.5 - 1 Lecture Hours. 1 - 2 Lab Hours. 1 - 2 Credit Hours.

Offered at: KK MX OH WR

Physical Education 112

Gymnastics And Tumbling

General calisthenics and fundamentals of combinations of simple tumbling, gymnastics, stunts and/or modern gymnastics and practice; competitive aspects and scoring. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated four credit hours will be counted towards graduation.

0.5 - 1 Lecture Hours. 1 - 2 Lab Hours. 1 - 2 Credit Hours.

Offered at: KK MX

Physical Education 114

Jogging

Running techniques to improve organic fitness through individualized programs. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated four credit hours will be counted towards graduation.

0.5 - 1 Lecture Hours. 1 - 2 Lab Hours. 1 - 2 Credit Hours.

Offered at: KK MX OH

Physical Education 116

Self Defense & Combatives

Elements of self-defense; understanding of combatives; conditioning, offensive and defensive tactics, rules and strategy for competition. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated four credit hours will be counted towards graduation.

0.5 - 1 Lecture Hours. 1 - 2 Lab Hours. 1 - 2 Credit Hours.

Offered at: KK MX

Physical Education 118

Weight Training

Development of physical fitness through weight training devices; lifting techniques, circuit training, competitive lifting procedures. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated four credit hours will be counted towards graduation.

0.5 - 1 Lecture Hours. 1 - 2 Lab Hours. 1 - 2 Credit Hours.

Offered at: KK MX OH WR

Physical Education 120

Team Sports

Combination of one or more seasonal sports such as basketball, floor hockey, soccer, softball, touch football and volleyball; theory and practice of fundamental skills, rules of the game and strategy; competition and tournaments within classes. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated four credit hours will be counted towards graduation.

0.5 - 1 Lecture Hours. 1 - 2 Lab Hours. 1 - 2 Credit Hours.

Offered at: MX OH WR

Physical Education 122

Individual Sports

One or more lifetime sports such as archery, badminton, bowling, fencing, golf, skating, skiing, tennis, and track and field; theory and practice of individual skills, rules of the game, techniques of game strategy; competitive tournaments within class. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated four credit hours will be counted towards graduation.

0.5 - 1 Lecture Hours. 1 - 2 Lab Hours. 1 - 2 Credit Hours.

Offered at: KK MX OH

Physical Education 130

Fund Of Swimming

For beginning and intermediate swimmers; breathing techniques, basic strokes, diving and water safety skills. American Red Cross card issued to qualifiers. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated four credit hours will be counted towards graduation.

0.5 - 1 Lecture Hours. 1 - 2 Lab Hours. 1 - 2 Credit Hours.

Offered at: KK MX OH WR

Physical Education 132 Advanced Swim & Water Games

Instruction in all strokes to improve efficiency and speed; diving from pool side, springboard, rescue skills and surface dives; preparation for lifesaving course; individual and team competition in such games as water basketball and water polo. American Red Cross Card issued to qualifiers. Writing assignments, as appropriate to the discipline, are part of the course.

0.5 - 1 Lecture Hours. 1 - 2 Lab Hours. 1 - 2 Credit Hours.

Offered at: KK MX WR

Physical Education 134 Aquatic Skills & Synchronized Swimming

Development of skills for participation in synchronized swimming activities; stunts and combinations of strokes for simple rhythmic routine composition; advanced diving and underwater skills. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated four credit hours will be counted towards graduation.

0.5 - 1 Lecture Hours. 1 - 2 Lab Hours. 1 - 2 Credit Hours.

Offered at: KK MX

Physical Education 140 Dance Survey

Introduction to dance techniques such as square, folk, tap, contemporary, social and ballet. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated four credit hours will be counted towards graduation.

0.5 - 1 Lecture Hours. 1 - 2 Lab Hours. 1 - 2 Credit Hours.

Offered at: KK MX

Physical Education 142 Square & Folk Dance

Fundamentals and practice in basic steps and figures of American and foreign folk dance. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated four credit hours will be counted towards graduation.

0.5 - 1 Lecture Hours. 1 - 2 Lab Hours. 1 - 2 Credit Hours.

Offered at: KK MX

Physical Education 144 Ethnic Dance

Rhythms, dance and cultures of Africa and their interrelationships with Latin American dance and calypso movements. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated four credit hours will be counted towards graduation.

0.5 - 1 Lecture Hours. 1 - 2 Lab Hours. 1 - 2 Credit Hours.

Offered at: KK

Physical Education 146 Contemporary Dance I

Contemporary dance including warm-ups, technique, dance patterns, analysis of rhythm and creative experience in improvisations and simple movement studies. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated four credit hours will be counted towards graduation.

0.5 - 1 Lecture Hours. 1 - 2 Lab Hours. 1 - 2 Credit Hours.

Offered at: KK MX OH WR

Physical Education 148 Contemporary Dance II

Advanced technique, training and principles of movement perception, introduction to fundamentals of dance composition with emphasis on design, form and production. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated four credit hours will be counted towards graduation.

0.5 - 1 Lecture Hours. 1 - 2 Lab Hours. 1 - 2 Credit Hours.

Offered at: KK MX OH WR

Physical Education 150 Ballet

Form, style and performance of basic ballet movements and practice of beginning dances; fundamentals of music related to dance. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated four credit hours will be counted towards graduation.

0.5 - 1 Lecture Hours. 1 - 2 Lab Hours. 1 - 2 Credit Hours.

Offered at: KK WR

Physical Education 152 Tap

Techniques of tap dance; practice and experience in creating simple routines. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated four credit hours will be counted towards graduation.

0.5 - 1 Lecture Hours. 1 - 2 Lab Hours. 1 - 2 Credit Hours.

Offered at: KK MX

Physical Education 160 Adaptive Physical Education

For students restricted by health limitations; activity programs to meet specific needs of the individual. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated four credit hours will be counted towards graduation.

0.5 - 1 Lecture Hours. 1 - 2 Lab Hours. 1 - 2 Credit Hours.

Offered at: KK MX

Physical Education 200 Intro to Physical Education

2 Lecture Hours. 2 Credit Hours.

Offered at: KK

Physical Education 201 Dance Fundamentals

Rhythm as related to movement and dance; skill practice with emphasis on correct performance, interpretation of dance patterns, opportunities for student teaching. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: KK

Physical Education 202 Ballet

Principles of classical ballet, terminology and methods of teaching elementary composition. Writing assignments, as appropriate to the discipline, are part of the course.

0.5 Lecture Hours. 1 Lab Hour. 1 Credit Hour.

Offered at: WR

Physical Education 203 Contemporary & Modern Jazz Dance

Analysis through movement, exploration of dance forms, their similarities and differences; skill practice and teaching experience in each area. Writing assignments, as appropriate to the discipline, are part of the course.

0.5 Lecture Hours. 1 Lab Hour. 1 Credit Hour.

Offered at: KK OH WR

Physical Education 204**Wrestling**

Analysis, instruction and theories of coaching, officiating and match strategy. Writing assignments, as appropriate to the discipline, are part of the course.

0.5 Lecture Hours. 1 Lab Hour. 1 Credit Hour.

Offered at: KK WR

Physical Education 206**Football**

Analysis, instruction, demonstration of fundamental skills; theory of coaching and officiating, styles of play and team strategy. Writing assignments, as appropriate to the discipline, are part of the course.

0.5 Lecture Hours. 1 Lab Hour. 1 Credit Hour.

Offered at: KK

Physical Education 207**Introduction to Personal Training**

This course is designed to prepare students to sit for the personal trainer's exam. The course bridges the gap between exercise science related course work and the practical application skills of personal training. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: WR

Physical Education 212**Volleyball**

Instruction, demonstration and practice of skills; coaching and officiating, styles of play and team strategy. Writing assignments, as appropriate to the discipline, are part of the course.

0.5 Lecture Hours. 1 Lab Hour. 1 Credit Hour.

Offered at: KK

Physical Education 216**Track**

Skills and teaching techniques of track and field events; rules of competition, strategy and team organization of the sport. Writing assignments, as appropriate to the discipline, are part of the course.

0.5 Lecture Hours. 1 Lab Hour. 1 Credit Hour.

Offered at: KK

Physical Education 218**Basketball**

Fundamentals of basketball and techniques of team organization; skills of each position, offensive and defensive skills, team play, strategy and officiating. Writing assignments, as appropriate to the discipline, are part of the course.

0.5 Lecture Hours. 1 Lab Hour. 1 Credit Hour.

Offered at: KK

Physical Education 219**Sports Officiating**

Rules and mechanics of officiating of various team and individual sports; responsibilities and qualifications of an official. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: KK

Physical Education 221**Play & Rhythmic Activities of Early Childhood**

Methods and materials for teaching simple rhythmic games, singing games and other movement experiences for pre-school child; analysis of play situations appropriate to

their needs and abilities. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: KK

Physical Education 224**Tumbling And Gymnastics**

Instruction and practice in teaching fundamental exercises; correct execution, development of skills, methods of giving gymnastic commands, tumbling and pyramid building; instruction and theories of coaching, officiating and competitive needs. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: KK

Physical Education 226**Swim & Senior Life Saving**

Skills of fundamental strokes to improve efficiency and speed; diving from pool side and springboard, rescue skills and surface dives; introduction to coaching of competitive swimming; safety, accident prevention; defense methods, rescue techniques. American Red Cross card issued to qualifiers. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: KK

Physical Education 229**Water Safety Instructor**

Swimming skills and techniques in all strokes, skills and techniques of life saving, water safety; practice in class management and teaching progressions; requirements meet those of American Red Cross Water Safety Instructors training program; American Red Cross Water Safety Instructors certificate issued to qualifiers. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: KK

Physical Education 230**Baseball And Softball**

Basic skills, coaching and officiating styles of play, teaching techniques and team strategy. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: KK

Physical Education 234**Soccer**

History, basic skills, playing tactics, officiating and teaching methods. Writing assignments, as appropriate to the discipline, are part of the course.

0.5 Lecture Hours. 1 Lab Hour. 1 Credit Hour.

Offered at: KK

Physical Education 236**Fitness Programs**

Individual physical development; methods and teaching techniques of various fitness programs; introduction to physiology of exercise. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: KK MX

Physical Education 237**Body Mechanics**

Principles of fitness, including exercise, nutrition, diet, self-analysis, relaxation, posture, movement and sport activity analysis. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: KK MX

Physical Education 244**Tennis**

Basic skills, strategy and playing techniques and teaching methods of tennis; rules, history and court etiquette. Writing assignments, as appropriate to the discipline, are part of the course.

0.5 Lecture Hours. 1 Lab Hour. 1 Credit Hour.

Offered at: KK

Physical Education 246**Golf**

Basic practices and teaching of grip, stance and swing; rules, strategy, course layout, etiquette. Writing assignments, as appropriate to the discipline, are part of the course.

0.5 Lecture Hours. 1 Lab Hour. 1 Credit Hour.

Offered at: KK

PHYSICAL SCIENCE (0076)**Physical Science 101****General Course Physical Science**

Introduction to the scientific method, astronomy, geology, meteorology. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX TR HW WR

IAI: P9 900; IAI: P1 905 GE: Physical Sciences

Physical Science 102**General Course Physical Science**

Introduction to physics and chemistry; the relationship of matter and energy to physical and chemical changes. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK TR WR

IAI: P9 900 GE: Physical Sciences

Physical Science 107**Current Public Issues in Physical Science**

Interdisciplinary approach to physical sciences; current public issues serve as framework for course that covers earth sciences (conservation, pollution, space exploration) as well as other branches of science and social and humanistic aspects; integrates significant aspects of physical science with students other studies as well as daily living. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK MX OH TR HW

IAI: P9 900 GE: Physical Sciences

Physical Science 111**General Course I Physical Science**

Introduction to the scientific method, astronomy, geology, oceanography, and meteorology. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and Math 099 or Higher OR Consent of Department Chairperson.

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: P9 900L GE: Physical Sciences

Physical Science 112**General Course II Physical Science**

Introduction to physics and chemistry; the relationship of matter and energy to physical and chemical changes. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and Math 099 or Higher OR Consent of Department Chairperson.

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: KK OH TR HW WR

IAI: P9 900L GE: Physical Sciences

Physical Science 118**Introduction to Meteorology**

An introductory course examining the physical properties of the atmosphere, radiation heating and cooling, precipitation, clouds, weather disturbances, climate controls, map reading, and application of the scientific method in analyses of the weather elements. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and Math 099 or Higher OR Consent of Department Chairperson.

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: HW

GE: Physical Sciences

Physical Science 295**Independent Research in Physical Science**

This course emphasizes independent, student-driven research under the close supervision of a faculty member. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Eligibility for course repetition for additional credit hours is determined by the instructor. No more than an accumulated 12 credit hours will be counted towards graduation.

Prerequisite(s): Eligibility for English 101 and Math 140 or higher OR Consent of Department Chairperson.

1 Lecture Hour. 6 Lab Hours. 6 Credit Hours.

Offered at: DA KK OH TR HW

PHYSICAL THERAPIST ASSISTANT (0151)**Physical Therapist Assistant 110****Introduction to Physical Therapy**

This course introduces the field of physical therapy (PT) and foundational knowledge of topics threaded throughout the technical portion of the physical therapist assistant curriculum. These topics include, but are not limited to, the history of the profession, PT practice settings, roles and responsibilities of the physical therapist assistant (PTA), the PT/PTA relationship and other interprofessional relationships, ethical and legal considerations in PT, communication skills, cultural competence and diversity in health care related to age, race, ethnicity, socioeconomic status and disability, pharmacology medical terminology, documentation, basic patient safety, patient privacy/comfort, architectural barriers, recognizing and responding to emergency situations, and research and evidence based practice. Upon completion, students should be able to expand upon this foundational knowledge in subsequent courses as it pertains specifically to patient care and conditions/body systems studied. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admittance into the Physical Therapy Assistant Program.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: MX

HD Course

Physical Therapist Assistant 140 Health Promotion & Wellness I

This course introduces the physical therapist assistant student to health promotion and wellness beginning with a reflection of self as an individual and student, as member of the interprofessional healthcare team, and subsequently the community at large. Students will identify strategies for successful navigation of the physical therapist assistant program including identifying personal strengths and weaknesses, self-reflection on health beliefs, and skills to maintain a healthy school-life balance. The second portion of the course will shift beyond self to health promotion and wellness as a member of the community and interprofessional healthcare team. Students will identify, design, and implement an interprofessional initiative to promote the health and wellness of the members of our college community. Upon completion, students should be able to implement skills to maintain a school-life balance to maintain academic success and complete a needs assessment of their environment and implement feasible initiatives aimed at promoting the health and wellness of that community. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admittance into the Physical Therapy Assistant Program.

1 Lecture Hour. 1 Credit Hour.

Offered at: MX

Physical Therapist Assistant 150 Therapeutic Procedures I

This course introduces assessment and measurement techniques and mobility training commonly performed by the physical therapist assistant. In this course, students will learn the applicable foundational knowledge and clinical skills to complete anthropometric, joint ROM, muscle length, muscle strength, sensory, and balance/coordination tests and measurements. Additionally, this course will build upon foundational coursework emphasizing the underlying clinical decision making skills and technical skills for functional patient mobility including assistive device fitting, bed mobility, transfer training, gait training, stair navigation, and wheelchair mobility. Upon completion, students should be able to safely, correctly, and effectively apply and document these techniques and procedures within the plan of care and scope of practice of the physical therapist assistant under the supervision of a physical therapist. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admittance into the Physical Therapy Assistant Program.

1 Lecture Hour. 6 Lab Hours. 3 Credit Hours.

Offered at: MX

Physical Therapist Assistant 160 Orthopedic Practice & Exercise

This course introduces commonly encountered orthopedic conditions in physical therapy and effective interventions for physical therapy management. As each joint of the human body is explored, emphasis is placed on foundational principles of tissue healing, pain management, and recovery of meaningful function for the patient. Using evidence based practice as a guide, clinical decision making skills stress progression and modification of interventions. Upon completion, students should be able to safely, correctly, and effectively apply and document tests, measurements, and interventions in clinical practice based on knowledge of orthopedic conditions as experienced by patients within in the plan of care and scope of practice of the physical therapist assistant (PTA) under the supervision of a physical therapist. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admittance into the Physical Therapy Assistant Program.

2 Lecture Hours. 6 Lab Hours. 4 Credit Hours.

Offered at: MX

Physical Therapist Assistant 170 Therapeutic Procedures II

This course covers the theory and application of therapeutic modalities used in physical therapy practice. Modalities covered in this course include: superficial thermal agents (therapeutic heat and cold), ultrasound and phonophoresis, diathermy, lasers, ultraviolet, electrotherapeutics for pain management, muscle contraction, drug delivery, and tissue repair, EMG/biofeedback, traction, massage, compression therapies, aquatics and hydrotherapy. Emphasis is placed on foundational principles and mechanics from physics, physiological effects, indications, contraindications, precautions, skilled application of the modality, clinical decision making, evidence-based practice, and documentation procedures Upon

completion, students should be able to safely, correctly, and effectively apply these techniques and procedures within the plan of care and scope of practice of the physical therapist assistant (PTA) under the supervision of a physical therapist. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Successful completion of previous semester Physical Therapist Assistant coursework with a Grade of C or better.

1 Lecture Hour. 6 Lab Hours. 3 Credit Hours.

Offered at: MX

Physical Therapist Assistant 171 Cardiopulmonary & Vascular Practice

This course introduces commonly encountered cardiopulmonary and vascular conditions in physical therapy. In this course, students will learn the applicable knowledge and clinical skills to complete tests and measurements related to a patient's cardiopulmonary and vascular status. Additionally, this course will further previous and foundational coursework emphasizing clinical decision making skills, proficiency with cardiopulmonary and vascular risk factor assessments, effective resistive and aerobic exercise progressions and modifications, response to emergent conditions, and wellness and prevention initiatives in the cardiopulmonary and vascular patient populations. Lymphatic and integumentary conditions, tests, measurements, and interventions are introduced as related to the cardiopulmonary and vascular systems. Upon completion, students should be able to safely, correctly, and effectively apply and document tests, measurements, and interventions in clinical practice based on knowledge of cardiopulmonary, vascular, and related lymphatic and integumentary conditions as experienced by patients within in the plan of care and scope of practice of the physical therapist assistant (PTA) under the supervision of a physical therapist. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Successful completion of previous semester Physical Therapist Assistant coursework with a Grade of C or better.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: MX

Physical Therapist Assistant 190 Therapeutic Procedures III

This course introduces treatment and measurement techniques and discusses treatment programs for neuromusculoskeletal dysfunction and injury. Topics include soft tissue and joint dysfunction; assessment of girth, volume, length, sensation, pain, and muscle strength; and selected exercise programs. Upon completion, students should be able to measure strength and joint motion and identify methods to assess sensation, pain, volume, girth, length, and gait abnormalities. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in PTA 110, 150, 160 and MAS 110, OR Consent of Department Chairperson.

1 Lecture Hour. 6 Lab Hours. 3 Credit Hours.

Offered at: MX

Physical Therapist Assistant 200 Pathophysiology & Complex Systems

This course introduces the remaining body systems and conditions encountered in physical therapy: integumentary, endocrine, immune, hematological, gastrointestinal, genitourinary, and metabolic. For each system and its related conditions, the student will explore etiology, pathology, manifestation, medical and physical therapy treatment, and prognosis. Realistic complex patient care and multi-system involvement is explored through an integration with orthopedic, cardiopulmonary, and neurologic conditions routinely treated by the physical therapist assistant as the patient progresses through the acute care, inpatient rehab and/or SNF, home care, and outpatient physical therapy settings. Upon completion, students should be able to safely, correctly, and effectively apply and document tests, measurements, and interventions in clinical practice related to conditions involving complex system interactions within in the plan of care and scope of practice of the physical therapist assistant (PTA) under the supervision of a physical therapist. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Successful completion of previous semester Physical Therapist Assistant coursework with a Grade of C or better.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: MX

Physical Therapist Assistant 201 Neuromuscular Rehabilitation

This course introduces commonly encountered adolescent and adult neurological conditions in physical therapy. In this course, students will learn the applicable foundational knowledge and clinical skills to complete assessment and measurements of sensation, cranial nerve and reflex integrity, cognitive functioning, hypo/hypertonicity, ROM, MMT, spasticity, coordination, and balance. Additionally, this course will further previous and foundational coursework emphasizing clinical decision making skills, proficiency with risk factor assessments, effective exercise progressions and modifications, response to emergent conditions, and wellness and prevention initiatives in neurological patient populations. Upon completion, students should be able to safely, correctly, and effectively apply and document tests, measurements, and interventions in clinical practice based on knowledge of neurological conditions as experienced by patients within the plan of care and scope of practice of the physical therapist assistant (PTA) under the supervision of a physical therapist. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Successful completion of previous semester Physical Therapist Assistant coursework with a Grade of C or better.

2 Lecture Hours. 3 Lab Hours. 3 Credit Hours.

Offered at: MX

Physical Therapist Assistant 211 PTA Clinical Education I

This full time clinical education experience (40 hours per week for 8 weeks) offers students the opportunity to gain exposure to a variety of medical and physical therapy diagnoses, develop patient care skills under the supervision of a clinical instructor (physical therapist assistant and/or physical therapist), and become an active participant in the health care team. Students will be placed in inpatient and outpatient physical therapy settings. Writing assignments, as appropriate to the discipline, are part of this course.

Prerequisite(s): Grade of C or better in PTA 110, 140, 150 and 160. Students must complete an online training tutorial on use of the Clinical Performance Instrument (CPI).

20 Lab Hours. 7 Credit Hours.

Offered at: MX

Physical Therapist Assistant 220 Physical Therapy Across the Lifespan

This course introduces foundations for human development and movement and explores developmental changes across the lifespan. At each developmental stage, this course expands upon physical, cognitive, emotional, psychosocial, and sociocultural changes experienced by individuals and how these differences impact effective physical therapy treatment. Commonly encountered conditions will be introduced along with effective interventions. Upon completion, students should be able to safely, correctly, and effectively apply and document tests, measurements, and interventions in clinical practice based on knowledge of patient conditions experienced across the lifespan within the plan of care and scope of practice of the physical therapist assistant (PTA) under the supervision of a physical therapist. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Successful completion of previous semester Physical Therapist Assistant coursework with a Grade of C or better.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: MX

Physical Therapist Assistant 221 PTA Clinical Education II

This course provides a short-term affiliation for planned learning experiences and practice under supervision. Emphasis is placed on basic skills including patient transfers, elementary exercise programs and other learned skills. Upon completion, students should be able to demonstrate satisfactory performance as an introductory-level physical therapy assistant student. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): First year completion of the Physical Therapy Assistant program with a minimum grade point average of 2.0, OR consent of Department Chairperson.

6 Lab Hours. 2 Credit Hours.

Offered at: MX

Physical Therapist Assistant 230 Therapeutic Procedures IV

This course covers normal development, adult and pediatric/CNS dysfunction, spinal cord injuries, amputee rehabilitation techniques, and cardiopulmonary rehabilitation. Topics include neurology review, selected rehabilitation techniques, ADL and functional training, prosthetic and orthotic training, and environmental access. Upon completion, students should be able to demonstrate safe and correct application of selected rehabilitation techniques for neurological dysfunction, cardiopulmonary conditions, and amputations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): First year completion of Physical Therapy Assistant program with a minimum grade point average of 2.0, OR consent of Department Chairperson.

3 Lecture Hours. 6 Lab Hours. 5 Credit Hours.

Offered at: MX

Physical Therapist Assistant 240 Health Promotion & Wellness II

This course builds upon content of Health Promotion and Wellness I expanding upon cultural competence, service learning in a broader context as part of the interprofessional team, and continuing professional development as students prepare for the National Physical Therapist Assistant Exam (NPTAE) and employment. The course will integrate classroom and clinical knowledge from throughout the course of study in the physical therapist assistant (PTA) program culminating in a health promotion and wellness initiative aimed at the improving upon the health of the immediate community. Upon completion, students as part of an interprofessional team should be able to complete a needs assessment and implement feasible initiatives aimed at promoting the health and wellness of a culturally diverse community. In addition, students will gain the knowledge and tools to successfully seek licensure and employment. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Successful completion of previous semester Physical Therapist Assistant coursework with a Grade of C or better.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: MX

Physical Therapist Assistant 260 Advanced PTA Clinical Education

This terminal full time clinical education experience (40 hours per week for 8 weeks) offers students the opportunity to gain exposure to a variety of medical and physical therapy diagnoses, develop entry-level patient care skills under the supervision of a clinical instructor (physical therapist assistant and/or physical therapist), and become an active participant in the health care team. Students will be placed in inpatient and outpatient physical therapy settings. Writing assignments, as appropriate to the discipline, are part of this course.

Prerequisite(s): Successful completion of ALL previous Physical Therapist Assistant coursework with a grade of C or higher. Students must complete an online training tutorial on use of the Clinical Performance Instrument (CPI).

20 Lab Hours. 7 Credit Hours.

Offered at: MX

Physical Therapist Assistant 280 Physical Therapy Assistant Topics

This course covers the physical therapist assistant profession in preparation for the state licensure exam. Topics include developing time management skills and practicing for the competence examinations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in PTA 260 AND Consent of Department Chairperson.

2 Lecture Hours. 2 Credit Hours.

Offered at: MX

PHYSICS (0077)**Physics 131
Mechanics And Power**

A limited number of principles are covered with emphasis placed on applications. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA MX TR

GE: Physical Sciences

**Physics 132
Electricity Heat And Light**

Continuation of Physics 131. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Physics 131, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA

**Physics 215
Statics**

Rigid bodies, fluid statics, friction, moments of inertia, centroids, and virtual work. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (Physics 235 and Math 208), or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA HW WR

IAI: EGR 942

**Physics 216
Dynamics**

Problems in kinematics, dynamics of a particle and a system of particles, dynamics of a rigid body, work, energy, small oscillations, and general plane motion. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (Physics 235 and Mathematics 208), or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA HW WR

IAI: EGR 943

**Physics 217
Mechanics Of Materials**

Study of elastic and inelastic relationships of external forces acting on deformable bodies. Includes stresses and deformations produced by tension and compression, torsion and bending, combined stresses, buckling, repeated loads, impact, and influence of properties of materials. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Physics 215, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA HW WR

IAI: EGR 945

**Physics 220
Physics Calculations & Practice**

Detailed practice in problems and application of theory for better understanding of physics; application of ideas of physics such as conservation laws, wave motion, invariance and trigonometry, analytic geometry, vector analysis, probability and statistics. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Concurrent enrollment in (Physics 221 or Physics 231), or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: KK HW

IAI: P1 900L GE: Physical Sciences

**Physics 221
Mechanics, Waves, and Heat**

Foundations and concepts in Physics, including elementary problems in mechanics wave motion and heat. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Math 141 or higher or concurrent enrollment in Math 141 or Math 143, and Eligibility for English 101 or Consent of Department Chairperson.

2 Lecture Hours. 6 Lab Hours. 5 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: P1 900L GE: Physical Sciences

**Physics 222
Electricity, Light and Modern Physics**

Continuation of Physics 221. Exploration of Electromagnetism, Light and Modern Physics using an algebra based approach. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (Physics 221, and Math 141 and Eligibility for English 101 or Consent of Department Chairperson.

2 Lecture Hours. 6 Lab Hours. 5 Credit Hours.

Offered at: DA KK MX OH TR HW WR

**Physics 224
Physics Calculations & Practice**

For students majoring in engineering or physical sciences. Detailed practice in problems and application of theory involving calculus to provide better understanding of physics. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Physics 235, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: KK HW

**Physics 231
General Physics I: Mechanics & Wave Motion**

Statics and dynamics of a particle and a rigid body; oscillatory and wave motion with application to sound. Primarily for liberal arts students and those in pre-medical curricula. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Concurrent enrollment in Physics 220 AND Grade of C or better OR concurrent enrollment in Math 141 OR Consent of Department Chairperson.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: DA KK

IAI: P1 900L GE: Physical Sciences

**Physics 232
General Physics II: Electricity & Magnetism**

Electrostatics, magneto statics, laws of DC and AC circuits, electromagnetic radiations and elementary electronics. Primarily for liberal arts students and those in pre-medical curricula. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (Physics 231, or Physics 235), or Consent of Department Chairperson.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: DA KK

Physics 233**General Physics III: Heat light & Modern Physics**

Introductory thermodynamics, geometrical and physical optics, atomic and nuclear radiations and associated elementary quantum aspects. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (Physics 231, or Physics 232), or Consent of Department Chairperson.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: DA

Physics 235**Engineering Physics I: Mechanics & Wave Motion**

Exploration of the laws of mechanics and wave motion using calculus to analyze practical and theoretical problems. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Math 207, OR concurrent enrollment in Math 207 and Eligibility for English 101 OR Consent of Department Chairperson.

2 Lecture Hours. 6 Lab Hours. 5 Credit Hours.

Offered at: DA KK OH TR HW WR

IAI: PHY 911 IAI: P2 900L GE: Physical Sciences

Physics 236**Engineering Physics II: Electricity & Magnetism**

Exploration of electricity and magnetism as they relate to fields, forces and energy using calculus to analyze theoretical and practical problems in lecture and laboratory. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Physics 235, and Math 207 and Eligibility for English 101 or Consent of Department Chairperson.

2 Lecture Hours. 6 Lab Hours. 5 Credit Hours.

Offered at: DA KK OH TR HW WR

IAI: PHY 912

Physics 237**Engineering Physics III: Heat light and Modern Physics**

Exploration of the laws of heat, light, and modern physics and analysis of practical and theoretical problems through the use of calculus. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Math 207 and Physics 235, and Eligibility for English 101 or Consent of Department Chairperson.

2 Lecture Hours. 6 Lab Hours. 5 Credit Hours.

Offered at: DA KK OH TR HW WR

IAI: PHY 913

Physics 295**Independent Research in Physics**

This course emphasizes independent, student-driven research under the close supervision of a faculty member. Eligibility for course repetition for additional credit hours is determined by the instructor. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Eligibility for course repetition for additional credit hours is determined by the instructor. No more than an accumulated 12 credit hours will be counted towards graduation.

Prerequisite(s): Eligibility for English 101 and Math 140 or higher OR Consent of Department Chairperson.

1 Lecture Hour. 6 Lab Hours. 1 - 6 Credit Hours.

Offered at: DA KK OH TR HW WR

Offered at: WR

HD Course

Polish 102**Second Course Polish**

Continuation of Polish 101. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Placement test, or Polish 101.

4 Lecture Hours. 4 Credit Hours.

Offered at: WR

HD Course

Polish 103**Third Course Polish**

Review and development of basic language skills, conducted in Polish. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): ACTFL Writing Proficiency Test (Score 3.00), or Placement test, or Polish 102.

4 Lecture Hours. 4 Credit Hours.

Offered at: WR

HD Course

Polish 104**Fourth Course Polish**

Review of language structure and interpretation of readings, conducted in Polish. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): ACTFL Writing Proficiency Test (Score 4.00), or Placement test, or Polish 103.

4 Lecture Hours. 4 Credit Hours.

Offered at: WR

IAI: H1 900 GE: Humanities HD Course

Polish 206**Intensive Oral Practice Polish**

Practice in spoken language, fluency and accuracy. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Placement test, or Polish 104.

4 Lecture Hours. 4 Credit Hours.

Offered at: WR

POLITICAL SCIENCE (0086)**Political Science 200****Principles of Political Science**

Basic principles of political science. History, theories, and various traditional and modern approaches to the study of political institutions and ideas. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA

IAI: S5 903 GE: Social & Behavioral Sciences

POLISH (0046)**Polish 101****First Course Polish**

Pronunciation and basic structures, speech patterns, reading, and writing skills. Writing assignments, as appropriate to the discipline, are part of the course.

4 Lecture Hours. 4 Credit Hours.

Political Science 201 The National Government

Development, organization, and functioning of the American national government; origin, growth, and interpretation of the Constitution; and legislative, executive, and judicial processes; administrative development, controls, organization and activities. Successful completion of this course may be used to fulfill the graduation requirement to pass the United States Constitution examination. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: S5 900 GE: Social & Behavioral Sciences

Political Science 202 Urban Government & Politics

Development, forms, functions, powers and problems of urban government in the United States. Emphasis on metropolitan areas, such as Chicago, and intergovernmental relations; examination of local politics and pressure group activity, administrative organization and fiscal responsibilities. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK

GE: Social & Behavioral Sciences

Political Science 203 Comparative Government

Principles of comparative study of political systems; political culture, governmental structures and institutions, political parties, groups, and ideology; understanding of political systems other than American. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK WR

IAI: S5 905 GE: Social & Behavioral Sciences

Political Science 204 International Relations

Study of international relations, analysis of international behavior; role of nation-state and international organizations; factors underlying the development, character and, application of foreign policy; war and peace; major social and political forces at work in the contemporary world system. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK TR HW WR

IAI: S5 904 GE: Social & Behavioral Sciences HD Course

Political Science 205 Public Administration

Introduction to principles of public administration including the role of administration in modern government and administrative responsibility; organization, personnel management, fiscal operations, budgeting, purchasing, and planning. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK

GE: Social & Behavioral Sciences

Political Science 206 American Foreign Policy

Examination of conduct and control of American foreign policy in today's complex world; analysis of development of American traditions in foreign policy, machinery which exists for conduct of American foreign relations, factors influencing foreign policy of the United States, and policies and problems relating to countries and regions of the world. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK HW

GE: Social & Behavioral Sciences HD Course

Political Science 207 U.S. State & Local Government

Study of state and local political jurisdictions and systems, including their powers, organization, functions, development and contemporary problems. This course will examine the American federal system with special emphasis directed to the governmental structures and public policies of Illinois. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK HW

IAI: S5 902 GE: Social & Behavioral Sciences

Political Science 211 Analysis Of White Racism

Nature of white racism: political, economic, social, psychological effects on blacks and whites. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: OH

GE: Social & Behavioral Sciences HD Course

Political Science 215 Politics Of Community Organization

Analysis of voting trends; discussion with community spokesmen and politicians; class participation in community politics such as voter registration and political education; how Chicago is governed; role of Republican and Democratic parties and independents. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

GE: Social & Behavioral Sciences

PROCESS TECHNOLOGY (0340)

Process Technology 116 Process Instrumentation I

This course provides an introduction to the instrumentation used in process industries. Student will develop knowledge of instruments and instrument systems used to monitor and control variables in production processes, especially in the petrochemical industry. Terminology, process variables, symbology, control loops and basic troubleshooting will be covered. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 340PRTE 124, AND Eligibility for MATH 098, OR Consent of Department Chairperson.

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: DA

Process Technology 117 Process Instrumentation II

This course is to provide an overview into the field of instrumentation as it relates to operations within the process industries. In this course, students draw upon their knowledge of equipment, systems and instrumentation, to understand the operation of the entire unit. Students study concepts related to commissioning, normal startup, normal operations, normal shutdown, turnarounds and abnormal situations as well as the Process technician's role in performing the task associated with these concepts within an operating unit. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 340PRTE 116

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: DA

Process Technology 118 Process Technology Equipment

This course provides an overview and introduction into some of the equipment and vessels, and their operations, within the Process Industry. Students will be introduced to process industry equipment fundamentals, such as purpose, terminology, components, operation, and Process Technician's role for operating and troubleshooting the equipment. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 340PRTE 116 AND 124.

4 Lecture Hours. 4 Lab Hours. 6 Credit Hours.

Offered at: DA

Process Technology 124 Introduction to Process Technology

This course provides an introduction to the field of process industry operations and an overview of the roles and responsibilities of process technicians, the environment in which they work, and the equipment and systems that they operate. Students will be introduced to several process industry equipment concepts including purpose, components, and operation. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 096 OR Consent of Department Chairperson.

4 Lecture Hours. 4 Credit Hours.

Offered at: DA

Process Technology 125 Safety, Health and Environment

Students are introduced to various types of plant hazards, safety and environmental systems and equipment, and to the regulations that underscore process industries. This course will also explore the safety and health hazards of specific hazardous materials, safety data sheets (SDS), labeling and placarding systems, and emergency operations. Regulations and standards from Occupational Safety and Health Administration (OSHA), National Fire Protection Association (NFPA) and Department of Transportation (DOT) will be utilized as primary sources of current hazardous material management. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 340PRTE 124.

6 Lecture Hours. 6 Credit Hours.

Offered at: DA

Process Technology 202 Quality Control

Introduces many process industry-related quality concepts including operating consistency, continuous improvement, plant economics, team skills, and statistical process control (SPC). Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 340PRTE 118.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA

Process Technology 203 Unit Systems

Introduces the concept of system and plant economics; studies the interrelation of process systems by arranging process equipment into basic systems; explain how factors affecting process systems are controlled under normal conditions; and recognizes abnormal process conditions. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 340PRTE 125.

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: DA

Process Technology 204 Operations

Students are Introduced to the operation of process manufacturing including material handling of bulk liquids and solids, and the physics of process technology. The special problems of unit shutdown and startup of chemical plants and refineries is explained as both a business and an environmental problem. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 340PRTE 124 AND 203.

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: DA

Process Technology 205 Process Troubleshooting

This course integrates the application of process control with the use of computer-simulated exercises. The use of process control simulations challenges the student to exercise logical troubleshooting techniques to solve operational problems. The course utilizes "what if drills" to enhance troubleshooting skills. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 340PRTE 118 AND 203, AND Grade of C or better -OR- Concurrent enrollment in CIS 120.

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: DA

Process Technology 206 Process Technology Internship

Participating students work in their area of study under the supervision of college personnel and the participating employer. Internship objectives are developed by the student and his/her faculty adviser, with approval of the participating employer, to provide an appropriate and meaningful work-based learning experience. Writing assignments, as appropriate to the discipline, are part of the course.

15 Lab Hours. 3 Credit Hours.

Offered at: DA

PSYCHIATRIC REHABILITATION (0134)**Psychiatric Rehabilitation 101**
Survey Of Psychiatric Rehabilitation

This course is the first in the series for the Psychiatric Rehabilitation certificate. Courses in the series focus on a rehabilitative approach to servicing individuals with severe mental illness. This approach is based on the premise that consumers set the goals for the rehabilitation team. The survey course has four major themes: understanding psychiatric disability and current approaches to treatment, the mental health system and surrounding legal issues, psychiatric rehabilitation through vocational and skills training, and family and community support systems. The orientation of the course is more practical than theoretical and there is considerable opportunity to observe and practice relevant skill. Consumers serve as guest speakers to highlight issues of empowerment and stigma and to increase understanding of consumer experiences with the mental health system. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Psychiatric Rehabilitation 102
Psychiatric Rehabilitation Skills

This course is the second in the series for the Psychiatric Rehabilitation Certificate. The orientation of the course is more practical than theoretical, and there is considerable opportunity to observe and practice relevant skills. Students learn basic techniques for conducting interviews for use in assessment, treatment planning, and therapeutic interactions with consumers. Students learn to conduct skills training groups and apply behavioral techniques for implementing programs that promote desired skills. Techniques for intervening in crisis situations and preventing and managing aggression are presented. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Course may be repeated up to three times and may count for a maximum of six credit hours. Consent of Department Chairperson required for repeatability.

Prerequisite(s): Grade of C or better in Psychiatric Rehabilitation 101.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX WR

Psychiatric Rehabilitation 103
Health Skills Psychiatric Rehab

This course examines three-dimensions of wellness: physical, emotional and environmental. Students will learn the fundamentals of physical wellness, including diet, nutrition, exercise, sanitation, disease prevention and control, and special health considerations for persons with severe mental illness. The emotional dimension of wellness includes social support, physical and sensory accommodations, and geriatric and developmental disabilities. Students will learn the essentials of environmental safety, including use of safety equipment and proper body mechanics. Students will develop and practice skills for determining vital signs and documenting their observations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Psychiatric Rehabilitation 101

3 Lecture Hours. 3 Credit Hours.

Offered at: MX WR

Psychiatric Rehabilitation 104
Vocational & Common Living Skills

This course emphasizes the practical applications of vocational and community living skills development for individuals with severe mental illness. Students will observe and practice the fundamentals of vocational rehabilitation, including the duties and tasks commonly required in vocational settings and the development of employment sites. Practical application of current policies affecting employment sites is presented. Networking skills, common state and federal benefit programs and community-based service provision are presented. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Psychiatric Rehabilitation 101.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX WR

Psychiatric Rehabilitation 105**PRCP Internship**

This internship requires a minimum of 240 clock hours of field experience by the student. Experiences are a combination of observation and participation/interaction with consumers of mental health services. The first half (or a minimum of 38 hours) will include five of the following areas: 1) inpatient milieu and general activities; 2) case management activities; 3) vocational training activities; 4) skills training activities; and 5) consumer led activities. The second half of the internship (a minimum of 38 hours) includes interviewing skills and leading skills training groups, and at least one of the following: behavior definition and task analysis, aggression management, assessment and treatment planning, or crisis intervention. All experiences should focus on a rehabilitative approach to serving individuals with severe mental illness. Group or individual supervision with on-site clinical staff and/or supervision by field placement director is also required. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Successful completion of (PS REHB 101, PS REHB 102, PS REHB 103, AND PS REHB 104).

15 Lab Hours. 3 Credit Hours.

Offered at: MX WR

PSYCHOLOGY (0087)**Psychology 201**
General Psychology

Historical survey of psychology and a study of the sensory and perceptual processes: learning, thinking, remembering, emotional behavior, motivation, mechanism of adjustment, and the total personality. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: S6 900 GE: Social & Behavioral Sciences

Psychology 203
The Psychology of Women

An application of the general principals of psychological scholarship and research to the subject of gender and women. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

GE: Social & Behavioral Sciences

Psychology 205
Applied Psychology

Applications of principles of psychology in industry, business, the professions, social welfare, and personal adjustment; career selection, industrial efficiency, advertising, sales, the arts; and detection and treatment of delinquents and criminals. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA

GE: Social & Behavioral Sciences

Psychology 206**Business & Industrial Psychology**

Psychological principles and techniques applied to activities and problems in business and industry; selling, advertising, market research, personnel work, employee selection and training, supervision, and morale. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Psychology 201 or consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX TR HW WR

GE: Social & Behavioral Sciences

Psychology 207**Child Psychology**

Development, adjustment, and psychological problems of the child from birth through adolescence; relationship of scientific psychological findings to practical methods of child guidance and training by parents, teachers, and others. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Psychology 201 or consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: S6 903 **GE:** Social & Behavioral Sciences

Psychology 208**Psychology of Exceptional Children**

Considers children who do not respond to usual classroom teaching procedures. Includes problems of identification, diagnosis and potential assessment; surveys appropriate instruction and remedial teaching of mentally retarded, physically handicapped, gifted, culturally deprived and maladjusted children. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Psychology 207 or consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

GE: Social & Behavioral Sciences

Psychology 209**Black Psychology**

Relationship of psychology to colonized situation; understanding colonial experience in psychological terms, emphasis on effects for black and white persons in America of status of blacks during and after legalized slavery. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH

GE: Social & Behavioral Sciences **HD Course**

Psychology 210**Principles of Supervisory Psychology**

Psychological principles applied to problems with employees, both from the standpoint of management and of employees. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Psychology 201 or consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK HW

Psychology 211**Social Psychology**

Analyzes development of personality structures and patterns: cultural environment, social roles and status, attitude formation, personality types and measurement of

personality. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Psychology 201 or consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK OH TR HW WR

IAI: S8 900 **GE:** Social & Behavioral Sciences **HD Course**

Psychology 213**Abnormal Psychology**

Abnormal behavior and its social significance; symptoms and dynamics of psychological disorders; neuroses and psychosomatic reactions, sociopathic psychoses; consideration of therapies and theories of prevention. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Psychology 201 or consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: PSY 905

Psychology 214**Adolescent Psychology**

Continuation of Psychology 207. Physical, intellectual, educational, personality, and social development of adolescents in contemporary society; emphasis on problems of the adolescents adjustment to personal and social environment. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Psychology 207 or consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK WR

IAI: S6 904 **GE:** Social & Behavioral Sciences

Psychology 215**Psychology Of Personality**

Major personality theories to familiarize the student with systems concerned with comprehensively and dynamically interrelating developmental, motivational, and adaptive aspects of behavior; methods of personality assessment and experimental evidence relevant to the theories will also be considered. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Psychology 201 or consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK TR HW WR

Psychology 222**Adult Development And Aging**

Introduction to psychological problems, issues, facts, and theories relating to later adulthood and old age; societal values and institutions, socio-economic variables, biological and psychological changes, perception, cognition, psychosocial development, personality factors, sexuality and relationships, work and skill issues, adjustment and coping, psychopathology, and therapeutic intervention. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Psychology 201 or consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK TR WR

IAI: S6 905 Adulthood/Aging **GE:** Social & Behavioral Sciences

Psychology 223**Death, Dying & Bereavement**

This course will introduce students to psychological problems, issues, facts, theories, opinions, and controversies pertaining to death or loss, the dying process, and bereavement as a response to loss. It will deal with societal values, institutions, psychological variables, the nature of dying and bereavement, the effects of loss on the surviving individual, adjustment and coping problems, relevant behavioral and emotional reactions, and alternatives to societal institutions surrounding death. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Psychology 201 or consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Psychology 224**Life Span Developmental Psychology**

Life Span Development Psychology is an introductory course in developmental psychology covering fundamental biological, cognitive, and psychological factors as they apply to the whole span of development. Theories, research design and findings, facts, and principles, as they apply to each age level, will be examined.

Prerequisite(s): Grade of C or better in Psychology 201 or consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: TR HW WR

IAI: S6 902 GE: Social & Behavioral Sciences

Psychology 240**Research and Statistical Methods in the Behavioral Sciences**

Study of methods used in the systematic study of psychology, including psychometric concepts, understanding and application of statistical operations (computer-based), and critique of scholarly empirical reports. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Psychology 201 or consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK TR

Psychology 299**Special Topics in Psychology**

Special topics in Psychology will be discussed along with appropriate lab and/or field trip activities. New developments in the field will be emphasized. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Course may be repeated up to three times when topics are different, and may count for a maximum of six variable credits. Consent of Department Chairperson required for repeatability.

Prerequisite(s): Grade of C or better in Psychology 201 or consent of Department Chairperson.

6 Lecture Hours. 6 Credit Hours.

Offered at: DA KK HW

RADIOGRAPHY (0021)**Radiography 101****Intro To Radiation Sciences**

Fundamental concepts of medical imaging and the radiation sciences; includes origins of the profession, common terminology and chemicals; technical factors influencing development of the radiograph and technical factors which produce the image. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission into the Radiography program/plan 246.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: MX WR

Radiography 102**Attitudes In Patient Care**

Skills needed for proper patient care; includes physical and psychological skills necessary to cope with various situations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission into the Radiography program/plan 246.

2 Lecture Hours. 2 Credit Hours.

Offered at: MX WR

Radiography 105**Imaging Physics**

Structure of matter, electric circuitry, especially the x-ray circuit, interactions between ionizing radiation and matter and principles necessary for production of radiographic image. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in RADIOGR 101.

4 Lecture Hours. 4 Credit Hours.

Offered at: MX WR

Radiography 115**Basic Prins Of Image Produc**

Analysis of various technical factors and accessories which affect radiographic image; includes basic qualitative factors of image production, and laboratory experiments. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission into the Radiologic Program

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: MX WR

Radiography 124**Intro To Patient Care**

Proper positioning and basic nursing procedures necessary for patient care; includes proper placement and manipulation of patient and equipment. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission into the Radiography program/plan 246.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: MX WR

Radiography 128**Image Evaluation**

Analysis of image and quality of radiographs images submitted for interpretation; covers patients size, cooperation and pathological condition relative to and influencing accuracy and quality of resultant image. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in RADIOGR 101.

1 Lecture Hour. 1 Credit Hour.

Offered at: MX WR

Radiography 131**Radiographic Procedures I**

Proper positioning of patient for demonstration of suspect pathology of abdomen and its contents, correlated with course in anatomy and physiology, and routine and contrast media procedures. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in RADIOGR 101.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: MX WR

Radiography 140**Intro To Clinical Education**

Physical and technical skills needed to apply ionizing radiation to human beings; clinical orientation and assessment to determine professional preparedness. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in RADIOGR 101.

1 Lecture Hour. 20 Lab Hours. 3 Credit Hours.

Offered at: MX WR

Radiography 141 Radiography Clinical Education I

Orientation and initial skills development in basic radiographic procedures; visualization of abdomen and its contents stressed to prepare student for further study in major area of specialization; includes communication, operation of equipment, patient care and technical skills development. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in RADIOGR 101.

1 Lecture Hour. 20 Lab Hours. 3 Credit Hours.

Offered at: MX WR

Radiography 200 Pathology

Covers disease process with radiographic manifestations; laboratory sessions include use of radiographs and images from other modalities to visualize various types of pathologic conditions. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in RADIOGR 101.

4 Lecture Hours. 4 Credit Hours.

Offered at: MX WR

Radiography 202 Radiology Management

Administration, purchasing and personnel control; practical experience in department administration. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in RADIOGR 101.

1 Lecture Hour. 1 Credit Hour.

Offered at: MX WR

Radiography 205 Applied Radiographic Techniques

Practical applications of previously learned concepts; effects of technical factor selection, use of accessories and changes in patient type and condition. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in RADIOGR 101.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: MX WR

Radiography 206 Imaging

The components of radiological imaging system chains; imaging systems will be explored, including current systems and new and emerging modalities. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in RADIOGR 101.

2 Lecture Hours. 2 Credit Hours.

Offered at: MX WR

Radiography 208 Radiobiology

Effects of radiation on cells, organs, and organisms and implications on present and future populations, use of ionizing radiation in internal and external treatment of benign and malignant disease. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in RADIOGR 101.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: MX WR

Radiography 232 Radiographic Procedures II

Positioning and patient-care skills applied to additional body systems and correlated with clinical study; proper positioning of patient for demonstration of suspect pathology correlated with previous procedures; includes skeletal and urinary

systems. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in RADIOGR 101.

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: MX WR

Radiography 233 Radiographic Procedures III

Study of additional body systems; includes procedures less frequently performed and those requiring special skills or equipment; procedures covered will not normally require invasive techniques. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in RADIOGR 101.

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: MX WR

Radiography 234 Special Radiographic Procedure

Procedures frequently performed in modern department but which employ surgical or other invasive techniques and injection of contrast media into circulatory system; covers emergency procedures and pertinent aspects of some pharmaceuticals. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in RADIOGR 101.

2 Lecture Hours. 2 Credit Hours.

Offered at: MX WR

Radiography 242 Radiography Clinical Ed II

Application of concepts learned in related radiography classes; emphasis on progression from role of observer to assistant, then to relative independence under supervision of qualified clinical instructors, radiographers and faculty. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in RADIOGR 101.

1 Lecture Hour. 30 Lab Hours. 4 Credit Hours.

Offered at: MX WR

Radiography 243 Radiography Clinical Education III

Progression from role of assistant to greater independence under supervision of qualified clinical instructors. Quality and related aspects of special consent will be covered. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in RADIOGR 101.

1 Lecture Hour. 30 Lab Hours. 4 Credit Hours.

Offered at: MX WR

Radiography 244 Radiography Clinical Education IV

Progression of student to full clinical independence, upon demonstrating clinical competency. Student can refine skills through independent practice. Includes field experiences in elective specialization. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in RADIOGR 101.

1 Lecture Hour. 30 Lab Hours. 4 Credit Hours.

Offered at: MX WR

READING (0037)**Reading 99****Developmental Reading Skills I**

Provides skills necessary for efficient reading of textbooks and other materials. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for Reading 099 by COMPASS Reading (50-64), or Consent of Department Chairperson.

1 - 3 Lecture Hours. 1 - 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Reading 125**Developmental Reading Skills II**

For students who need to improve their reading skills; efficient reading of textbooks and other materials including work in mechanics of reading, vocabulary development, comprehension, and rate of reading. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Reading 99, COMPASS Reading (65-79), or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

Reading 126**Structural Analysis & Critical Reading**

Ability to read and to analyze college level materials. For students with advanced reading skills. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Reading 125, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

RESPIRATORY THERAPY (0061)**Respiratory Therapy 114****Basic Respiratory Care**

Theoretical and protocol based applications of, indications for, and assessment of efficacy and patient response to basic respiratory care modalities in the cardiopulmonary compromised patient population. Includes such therapeutic modalities as: O₂/gas therapy, aerosol and humidity therapy, bronchial hygiene, and hyperinflation therapy. Clinical simulations, tutorials, and writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Chemistry 121; Mathematics 118, English 101; Biology 116 and 120.

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: MX

Respiratory Therapy 115**Cardiopulmonary/Renal Anatomy & Physiology**

Study of cardiac, pulmonary and renal structure and function with emphasis on physiology as applied to the practice of respiratory care. This includes the integrated functions of ventilation, respiration, gas transport and acid base regulation. Clinical simulations, tutorials, and Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Acceptance into the RESP TC program.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Respiratory Therapy 116**Patient Assessment**

Introduction to the role of a respiratory therapist in the hospital setting as a member of a health care team. Includes professional behavior, ethics, legalities, communications, medical terminology, medical charts and cardiopulmonary assessment. Clinical simulations, tutorials, and Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Chemistry 121; Mathematics 118, English 101; Biology 116 and 120.

2 Lecture Hours. 2 Credit Hours.

Offered at: MX

Respiratory Therapy 117**Respiratory Pharmacology**

Anatomy and physiology of the nervous system as applied to the pharmacodynamics of bronchodilation and the effects various drugs have on the cardiovascular and pulmonary systems is emphasized. Indications, dosages, routes of administration, contraindications, adverse effects and dose calculations will be discussed. Clinical simulation, tutorials, and Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Chemistry 121; Mathematics 118, English 101; Biology 116 and 120.

1 Lecture Hour. 1 Credit Hour.

Offered at: MX

Respiratory Therapy 118**Respiratory-Microbiology**

Applied microbiology and infection control practices as related to the hospital environment and respiratory care modalities and equipment. OSHA, JCAHO infection control practices including screening tests and risk factors as well as understanding of all hospital isolation techniques is presented. Clinical simulations, tutorials, and writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Chemistry 121; Mathematics 118, English 101; Biology 116 and 120.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: MX

Respiratory Therapy 119**Respiratory Care Lab I**

Introduction to basic equipment: design, function, troubleshooting and care of respiratory therapy devices and circuitry used to deliver therapy, humidity and aerosol therapy, bronchial hygiene, hyperinflation modalities. Professionalism, communication techniques, monitoring will be practiced in conjunction with laboratory simulated hospital procedures and situations. Basic CPR certification and all proficiency testing of clinical procedures will be done. Clinical simulations, tutorials, and writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Chemistry 121; Mathematics 118, English 101; Biology 116 and 120.

6 Lab Hours. 3 Credit Hours.

Offered at: MX

Respiratory Therapy 127**Clinical Practice I**

Introduction to the hospital setting and the set-up, maintenance and discontinuation of oxygen; aerosol and humidity therapy; intermittent modalities to include bronchial hygiene and hyperinflation therapies. Clinical simulations, tutorials and Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Respiratory Care 114, 116, 117, 118, 119 or Consent of Department Chairperson.

12 Lab Hours. 3 Credit Hours.

Offered at: MX

Respiratory Therapy 129**Clinical Practice II**

Supervised clinical course with an introduction to airway management techniques, basic ventilator care techniques, pediatric respiratory care and refinement of floor therapy skills with acute patients. Clinical simulations, tutorials and writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Respiratory Care 115, 127, 137, 139, 141 or Consent of Department Chairperson.

12 Lab Hours. 3 Credit Hours.

Offered at: MX

Respiratory Therapy 137 Advanced Pathology & Clinical Application

Acute and chronic respiratory and cardiac pathological processes and their associated renal complications and compensations: diagnostic testing including arterial blood gasses, basic radiographic interpretation, pulmonary function studies, interpretation of laboratory studies, treatment and prevention of disease processes. Clinical simulations, tutorials, and writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Respiratory Care 114, 116, 117, 118, 119 or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: MX

Respiratory Therapy 139 Respiratory Care Lab II

Introduction to hospital specific policies and procedures, continuation of application and practice of respiratory care modalities, now applied to the critically ill patient. Emphasis on airway management, mechanical ventilators, circuitry, mechanical ventilation management and techniques. Comprehensive laboratory competency testing. Clinical cases presented as technical management corollaries. Clinical simulations, tutorials, and Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Respiratory Care 114, 116, 117, 118, 119 or Consent of Department Chairperson

4 Lab Hours. 2 Credit Hours.

Offered at: MX

Respiratory Therapy 141 Ventilatory-Mechanics I

Theory of basic mechanical ventilator function, methods of ventilation, modes, classification of ventilators, demonstration of basic equipment and circuitry. Airway management indications, selection of type, intubation, management assessment, hazards, extubation and troubleshooting the artificial airway will be covered. Clinical simulations, tutorials, and writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Respiratory Care 114, 116, 117, 118, 119 or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: MX

Respiratory Therapy 146 Ventilatory Mechanics II

Introduction to the theory of mechanical ventilation in the adult patient. Selection of ventilator parameters, commitment, maintenance, weaning. In-depth presentation, discussion, demonstration of specific adult ventilator systems, CPAP, BiPAP circuits, practice and testing. Clinical simulations, tutorials, and Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Respiratory Care 115, 127, 137, 139, 141 or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: MX

Respiratory Therapy 200 Respiratory Care Lab III

In depth presentation, discussion, demonstration of specific pediatric/neonatal ventilator systems, CPAP circuits, practice and testing. Continuation of adult ventilator practice, practice and integration of other critical care procedures. Clinical simulations, tutorials, and Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Respiratory Care 129 and 146, or Consent of Department Chairperson.

4 Lab Hours. 2 Credit Hours.

Offered at: MX

Respiratory Therapy 222 Clinical Practice III

Supervised clinical course providing advanced airway management skills, advanced ventilator techniques and diagnostic procedures in the hospital setting. Clinical simulations, tutorials, and writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Respiratory Care 129 and 146 or Consent of Department Chairperson.

12 Lab Hours. 3 Credit Hours.

Offered at: MX

Respiratory Therapy 224 Clinical Practice IV

Supervised clinical course providing advanced airway management skills, advanced adult ventilatory techniques, neonatal respiratory procedures and advanced cardiopulmonary diagnostic procedures. Exposure to alternate sites of care. Clinical simulations, tutorials, and writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Respiratory Care 200, 222, 225, 227, or Consent of Department Chairperson.

24 Lab Hours. 4 Credit Hours.

Offered at: MX

Respiratory Therapy 225 Age Specific Care

Introduction to age appropriate considerations of patient education, application of therapeutic modalities and manifestations of cardiopulmonary diseases throughout the human life span. This course will also address managed care, management, patient care plans and alternate sites of care. Clinical simulations, tutorials, and writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Respiratory Care 129 and 146, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: MX

Respiratory Therapy 227 Critical Care Services

Advanced cardiopulmonary monitoring is presented with emphasis on ECG interpretation and hemodynamic and exhaled gas monitoring and therapeutic interventions. Chest radiograph, CT and MRI interpretation will be introduced. Pharmacological agents that affect the cardiopulmonary, renal, and acid base regulating systems; paralyzing agents, analgesics, sedatives, administration safety, dose ranges, monitoring response to and basic fluid and electrolyte balance will be presented. Clinical simulations, tutorials, and Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Respiratory Care 129, 146, or Consent of Department Chairperson.

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: MX

Respiratory Therapy 230 Advanced Cardiopulmonary Monitoring

Case studies with PFTs, blood gases, hemodynamic profiles, ECGs and related diagnostic testing will be presented along with related pathophysiological changes of cardiopulmonary diseases. Advanced adult, pediatric, neonatal cardiopulmonary life support will be covered. Clinical simulations, tutorials, and Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Respiratory Care 200, 222, 225, 227, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: MX

Respiratory Therapy 250 Cardiopulmonary Rehabilitation Home Care

Care of patients with chronic cardiopulmonary disease in a sub-acute setting and in their homes. Long term therapeutic prescriptions, equipment selection, cleaning and asepsis of equipment in the non-acute care setting. Pulmonary rehabilitation goals and programs presented along with adjunct exercises, equipment and assistive devices. Clinical simulations, tutorials, and Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Respiratory Care 200, 222, 225, 227, or Consent of Department Chairperson.

1 Lecture Hour. 1 Credit Hour.

Offered at: MX

Respiratory Therapy 260 Advanced Specialty Topics

Respiratory care research topics presented, ethics and board examination preparation, computer-assisted clinical simulations along with branching logic, latent image practice and mock certification and registry examination preparation and practice. Resume, portfolio and job interview preparation will also be included. Clinical simulations, tutorials, and writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Respiratory Care 200, 222, 225, 227, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

SHORT TERM HEALTH (0500)

Short Term Health 104 Fund Medical Bill/Code

Completing this course is the first step for you to get employment as inpatient coder, outpatient coder, medical collector, medical records coder, medical record analyst, medical record secretary, medical office secretary, claim specialist, medical insurance biller/coder and other positions that are in demand in the medical service management. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Credit Hours.

Offered at: TR

Short Term Health 105 Adv Medi Bill/Code

This course is needed to equip you with the knowledge and skills to get jobs in the field of Medical Billing and Coding. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Credit Hours.

Offered at: TR

Short Term Health 153 Medical Terminology

Basic medical vocabulary for allied health professionals and others with a minimal background in anatomy and physiology; includes study of the human body systems. Student will learn terminology for common pathologies (diseases) and diagnostic tests, with a focus on proper pronunciation, usage and spelling. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Credit Hours.

Offered at: TR

Short Term Health 158 EKG Technician

Students will learn the skills needed to become an EKG/cardiovascular technician in this comprehensive course. Students will learn the anatomy and physiology of the heart, medical disease processes, medical terminology, medical ethics, and legal aspects of patient contacts. Students will also be introduced to the associated areas of laboratory assisting, and electrocardiography. The hands-on practice the students receive will help in preparing for the national exam administered through (NCCT)

National Center for Competency Training. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Credit Hours.

Offered at: MX

Short Term Health 170 Introduction to Computers in Healthcare

This course will focus on effective modeling and analysis of complicated healthcare related processes through the use of computer usage and simulation techniques. Students will learn the day to day usage of the computer in the healthcare setting and will also develop skills to evaluate alternative courses of actions for purposes of improving the efficiency of the healthcare system. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 1 Credit Hour.

Offered at: TR

Short Term Health 624 BNA Fundamentals/Clinical

This course is part of the curriculum designed to prepare individuals to work in the healthcare industry as Certified Nursing Assistants (CNAs). The student is introduced to the discipline of nursing and the basic approaches of patient care. The concepts of caring for the whole person, nursing practice, multi-cultural society, and communication are addressed as students assist the licensed nurse and other members of the healthcare team to the clinical settings. Writing assignments, and testing of knowledge as appropriate to the discipline, are part of this course. Clinical laboratory sessions include pre-conference and post-conference at area clinical facilities. Theoretical concepts and clinical skills contained with the course are consistent with basic nursing assistant skills and standards developed by the Illinois Department of Health.

Prerequisite(s): Eligibility for English 096 and Math 098 or consent of Department Chairperson.

6 Lecture Hours. 4 Lab Hours. 8 Credit Hours.

Offered at: MX

SHORT TERM TRD/INDSTRL/TRNSPRT (0504)

Short Term Trd/Indstrl/Trnsprt 104 Dev. Your Family Child Care Business

Developing Your Family Child Care Business is a facilitated interactive business development program to help individuals launch or grow successful family child care businesses. This twelve-session program includes: Identify market advantages/disadvantages related to the business location; develop promotional strategies; begin the process of pricing services and understanding finances and setting policies for the child care center. Writing assignments, as appropriate to the discipline, are part of the course.

1.5 Lecture Hours. 1.5 Credit Hours.

Offered at: DA

Short Term Trd/Indstrl/Trnsprt 106 Road Driving

Designed for individuals with little or no commercial truck driving experience, this course provides theoretical foundation to become a commercial driver. Students will learn the regulations that governs each classification and why commercial vehicles are identified by classifications. Through this course, students will be eligible to obtain their commercial driver's license. Upon successful completion, students will receive a certificate of completion and a Class "A" Commercial drivers license. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in STTRDE 148 and 337, AND earned their Commercial License Permit (CLP). Must be 18 years of age or older, possess a valid driver's license, a good driving record, and pass both a physical exam and an alcohol/drug te

4 Lab Hours. 2 Credit Hours.

Offered at: OH

Short Term Trd/Indstrl/Trnsprt 113 Limo/Res Chauffeur Trng

This course is a ONE DAY CLASS that must be successfully completed before applying to the City of Chicago to take the restricted chauffeur's license examination. This examination is required before anyone can drive a livery or medical carrier in Chicago. This workshop covers the rules and regulations governing chauffeurs and the geography and important locations in the city. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 1 Credit Hour.

Offered at: OH

Short Term Trd/Indstrl/Trnsprt 114 Defen Driv/Attitudinal Remd

This course is designed for licensed chauffeurs who have a record of rule and regulations violations and newly licensed chauffeurs who have not been driving in the U.S. for at least three years. This one day course has been deemed mandatory by the Chicago Department of Business Affairs and Customer Protection. The topics would include a review of violated rules and regulations, cultural sensitivity training, anger management, and conflict resolution training, and behavior modification approach to effective customer service. The student would end with a sense of how his earnings can be seriously affected by not being knowledgeable, courteous and safe driver. This course also reviews the Illinois Rules of the Road handbook and prepares the inexperienced chauffeur driver for the road. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 1 Credit Hour.

Offered at: OH

Short Term Trd/Indstrl/Trnsprt 116 Class B-Passenger Endorsement

The purpose of this course is to provide students with the necessary training required to safely transport passengers in commercial in motor vehicles. Students receive training in pre-trip and post-trip inspection, loading and unloading, use of brake-door interlocks, passenger transportation and prohibited practices. Upon completion of this course students will receive a certificate of completion and a Passenger Endorsement on their Commercial Drivers License.

0.5 Lecture Hours. 1 Lab Hour. 1 Credit Hour.

Offered at: OH

Short Term Trd/Indstrl/Trnsprt 117 Class B-School Bus Endorsement

The purpose of this course is to provide students with the necessary training required to become safe school bus drivers. Training will include pre-trip and post-trip inspection, loading and unloading, transporting students with special needs, proper securement of child safety seats, evacuation, railroad crossings and school bus operations. Upon completion of this course, students will receive a certificate of completion and a School Bus and Passenger Endorsement on their Commercial Drivers License.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: OH

Short Term Trd/Indstrl/Trnsprt 118 Forklift Operator

The Forklift Operator course prepares students for the workplace. Upon completion of this course, students will have a working knowledge of the basic need and use of the lift truck. Students will also be able to safely inspect and operate the lift truck. This course includes theory and practical training.

1.5 Lecture Hours. 1 Lab Hour. 2 Credit Hours.

Offered at: OH

Short Term Trd/Indstrl/Trnsprt 119 Unarmed Security Guard

Intensive instruction in the technical aspects of private security employment. Emphasis is on legal rules, security techniques and processes, life safety, and public relations. Successful completion satisfies the 40-hour basic training requirement for unarmed private security certification under Illinois revised statutes. This course is in compliance with the Illinois Public Act 93-0438 effective August 5, 2003 and the

Private Detective, Private alarm, Private Security and Locksmith Act of 2004. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Credit Hours.

Offered at: DA

Short Term Trd/Indstrl/Trnsprt 126 Machining Processing I

This course is an introduction to machine tools and processes associated with the machine trade. Topics include industrial safety and environmental protection, basic hand tools, shop floor math, job planning, benchwork, layout, power saw operations, drilling machines, milling machines, and print readings. Upon completion, students should be able to perform the basic operations of measuring, layout, drilling, sawing, and milling. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 4 Lab Hours. 3 Credit Hours.

Offered at: DA

Short Term Trd/Indstrl/Trnsprt 127 Machining Processes II

This course further develops the students knowledge, skills and abilities in machining building on the fundamental principles covered in Machining Process I. Students manufacture projects that require precision layout, set-up, machining, and inspection. These projects require students to perform various operations on engine lathes, and surface grinders. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in STTRDE 126.

1 Lecture Hour. 4 Lab Hours. 3 Credit Hours.

Offered at: DA

Short Term Trd/Indstrl/Trnsprt 128 Computer Numerical Control Fundamentals

The course is designed to enable students to become familiar with CNC machinery as it applies to the operator. The information presented will include introduction to CNC set-up, tooling, operation, and trouble shooting. Writing assignments, as appropriate, are the part of the course.

Prerequisite(s): Grade of C or better in STTRDE 126 and 127 or with the consent of the instructor.

1 Lecture Hour. 4 Lab Hours. 3 Credit Hours.

Offered at: DA

Short Term Trd/Indstrl/Trnsprt 129 CNC Milling Operations & Programming

This course introduces the programming, setup, and operation of CNC machining centers. Topics include programming formats, control functions, program editing, part production, and inspection. Various projects will strengthen the proper use, programming, troubleshooting of this equipment in the manufacturing setting. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in STTRDE 128.

1 Lecture Hour. 4 Lab Hours. 3 Credit Hours.

Offered at: DA

Short Term Trd/Indstrl/Trnsprt 130 CNC Turning Operations & Programming

This course introduces the programming, setup, and operation of CNC turning centers. Topics include programming formats, control functions, program editing, part production, and inspection. Various projects will strengthen the proper use, programming and troubleshooting of this equipment in the manufacturing setting. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in STTRDE 129.

1 Lecture Hour. 4 Lab Hours. 3 Credit Hours.

Offered at: DA

Short Term Trd/Indstrl/Trnsprt 131**Machine Shop Math I**

This course is designed to provide student with the basic principles of Mathematics with applications that relate to typical machine shop problems. Topics to be studied include the review of fractions, decimals, measurements, ratios, proportions, and percent. An introduction to algebra, measuring systems, precision and accuracy as they relate to machining will also be included in the course. Electronic calculators are required for this course. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA

Short Term Trd/Indstrl/Trnsprt 132**Introduction to Welding Principles**

This course is designed to introduce students the principles of basic welding techniques, welding shop measurement, layout work, Mig and Tig welding operations and various equipment used in welding shops. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 4 Lab Hours. 3 Credit Hours.

Offered at: DA

Short Term Trd/Indstrl/Trnsprt 133**Intermediate Welding**

Course is designed to continue development of knowledge and skills in Arc, MIG and TIG welding processes. Students will complete various common joints in mild steel in the horizontal and vertical positions using single and multi-pass welds as assigned. Welding safety will be emphasized. Students will gain practice in metrology, weld inspection and an introduction to weld testing. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): STTRDE 132 with a grade of C or better or Consent of Department Chairperson.

3 Lecture Hours. 4 Lab Hours. 3 Credit Hours.

Offered at: DA

Short Term Trd/Indstrl/Trnsprt 134**Blueprint Reading for Welders**

This course prepares student to interpret blueprints and apply the information contained therein in the welding and fabrication trades. Emphasis is placed on the relationship between the two-dimensional drawing and the actual three-dimensional object. Basic and complex welding symbols will be covered. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: DA

Short Term Trd/Indstrl/Trnsprt 135**Advanced Welding**

Course is designed to advance development of knowledge and skills in Arc, MIG and TIG welding processes. Arc and MIG students will complete various common joints in the vertical and overhead positions with mild steel using single and multi-pass welds as assigned. TIG welders will weld mild steel, aluminum and stainless steel in the horizontal and vertical positions. Welding safety will be emphasized. Students will continue practice in metrology, weld inspection and interpretation welding drawings and symbols. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): STTRDE 133 with a grade of C or better or Consent of Department Chairperson.

1 Lecture Hour. 4 Lab Hours. 3 Credit Hours.

Offered at: DA

Short Term Trd/Indstrl/Trnsprt 136**Basic Horticulture**

This course will introduce students to basic concepts of Horticulture with emphasis on basic anatomy, terminology, and functions of plants and professions surrounding culture and use of ornamental plants. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 4 Lab Hours. 3 Credit Hours.

Offered at: DA

Short Term Trd/Indstrl/Trnsprt 137**Managing Urban Green Space**

This subject will provide an understanding of how to manage urban green spaces. The study policy, planning and process issues, community consultation, structures, systems and contractual relationships, landscape documentation, project planning and implementation, life-cycle analysis of landscape elements, urban vegetation planning, implementation and maintenance, sustainability concepts and examples. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in STTRDE 136 Basic Horticulture.

1 Lecture Hour. 4 Lab Hours. 3 Credit Hours.

Offered at: DA

Short Term Trd/Indstrl/Trnsprt 138**Horticultural Plant Science**

This subject covers the structure and function of plants and plant tissue, cell physiology, energy transformations, metabolism, photosynthesis, plant nutrition, water and nutrient uptake and transport and whole plant physiology. By the conclusion of this subject the student should be able to demonstrate their, of the and of the integration of these processes in the physiology of plant growth. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 4 Lab Hours. 3 Credit Hours.

Offered at: DA

Short Term Trd/Indstrl/Trnsprt 139**Urban Horticultural Floral**

This course will provide the student with a working knowledge of plant science, anatomy, morphology, physiology, taxonomy, reproduction and genetics as they relate to horticultural ornamental plants. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in STTRDE 136 - Basic Horticulture

1 Lecture Hour. 4 Lab Hours. 3 Credit Hours.

Offered at: DA

Short Term Trd/Indstrl/Trnsprt 140**Greenhouse Crop Production**

This course will cover information on the production of greenhouse crops and the cultural practices required for growth. Subjects including seeding, watering, fertilization, containers, growing Medias, temperature control, insect and disease control will be covered. Greenhouse plants and pot crops will be grown throughout the semester. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in STTRDE 136 - Basic Horticulture

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: DA

Short Term Trd/Indstrl/Trnsprt 141**Soil Fertility and Assessment**

This course introduces students to the ways that farmers and gardeners develop and maintain soil fertility in sustainable farming systems. Subjects include introduction to the tools, techniques and rational behind soil cultivation, soil analysis, soil physical properties, components, nutrient deficiency, soil chemistry, and soil fertility. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in CE TRDE 136- Basic Horticulture.

1 Lecture Hour. 4 Lab Hours. 3 Credit Hours.

Offered at: DA

Short Term Trd/Indstrl/Trnsprt 142 Management of Plant and Animal Invasion

This course will provide insight and learning of the invasions that are natural ecological phenomena. Dispersing individuals encounter suitable habitat, establish, spread and evolve. In this way, species have radiated outwards from their origins, colonized distant offshore islands, and species have spread in response to changes in climate. Human-induced invasions of plants, animals and diseases in modern times have dramatically altered the scales of time and distance over which invasions take place. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in STTRDE 136 - Basic Horticulture.

1 Lecture Hour. 4 Lab Hours. 3 Credit Hours.

Offered at: DA

Short Term Trd/Indstrl/Trnsprt 143 Sustainable Farming Practices

This course is designated for those interested in or presently working in the area of grounds care and maintenance. Areas of study including pruning, fertilizing, pesticide use, digging and replacement of landscape plants, general turf care and maintenance of equipment. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in STTRDE 136, 140 and 141.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: DA

Short Term Trd/Indstrl/Trnsprt 144 Practicum/Internship

This Practicum/Internship is designed for those who have successfully completed the course work for all courses associated with the Sustainable Urban Horticulture program. This Practicum/Internship will allow the student to experience the full vision and mission of the program. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in STTRDE 136, 137,138,139, 140, 141,142,143 and Consent of Department Chairperson.

10 Lab Hours. 5 Credit Hours.

Offered at: DA

Short Term Trd/Indstrl/Trnsprt 145 Class C Driver Training

This course provides in-depth coverage of the laws, rules, and regulations that are applicable to the operation of both commercial and non-commercial motor vehicles. Students gain knowledge and skills in the area of vehicle inspection, pre-testing, skill operations, and defensive driving techniques. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Must be at least 21 years of age, possess a valid driver license, eligible for Department of Transportation Medical Card, AND physically able to operate the vehicle and maintain negative drug/alcohol testing.

3 Lecture Hours. 3 Credit Hours.

Offered at: OH

Short Term Trd/Indstrl/Trnsprt 147 Passenger Driver Practice

This course is designed for individuals with little or no commercial driving experience, this course provides the theoretical foundation to become a commercial driver. Students will learn the regulations and actual applications that governs each classification and why commercial vehicles are identified by classification. Students will obtain their Class B Commercial Driver's License Learner's Permit.

Prerequisite(s): Prospective student must be 21 years of age or older, possess a valid drivers license, a good driving record (demonstrated through a court ordered motor vehicle report) and pass a physical examination. Additionally they must successfully

8 Lab Hours. 4 Credit Hours.

Offered at: OH

Short Term Trd/Indstrl/Trnsprt 148 Commercial Driving Training Practice

This course is designed as the continuation of the theory course, this course provides students with behind-the-wheel experience leading them to present their driver's exam and obtaining the Illinois Commercial Driver's License. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Student must be 21 years of age or older, possess a valid drivers license, a good driving record (demonstrated thru a court ordered motor vehicle report) & pass a physical exam. Grade of C or better in STTRDE 0337 & obtain a CDL learner'

14 Lab Hours. 7 Credit Hours.

Offered at: OH

Short Term Trd/Indstrl/Trnsprt 149 Commercial Driver/Refresher Training

This course is designed for individuals with commercial driving experience, this course provides drivers with a review of the current rules, regulations and requirements to which all commercial drivers must adhere. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Credit Hours.

Offered at: OH

Short Term Trd/Indstrl/Trnsprt 337 Commercial Driver Training Theory

This course is designed for individuals with little or no commercial driving experience, this course provides the theoretical foundation to become a commercial driver. Through this course, students will obtain their commercial driver's license learner's permit. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Prospective students must be 21 years of age or older, possess a valid drivers license, a good driving record (demonstrated through a court ordered motor vehicle report) and pass a physical examination and drug/alcohol test.

6.5 Lecture Hours. 1 Lab Hour. 7 Credit Hours.

Offered at: OH

Short Term Trd/Indstrl/Trnsprt 338 Passenger Driver Theory

This course is designed for individuals with little or no commercial driving experience, this course provides the theoretical foundation to become a commercial driver. Through this course, students will obtain their commercial driver's license learner's permit. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Prospective students must be 21 years of age or older, possess a valid drivers license, a good driving record (demonstrated through a court ordered motor vehicle report) and pass a Department of Transportation (DOT) physical examination.

5 Lecture Hours. 5 Credit Hours.

Offered at: OH

SHORT TRM BUSN/PROFESSION SRVC (0502)

Short Trm Busn/Profession Srvc 167 A+ Certification Exam Prep

Students will prepare to take the A+ certification exam through drills and case study examples. Effective test taking strategies will be explored.

4 Lecture Hours. 4 Credit Hours.

Offered at: WR

Short Trm Busn/Profession Srvc 238**IL Real Estate Broker PreLicense**

This course was designed to meet the 75-hour licensing curriculum requirements for real estate brokers as set forth by the State of Illinois. Topics included are Illinois license law, agency, state and federal law, relationships with employing brokers, working with sellers and buyers, real property, fair housing, ownership, contracts, real estate valuation, environmental issues, construction, real estate closings, advertising, property management, and commercial real estate. The course mixes presentation of facts, concepts, and key terms with real-life scenarios to illustrate the topics being taught, as well as assessment of such. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): COMPASS TEST SCORES: Reading Score: 72 or higher Math Score: Algebra scores of 49 or higher

6 Lecture Hours. 6 Credit Hours.

Offered at: DA TR

Short Trm Busn/Profession Srvc 239**IL Broker Applied Real Estate Principles-Interactive**

This course includes student participation in five three-hour interactive lessons with an instructor to apply the knowledge learned in the Illinois Real Estate Broker Pre-License topics course. Fifteen (15) hours must be classroom or interactive media required by the Illinois Department of Financial & Professional Regulation to complete the 90-hours of Real Estate training to be allowed to test for the Real Estate Broker's exam. Each interactive lesson begins with a review of principles, concepts, requirements for compliance and violations, summary of best practices, and/or applicable laws/licensee requirements. Students will also participate in a variety of interactive activities (i.e., quizzes, content review exercises, class and small group discussion) where they will apply their knowledge to a variety of real-world scenarios designed to provide valuable analysis and decision-making experience. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Successful completion of STBPS 238 -IL Real Estate Broker Pre-License course.

1 Lecture Hour. 1 Credit Hour.

Offered at: DA TR

Short Trm Busn/Profession Srvc 240**Introduction To Pc Hardware**

This course begins the introduction to PC technology as identified by the objectives in CompTIA's A+ certification. The class provides the framework for understanding how a computer works from the inside out. It is the perfect start into PC hardware and operating systems. 14 hrs. \$399

1 Lecture Hour. 1 Credit Hour.

Offered at: DA

Short Trm Busn/Profession Srvc 241**Pc Repair & Troubleshooting**

Students will learn about PC hardware and system maintenance procedures. Topics include a detailed look at hardware components, power supply, upgrades, networking, maintenance and troubleshooting. In hands-on exercises, students will assign configuration settings, upgrade systems, configure SCSI devices, install printers and monitors, remove and replace components, and troubleshoot POST errors. 35 hrs. \$899

2.5 Lecture Hours. 2.5 Credit Hours.

Offered at: DA

Short Trm Busn/Profession Srvc 242**PC Operating Systems**

Students will learn installation procedures, dealing with legacy systems, creating and using emergency boot diskettes and managing printers and other devices. Other topics include networking, communication protocols, Internet access and troubleshooting. In hands-on exercises, students will install Windows operating systems, manage Windows devices, use the FDISK utility, perform backups, manage system files, configure networks, configure Internet access, and troubleshoot operating system errors. 35 hrs. \$899

2.5 Lecture Hours. 2.5 Credit Hours.

Offered at: DA

SOCIAL SCIENCE (0088)**Social Science 101****General Course I Social Science**

A survey of subject matter and concepts selected from the disciplines of anthropology, psychology, and sociology. Writing assignments, as appropriate to the discipline, are part of the course

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: S9 900 GE: Social & Behavioral Sciences

Social Science 102**General Course II Social Science**

A survey of subject matter and concepts selected from the disciplines of economics, geography, history, and political science. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: S9 901 GE: Social & Behavioral Sciences

Social Science 103**Intro To Applied Social Science**

General introduction to influence of modern scientific technology on the life of the worker, the study of social problems that affect lives of working people in the years to come, and contribution of social science to development of social participation skills necessary for vocational and marital success. Applicable for A.A.S. degree only. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Social Science 104**Special Topics in the Social Sciences**

This course focuses upon selected topics in social sciences. The course is offered to students interested in the characteristics of group life, the effect of the local action on the global scene, and the interrelationships between society culture, and the individual. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Course may be repeated up to three times and may count for a maximum of six credit hours. Consent of Department Chairperson required for repeatability.

Prerequisite(s): Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Social Science 105**American Social Issues**

Critical study of selected current social problems such as labor relations, the welfare system, civil rights and automation. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK HW

GE: Social & Behavioral Sciences

Social Science 106**North & South American Social Development**

Structure and culture of modern urban and industrial development; topics include industrialization and leisure, their consequences for status and class organization in the work place and social organization in the wider community, social inequality, social stratification and mobility, and changing values and social structures. Writing assignments, as appropriate to the discipline, are part of this course

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA

GE: Social & Behavioral Sciences

Social Science 110**Introduction to Global Studies**

To prepare students for an increasingly interdependent world, this multi disciplinary core course cultivates an active conversation about the interconnected global context of our lives. The class examines shared and divergent histories, politics, aesthetics, communication practices, cultures, and economies, as well as human impact on the environment by paying close attention to contradictions among ethnic and religious identities, strong national affiliations, and the fluidity of nation-state borders. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

HD Course

Social Science 221**Black Economics**

African-Americans as producers rather than consumers, evaluation, understanding of black power and militancy. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

GE: Social & Behavioral Sciences HD Course

SOCIAL SERVICE (0091)**Social Service 101****Introduction To Social Work**

Concepts, principles, and processes encountered by social service workers; questions of motivation, acceptance, attitude, techniques of listening and interviewing. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 100, or Grade of C or better in English 98, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK HW

Social Service 102**Introduction To Gerontology**

An overview of elder issues including the social, psychological and physical aspects of the aging process. The course will also examine the economic and social impact of the growing elderly population on US society and the global community and will explore career opportunities in this expanding field. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

Social Service 103**Aging And Social Policy**

A study of government policy to familiarize students with programs at the federal, state and local levels that address elder issues from housing to health care to employment to nutrition and recreation. Students will learn how public policy is created, the role of elder advocacy groups in shaping legislative agendas and issues affecting current and future government programs such as Medicare and Medicaid. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Social Service 102, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Social Service 105**Physiology of Aging**

An exploration of the basic changes that occur in the physical make-up of men and women as a result of the aging process. Discussion will include the causes and effects of disease and debility, as well as health assessment measures, health care options and health maintenance strategies. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Social Service 102, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Social Service 106**Aging And The Family**

An introduction to family theory as found in significant sociological traditions. The course will discuss the effect of the aging process on extended and nuclear families, the changing roles of parent and child, the family stresses and rewards of care giving, the role of aging siblings, relationships between the generations and the financial and psychological impact of caring for the frail elder in the family setting. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Social Service 102, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Social Service 107**Aging And Leisure**

An exploration of the opportunities that are available to the elderly from the well years to the frail years, for personal enrichment, intellectual development, volunteering, health improvement, travel, spiritual growth and second careers. Students will learn the ways in which a majority of an individuals older years may be a time of great opportunities for growth, development and service. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Social Service 102, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Social Service 109**Report Writing for Social Service Aides**

Introduction to records, reports, and forms required in social agencies; report writing and record keeping. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in English 101, Grade of C or better OR Concurrent enrollment in SOC SER 101 OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK HW

Social Service 201 Principles of Social Work Practice

Introduction to social welfare resources of the community; discussion of methods to help persons make use of these resources, including analysis of the helping relationship, role of non-professional worker, problem-solving approach to individual, family, and community problems. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in English 101 AND Social Service 101.

3 Lecture Hours. 3 Credit Hours.

Offered at: **KK HW**

Social Service 202 Aging And Human Services

This course explores the history of gerontological social work and the methods employed in providing the greatest benefits of human services to the elderly population. Students will learn the practical principles of case management from interviewing to evaluation and become familiar with the characteristics of the service settings in which they will encounter the elderly in the role of Gerontology Specialist. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (Social Service 102 and Social Service 106), or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: **WR**

Social Service 203 Inter Communication with the Elderly

This course is a study of the basic principles of communication as employed in counseling and human services settings. It will emphasize the development of the listening, speaking, behavioral and attitudinal skills that are required by gerontology professionals at the level of social work assistant. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (Social Service 102 and Social Service 106), or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: **WR**

Social Service 204 Cross-Culture Studies In Gerontology

A comparative study of aging in a variety of cultures from traditional to modern. Students will learn that the attitude of a culture towards its aging population is based on the complex set of interrelationships between its social, religious and historical traditions. The course will examine Native American, traditional Chinese, modern European, dominant and minority American cultures and their attitudes toward the elderly and how these attitudes are crystallized into social policy. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Social Service 102, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: **WR**

HD Course

Social Service 206 Human Development and Aging

This course builds on human growth and development, specifically designed to focus on development tasks relative to those who are fifty (50) and beyond. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: **HW**

Social Service 212 Intro To Group Process

For persons who work with groups; parent groups, community action programs, recreation programs, church groups, or in child care programs. How individuals

function as group members; role of the leader; encouraging participation and group action for achieving group goals. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in English 101, Grade of C or better or concurrent enrollment in SOC SERV 101 OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: **KK HW**

Social Service 213 Advanced Group Process

For students who desire to develop skill in working with groups; discussion of techniques for working most effectively with different types of groups. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Social Service 212.

3 Lecture Hours. 3 Credit Hours.

Offered at: **KK**

Social Service 215 Social Prob & Soc Action I

For group workers, community leaders, and teachers. Problems of urbanization, industrialization, cultural and educational deprivation, juvenile delinquency, and techniques and programs organized to combat these problems. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: **KK HW**

Social Service 228 Methodology For Social Work

Principles of casework applied to work with families; community resources available to meet economic, emotional, and health needs, and techniques for implementing referrals for such services. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in English 101, (Child Development 101 and Child Development 102 and Social Service 101 and Social Service 201), or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: **KK HW**

Social Service 229 Social Service Practicum

Field work placement in a family welfare agency 20 hours per week, 8 or 16 weeks; 2-hour weekly seminar. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Social Service 101,109,201,215,228 AND Child Development 101,102, or Consent of Department Chairperson. Must attend a mandatory orientation, prior acceptance of program and secure a practicum site before the first

2 Lecture Hours. 20 Lab Hours. 6 Credit Hours.

Offered at: **KK HW**

Social Service 230 Domestic Violence Practicum

This course will provide students with both a micro and macro perspective of a silent problem that is drastically impacting society today-Domestic Violence. This course will introduce students to the history of domestic violence, and theories and methods used to study domestic violence. This course will be devoted to discussions of different forms of domestic violence including elder abuse, child abuse, and intimate partner violence. There will be dialog of how violence is shaped by social location, race, class, and gender. Additionally discussions will include special topics in domestic violence regarding heterosexual and homosexual families, religion, the military, and American and Global cultures students will use both in a classroom setting and their cooperative work experiences to learn and practice intervention, as well as prevention strategies utilized by social service agencies and the criminal justice system. Upon successful completion of this course and cooperative work experience hours students will receive the Illinois Domestic Violence 40 certification (provided by an approved Illinois Domestic Violence training site). Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in English 101, AND Concurrent enrollment in SOC SER 228, OR Consent of Department Chairperson.

1 Lecture Hour. 10 Lab Hours. 3 Credit Hours.

Offered at: KK

Social Service 248 Principles Of Youth & Group Work

Social development and behavior of young people and other adults in all group settings; church groups, street gangs, tutoring programs, recreational groups, YMCAs and YWCAs settlement or delinquency prevention programs. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK HW

Social Service 249 Practicum In Youth Work

Field work assignment in youth agency 20 hours per week, 8 or 16 weeks; 2-hour weekly seminar. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (Child Development 101 and Child Development 102 and Social Service 101 and Social Service 248), or Consent of Department Chairperson.

2 Lecture Hours. 20 Lab Hours. 6 Credit Hours.

Offered at: KK HW

Social Service 250 Practicum I

This course combines classroom training with field placement at a community agency or institution serving older persons. Students apply learning about the organization and management of aging services, explore community resources, demonstrate work habits, assess their attitudes and career skills in gerontology, and relate current aging research to practice. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (Social Service 102 and Social Service 105 and Psychology 222).

2 Lecture Hours. 5 Lab Hours. 3 Credit Hours.

Offered at: WR

Social Service 251 Practicum II

This capstone course provides a review of gerontology course work, field placement experience at a human services agency or institution serving older persons, advanced classroom training in practice concepts related to service delivery to older adults, an guidance in producing a final project that will summarize the students gerontological course work. Writing assignment, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Social Service 250.

2 Lecture Hours. 5 Lab Hours. 3 Credit Hours.

Offered at: WR

Social Service 252 Nursing Home Administration

This course introduces students to administrative practices in long-term care facilities including organization, financial management, staffing, community relations, managing the physical plant, in-service training, and alternatives to institutionalization. In preparation for taking the Nursing Home Administrator licensing exam, students will also learn about community health systems, auxiliary agencies and programs, chronic diseases and infirmities, the aging process and the care of the aged, and related local, state, and federal legislation.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Social Service 253 Accounting For Long Term Care

This course is designed to give students, who will be essentially non-financial managers, the financial knowledge needed to perform the duties of a healthcare administrator in the long-term care setting.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: WR

Social Service 258 Prin Practice In Comm Org

For students who work with community action programs, community planning, or neighborhood improvement. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in (Child Development 102 and Social Service 101 and Social Service 201 and Social Service 213), or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Social Service 259 Practicum in Community Service

Field work placement in a community service agency plus weekly seminars. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Social Service 258, or Consent of Department Chairperson.

2 Lecture Hours. 20 Lab Hours. 6 Credit Hours.

Offered at: KK

SOCIOLOGY (0089)

Sociology 110 Religion And Society

Sociological investigation into relationship between religious values and forms of social organization. Concentration on contemporary religious movements and includes examples from Christian, Jewish, Islamic and non-western religions. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

GE: Social & Behavioral Sciences

Sociology 201**Intro To the Study Of Society**

Characteristics of group life, the effect of the group on human conduct, and the interrelationships between society, culture, and the individual. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: S7 900 GE: Social & Behavioral Sciences HD Course

Sociology 202**Sociology Of Urban Life**

Study of urbanization, personal and social disorganization, collective behavior, social movements and voluntary associations, race and ethnic relations, social stratification, industrial relations, and political sociology. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK TR HW

GE: Social & Behavioral Sciences

Sociology 203**Marriage And The Family**

Study of the family as a dynamic social institution; emphasis on love, sex, dating, courtship and marriage, child rearing, marital problems, and divorce. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: S7 902 GE: Social & Behavioral Sciences

Sociology 205**Social Problems**

Understanding current social problems. This class explores the genesis, significance, and amelioration of social problems. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX TR WR

IAI: S7 901 GE: Social & Behavioral Sciences

Sociology 207**The Sociology Of Sex & Gender**

Examines the difference between behavior based on what society says is appropriate in order to be masculine or feminine. Examines the question of what forces in society are most influential in determining the place of men and women with special emphasis on power. Examines how this influence works through the process of socialization and core social institutions, including marriage and family, education, religion, the economy, and politics. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA HW WR

IAI: S7 904D GE: Social & Behavioral Sciences HD Course

Sociology 209**The Black Man In The U S**

Environmental factors that identify African-Americans as an ethnic group in the United States; study of social values, attitudes, definition, behavior, social institutions and processes of this ethnic group. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

GE: Social & Behavioral Sciences HD Course

Sociology 210**Diverse Cultures/Global Age**

Examines the issues of diversity and prepares students to speak and act with sensitivity and awareness of others. Students will gain proficiency in global events and their implications; students will learn how to interact with international visitors through the use of role playing. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW

HD Course

Sociology 211**Race & Ethnic Relations**

A comparative analysis of racial, religious and ethnic groups. The course examines how group identity is formed and it is maintained or persists. It includes how group identity affects inter-group relations, social movements, government policy and related social problems. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: OH TR HW WR

IAI: S7 903D GE: Social & Behavioral Sciences HD Course

Sociology 241**Institutional Racism**

Survey of racism in basic institutions of American life: education, law enforcement, health services, government, business, industry, religion, entertainment, science, and housing. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH

IAI: S7 903D GE: Social & Behavioral Sciences HD Course

Sociology 280**Human Relations**

Social and psychological aspects of inter-group relations; relationships between the dominant group and minority religious, ethnic, racial and social class groups. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: TR

GE: Social & Behavioral Sciences HD Course

SPANISH (0057)**Spanish 101****First Course Spanish**

Pronunciation and basic structures, speech patterns, reading, and writing skills. Writing assignments, as appropriate to the discipline, are part of the course.

4 Lecture Hours. 4 Credit Hours.

Offered at: DA KK MX OH TR HW WR

HD Course

Spanish 102**Second Course Spanish**

Continuation of Spanish 101. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Placement Test or Grade of C or better in Spanish 101

4 Lecture Hours. 4 Credit Hours.

Offered at: DA KK MX OH TR HW WR

HD Course

Spanish 103**Third Course Spanish**

Review and development of basic language skills, conducted in Spanish. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Spanish 102; OR Placement Exam AND Interview with World Language Faculty

4 Lecture Hours. 4 Credit Hours.

Offered at: DA KK MX OH TR HW WR

HD Course

Spanish 104**Fourth Course Spanish**

Review of language structure and interpretation of readings, conducted in Spanish. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Spanish 103; OR Placement Test AND Interview with World Language Faculty.

4 Lecture Hours. 4 Credit Hours.

Offered at: DA KK OH TR HW WR

IAI: H1 900 GE: Humanities HD Course

Spanish 111**Spanish For Hispanos**

Formal structure of Spanish and preparation for enrollment in advanced courses. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA KK HW

IAI: H1 900 GE: Humanities HD Course

Spanish 113**Spanish For Near Native Speakers I**

Review of formal structure and sound system of language for near-native speakers; emphasis on accurate, fluent and effective oral expression. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Consent of Department Chairperson.

4 Lecture Hours. 4 Credit Hours.

Offered at: DA HW WR

GE: Humanities HD Course

Spanish 114**Spanish for Near-Native Speakers II**

Continuation of Spanish 113. Emphasis on reading and writing skills. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Spanish 113 or Consent of Department Chairperson

4 Lecture Hours. 4 Credit Hours.

Offered at: DA HW WR

GE: Humanities HD Course

Spanish 191**Survival Spanish Nursing**

Provides trans-cultural training for nurses and future nurses. Emphasis is on enhancing quality patient care. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK MX

GE: Humanities HD Course

Spanish 206**Intensive Oral Practice Spanish**

Practice in spoken language, fluency and accuracy. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Spanish 104, OR Placement Test, OR Consent of Department Chairperson.

4 Lecture Hours. 4 Credit Hours.

Offered at: KK TR HW WR

GE: Humanities HD Course

Spanish 210**Modern Civilization & Culture Spanish**

Recent social, cultural, and historical trends, conducted in Spanish and English. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK TR HW WR

IAI: H1 900 GE: Humanities HD Course

Spanish 213**Intro To Modern Literature Spanish**

Selections from contemporary writings, conducted in Spanish. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Spanish 104, OR Placement Test, OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK HW

IAI: H3 916 GE: Humanities HD Course

Spanish 214**Readings In Literature Spanish**

Works from selected historical periods, conducted in the Spanish. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Spanish 104, OR Placement Test, OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK TR HW WR

IAI: H3 916 GE: Humanities HD Course

SPEECH (0095)**Speech 101****Fundamentals of Speech Communication**

Theory and practice of oral communication; development of poise and confidence, delivery, and speech organization; public speaking practice; small group discussion, and development of standards of criticism. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: C2 900 GE: Communications

Speech 102**Public Speaking**

Advanced theory and practice of oral communication in public speaking in speaker-audience situation; discussion of psychological effects of speech techniques, choice of words, attitudes, and structuring; role of speech in gaining consensus in a confrontation of the rhetoric of agitation and control; studies of outside speakers from personal viewing, television viewing, and examination of speech texts, argumentative techniques used in the persuasive speech. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Speech 101, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK WR

Speech 104**Group Communication**

Principles and theories involved in discussion techniques; participation in various kinds of discussion groups to prepare student for leadership roles in community, business, and professional groups. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Speech 101, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK TR WR

Speech 106**Human Communications**

Types of verbal and nonverbal communication, oral and visual, as transmission of data and information to elicit a response; includes methods of encoding information for communication, history, social consequences of modern communication, both verbal and visual. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Speech 112**Intro To Oral Communication**

Process of communication applied to interpersonal group and mass communication; emphasis on practical application of communication in our daily lives. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Speech 131**Introduction To The Theater**

Elementary principles of acting, directing, scene design, scene construction, costuming, lighting, sound and makeup for the stage. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK TR HW

IAI: F1 907 GE: Fine Arts

Speech 135**Speech Projects**

A speech project performed outside of the classroom as an activity. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated two credit hours will be counted towards graduation.

Prerequisite(s): Consent of Department Chairperson.

3 Lab Hours. 1 Credit Hour.

Offered at: KK HW WR

Speech 140**Speech Clinic**

For students with problems in voice or diction. Huskiness, lack of vocal melody, nasality, slovenly diction, sound substitution, lack of ease in precise articulation of consonant and vowel sounds are treated. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: KK

Speech 143**Training The Speaking Voice**

Improvement and development of an individuals voice, speech, pitch, volume, and overall articulation through use of phonetics of American English. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

Speech 144**Oral Reading & Interpretation**

Study of communication skills required for effective oral reading; experience in oral interpretation of representative examples from prose, poetry, and drama. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Speech 101, or Consent of Department Chairperson.

2 - 3 Lecture Hours. 2 - 3 Credit Hours.

Offered at: KK HW WR

Speech 145**Radio And Television**

Historical development of broadcasting and analysis of existing programs; objectives of radio and television, study of program types, acceptable standards for broadcasting, and career opportunities. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK WR

Speech 160**Business & Professional Speech**

Speech techniques used in selling, administrative reporting, public relations, program speaking, conference procedures, and other industrial and professional presentations. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK WR

Speech 202 Interpersonal Communication

Study of leadership, group process, and interpersonal relations in the small group, conference, and public forum. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: TR HW WR

Speech 206 Argumentation

Role of debate in a democratic society; principles of investigation and analysis of issues, types and tests of evidence and reasoning as applied to public questions. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Speech 101, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Speech 243 Speech For Teachers

Correcting common errors of articulation, identifying and directing remedial cases, reading aloud with interest, controlling and directing simple classroom discussions, developing good speaking voices, and selecting and presenting assembly programs. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Speech 101, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK HW

SUPPLY CHAIN MGMT & LOGISTICS (0333)

Supply Chain Mgmt & Logistics 150 Intro To Transportation Administration

This course covers transportation practices and strategies for the 21st century. Provides an overview of basic principles and processes for transportation related functions in both the public and private sectors; covers state and federal regulations; provides a historical look at transportation in the U.S. and the impact it has on the economy; characteristics of different modes of transportation will be discussed. The role and importance of transportation in the economy and its relationship to the supply chain will be covered in detail. Transportation modes - trucks, rail, air, and water - will be examined for both domestic and global transportation. Review support functions for transportation management. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: OH

Supply Chain Mgmt & Logistics 151 Central Store: Applied Logistics

This course allows students to perform entry-level job functions in "The Central Store," which is a live logistics operation. In this course, students work in the Central Store under supervision, allowing them an opportunity to gain the skills needed to demonstrate preparedness for full time employment in a logistics environment. Additionally, students will apply critical thinking and business communications skills. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

4 Lecture Hours. 2 Lab Hours. 6 Credit Hours.

Offered at: OH

Supply Chain Mgmt & Logistics 152 Intro To Business Logistics

An introduction to the interrelated activities involved with the inbound, in process and outbound movement and storage of goods as well as the related information from the

manufacturer to the consumer. There will be a special emphasis placed on how the functional areas of logistics such as customer service, transportation, inventory control, warehousing and packaging impact supply channel decision-making. Introduction and analysis of the logistics concept to include a brief history of logistics, the management of transportation, inventory, packaging, warehousing, materials handling, order processing, facility location and customer service. Writing assignments, as appropriate to the discipline, are part of the course. .

3 Lecture Hours. 3 Credit Hours.

Offered at: OH

Supply Chain Mgmt & Logistics 154 Customer Service Operations

An introduction to customer service operations and to the key elements of customer service that are necessary to ensure high levels of customer satisfaction. Key elements include: the customer order process, reverse logistics, characteristics of good customer service, customer relationship management (CRM), customer life cycle (CLC), service performance metrics, supplier management inventory, order management, delivery and tracking and approaches to addressing challenging customer situations that inhibit satisfaction. Covers the fundamentals of finish goods movements from the point of production to the receipt by the customer; includes transportation, warehousing, inventory deployment and physical distribution. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: OH

Supply Chain Mgmt & Logistics 155 Warehouse Management

Overview of warehouse equipment, procedures, facility layout, the role of the warehouse and logistic and business. This course will enable students to understand the various functions involved in the operation of a warehouse. Key elements include: the role of warehousing in the supply chain, storage and handling techniques, performance metrics, customer service considerations, and safety concerns across various types of distribution facilities. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: OH

Supply Chain Mgmt & Logistics 158 Purchasing

An introduction to purchasing roles and functions. Functions include: strategic sourcing, purchasing operations, supply chain management, project management, credit, receiving, delivery tracking, supplier selection and administration, qualification of new suppliers, preparing purchase orders, negotiating price and delivery, strategic customer/vendor relationships, and resolution of problems. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: OH

Supply Chain Mgmt & Logistics 159 Inventory Management

Fundamental principles of inventory control; inventory classifications – raw materials, work-in-process, finished goods and maintenance, repair and operations inventory. Using Pareto analysis (80/20 rule) and ABC classifications; importance of inventory record accuracy; inventory turnover and other inventory measurements; principles of Enterprise Resource Planning (ERP), Material Requirements Planning (MRP) and Manufacturing Resource Planning (MRP II); inventory control systems; internal and external lead time and cumulative lead time; excess and obsolete inventory; role of inventory control in the logistics process and organization; physical inventories and cycle counting; and scheduling techniques. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: OH

Supply Chain Mgmt & Logistics 160 Operations Management

This course provides management and analytical concepts/tools for the management of operations and the decision-making process within the scope of the supply chain. Recently, operations strategy has provided companies with a competitive advantage in supply chains and transportation. Decision-making regarding operational issues is one of the most common tasks within organizations. This course will enable the student to perform the quantitative analysis necessary and understand the management issues in order to make good operational decisions within the supply chain. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: OH

Supply Chain Mgmt & Logistics 180 E-Commerce/E-Procurement

The purpose of this course is to provide the student with an understanding of the role of electronic commerce (e-commerce), electronic procurement (e-procurement), and their impact on supply chain management decision-making. This course is designed to provide the student with a historical perspective of the evolution of e-commerce, e-procurement and how they have affected the supply chain. Topics include a history of e-commerce, business to business (B2B) models, business to consumer (B2C) models, consumer to consumer (C2C) models as well as the role of Internet technologies in e-commerce. How the Internet has changed warehousing and transportation strategies and the way we conduct business in the supply chain. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: OH

Supply Chain Mgmt & Logistics 181 Demand Planning & Forecasting

Provides an introduction to customer demand forecasting, planning and studies the critical concept of closely balancing supply and demand using both quantitative and qualitative forecasting techniques. Topics covered include sales and operations planning (S&OP), market and business intelligence, demand shaping, trends, cycles, mitigating risk, collaborative planning, forecasting and replenishment (CPFR) processes, independent and dependent demand. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: OH

Supply Chain Mgmt & Logistics 182 Global Logistics

Provides a study of the supply chain management and logistics function related to the global environment including import/export, customs clearance, international legal considerations, global sourcing, financing, import duties and letters of credit. This course is designed to survey the impact of the emerging global market place on today's business environment. In particular, this course will integrate the concepts, theories, and evolving practices of global supply chains with today's marketplace. Topics include international terms of sale, impact of e-commerce on global strategies, international transportation carriers, documentation issues, global third-party providers, global sourcing, legal and ethical considerations.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: OH

Supply Chain Mgmt & Logistics 210 Inventory Control

Fundamental principles of inventory control. Inventory classification - raw materials, work-in-process, and finished goods. Using the 80/20 rule and ABC classifications. Importance of inventory record accuracy. Inventory turnover and other inventory

measurements. Principles of Material Requirements Planning and MRP II. Inventory control systems. Internal and external lead time and cumulative lead time. Excess and obsolete inventory. Role of inventory control in the logistics process and organization. Physical inventories and cycle counting. Scheduling techniques. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: OH

SURGICAL TECHNOLOGY (0016)

Surgical Technology 111

Intro To Surgical Technology

This course is designed to present the basic concepts and principles for developing skill competencies required for assisting in surgery, to introduce the student to the language of the operating room, gain information about the history and legal aspects of the profession, understand surgical services, and understand the role of the surgical technologist. This course also explores various human diversity issues relating to the care of surgical patients. Age, disability status, ethnicity, gender, race, religion and economic status will all be examined. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admissions to the Surgical Technology Program, Grade of C or better in ENGLISH 101, BIOLOGY 120 and BIOLOGY 226

4 Lecture Hours. 4 Credit Hours.

Offered at: MX

Surgical Technology 112

Application of Aseptic Technique

This course introduces students to the concept of sterile technique and how it is applied to preoperative, intraoperative and postoperative duties of a surgical technologist. The physiology of infection and the need for surgical intervention will be discussed. Clinical skills practiced in the laboratory classroom include hand washing, surgical hand scrub, gowning self and other, gloving self and other, establishing and maintaining a sterile field, and getting to the field successfully. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission to the SURG TC Program/Plan 267 or SURG TC Program/Plan 268.

3 Lecture Hours. 4 Lab Hours. 5 Credit Hours.

Offered at: MX

Surgical Technology 113

Surgical Pharmacology

This course will introduce the principles of the compounds and chemicals used in the surgical setting. General terminology and abbreviations associated with pharmacology and anesthesia will be discussed. This course defines the rationale for the use of specific drugs in surgical intervention. Drug action, uses and modes of administration used in the care of the surgical patient will be emphasized. Safe handling of surgical drugs and aseptic technique used for presentation to the field will be demonstrated and assessed in practicum lab. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission to the SURG TC Program/Plan 267 or SURG TC Program/Plan 268 and Grade of C or better in SURG TC 111 and 112.

3 Lecture Hours. 1 Lab Hour. 4 Credit Hours.

Offered at: MX

Surgical Technology 114 Surgical Intervention I

A study of preoperative and intraoperative practice with focus on the following surgical specialties: General, Obstetrics/Gynecology, Genitourinary, Ophthalmic, ENT, Oral Maxillofacial, Plastic and Reconstructive, and Orthopedic surgery. The laboratory portion of the course allows the student to put into action the theory acquired in class. The student will participate in entry level mock surgery cases. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission to the SURG TC Program/Plan 267 or SURG TC Program/Plan 268 and Grade of C or better in SURG TC 111, SURG TC 112 and BIOLOGY 227 and concurrent enrollment in SURG TC 116.

3 Lecture Hours. 4 Lab Hours. 5 Credit Hours.

Offered at: MX

Surgical Technology 116 Surgical Intervention II

A study of preoperative and intraoperative practice with focus on the following surgical specialties: Peripheral Vascular, Cardiac, Pediatric and Neurosurgery. The lab portion of the course allows the student to put into action the theory acquired in class. The student will participate in entry level mock surgery cases. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission to the SURG TC Program/Plan 267 or SURG TC Program/Plan 268 and Grade of C or better in SURG TC 111, SURG TC 112, SURG TC 113 and BIOLOGY 227 and concurrent enrollment in SURG TC 114.

3 Lecture Hours. 4 Lab Hours. 5 Credit Hours.

Offered at: MX

Surgical Technology 211 Surgical Intervention IV

A study of surgical procedures with emphasis on thoracic, vascular and cardiac surgery. There is also emphasis placed on resume writing, job placement, interviewing and negotiating in the job market. Review for the national exam. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Surgical Technology 200.

2 Lecture Hours. 1 Lab Hour. 2 Credit Hours.

Offered at: MX

Surgical Technology 212 Clinical Practicum I

A clinical course designed to provide opportunities for the student to synthesize and apply the skills gathered in the previous program courses. The student will be able to perform the tasks and duties of an entry level Surgical Technologist. Students will be additionally instructed on issues that arise before, during and after surgical intervention. student will be assigned to a clinical site in both the Sterile Processing Department and the Surgery Department. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in SURG TC 114 and SURG TC 116

1 Lecture Hour. 24 Lab Hours. 8 Credit Hours.

Offered at: MX

Surgical Technology 213 Clinical Practicum II

A clinical course designed to provide opportunities for the student to synthesize and apply the skills gathered in the previous program courses. The student will be able to perform the tasks and duties of an intermediate level Surgical Technologist. Students will be additionally instructed on issues that arise before, during and after surgical intervention. Students will take a more independent role during the surgical procedure. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in SURG TC 212.

1 Lecture Hour. 24 Lab Hours. 8 Credit Hours.

Offered at: MX

Surgical Technology 215 Exam Review & Professional Success

This course will prepare Surgical Technology students for the National Board of Surgical Technologists and Surgical First Assistants and will include participation in the national board exam at the end of the course. Students will develop resume building, interview skills, professional communication and oral presentation techniques. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in SURG TC 212 and concurrent enrollment in SURG TC 213.

2 Lecture Hours. 2 Credit Hours.

Offered at: MX

Surgical Technology 216 Sterile Processing Technology

This course is designed to present the basic concepts and principles for developing skills and competencies required for infection prevention and control in the sterile processing department in a health care facility. This course will offer knowledge in cleaning, disinfecting, decontamination, sterilization, Standard precautions, and Universal precautions. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Completion of English Composition 101 and consent of program director; and co-enrollment in Sterile Processing Tech Laboratory 0217 with Grade of C or better.

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: MX

Surgical Technology 217 Sterile Processing Technology Lab

This course is designed to provide clinical training and the application of principles required for infection prevention and control in the sterile processing department in a healthcare facility. This course will offer clinical experience in cleaning, disinfecting, decontamination, sterilization, Standard precautions, and Universal precautions. Writing assignments, as appropriate to the discipline,

Prerequisite(s): Completion of English Composition 101 and consent of program director; and co-enrollment in Sterile Processing Tech Laboratory 216 with a Grade of C or better.

12 Lab Hours. 4 Credit Hours.

Offered at: MX

Surgical Technology 218 Sterile Processing Clinical Practicum II

This course is designed to present the basic concepts and principles for developing skills and competencies required for infection prevention and control in the sterile processing department in a health care facility. This course will offer knowledge in cleaning, disinfecting, decontamination, sterilization, Standard precautions, and Universal precautions. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admissions to the Sterile Processing Technology program, OR Consent of Department Chairperson. Grade of C or better in SURG TC 216 AND SURG TC 217.

24 Lab Hours. 8 Credit Hours.

Offered at: MX

Surgical Technology 219 Professional Readiness

This course is designed to help the Sterile Processing Technology student transition into the professional role of Sterile Processing Technology. It includes preparation for employment, attaining certification, and maintaining certification status. This capstone course is an opportunity for students to demonstrate that they have achieved the goals for learning about sterile processing and professional readiness. The course is designed to assess cognitive, affective and psychomotor learning and to do so in a student-centered and student-directed manner which requires the command, analysis and synthesis of knowledge and skills. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission to the Sterile Processing Technology program, OR Consent of Department Chairperson. Grade of C or better in SURG TC 216 AND SURG TC 217. Concurrent Enrollment in SURG TC 218.

2 Lab Hours. 1 Credit Hour.

Offered at: MX

TECHNOLOGY 332 (0332)**Technology 332 400
Scaffold Safety**

General safety guidelines for constructing and dismantling scaffolds, including a review of local municipal and OSHA codes, rules and regulations. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 1 Credit Hour.

Offered at: KK

**Technology 332 401
Intro To Labor & Trade Occ**

This course will provide the student with information about trades and crafts related training programs, unions, and working conditions. Writing assignments, as appropriate to the discipline, are part of the course.

1-2 Lecture Hours. 1-2 Credit Hours.

Offered at: KK

**Technology 332 406
Construction Materials/Methods**

This course will provide the student with the information needed on construction materials and methods used in the construction of buildings. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Credit Hours.

Offered at: KK

**Technology 332 407
Quality Abatement Supervisor**

This course emphasizes the supervisory responsibilities required to safely remove hazardous materials as asbestos and lead. The course will provide instruction on potential health effects, personal protective equipments and information on such hazardous materials as asbestos, lead and mold; removal practices and procedures and other related safety and health concerns. Writing assignments, as appropriate to the discipline, are part of the course.

4 Lecture Hours. 4 Credit Hours.

Offered at: KK

**Technology 332 408
Environmental Safety Worker**

This course is designed to provide the student with the general knowledge for environment safety workers. It fulfills OSHA's requirements to perform class I and II work. Students will receive instruction on the potential health effects, personal protective equipment, background information on such hazardous materials as asbestos, lead, and mold; removal practices and procedures, and other safety and health concerns. Writing assignments, as appropriate to the discipline, are part of the course.

4 Lecture Hours. 4 Credit Hours.

Offered at: KK

**Technology 332 409
Construction Safety**

This course is intended to provide the student with a basic understanding of safety practices found in the construction industry. Emphasis will be placed upon those areas in construction that are most hazardous, using OSHA standards as a guide. Upon successful completion, students will be issued the OSHA construction safety and health 10-hour course completion card. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 0-3 Lab Hours. 1-2 Credit Hours.

Offered at: KK

**Technology 332 410
Interior Construction I**

This course will provide the student with the opportunity to practice and master the task required for entry level carpentry positions. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 9 Lab Hours. 4 Credit Hours.

Offered at: KK

**Technology 332 411
Interior Construction II**

This course will provide the student the opportunity to practice and master the installation and the finishing techniques of interior carpentry, which are required for entry level employment as a carpentry apprentice. Particular attention will be given to the installation of finish trim, doors, windows, flooring, hardware, ceilings, counters, cabinets and the finishing of woodwork and trim. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 9 Lab Hours. 4 Credit Hours.

Offered at: KK

**Technology 332 416
Exterior Construction I**

This course will present material and methods used in various types of concrete forming for building construction. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 9 Lab Hours. 4 Credit Hours.

Offered at: KK

**Technology 332 417
Exterior Construction II**

This course will focus on rough framing and exterior walls, stairs, porches, decks, roofs and dormers. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 9 Lab Hours. 4 Credit Hours.

Offered at: KK

**Technology 332 418
Exterior Construction III**

This course focus in on installation of banisters, fascia, siding, windows, doors, screens, gutters, downspouts, roofing materials, and other exterior trim. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 9 Lab Hours. 4 Credit Hours.

Offered at: KK

**Technology 332 419
Building Maintenance Math**

Basic principles of math with application relative to building maintenance and repair. Course content include: fractions, decimals, percents, measurements, ratios and proportions. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 1 Credit Hour.

Offered at: KK

**Technology 332 420
Carpentry Maintenance**

Basic carpentry skills used in building maintenance and repair. Course content includes: tools, safety, materials, doors, windows, walls, ceiling, and interior trim. Writing assignments, as appropriate to the discipline are part of the course.

1 Lecture Hour. 1 Credit Hour.

Offered at: KK

**Technology 332 421
Electrical Maintenance**

Basic electrical skills used in building maintenance and repair. Course content includes: troubleshooting, testing, repairing, and replacing faulty devices and controls. Use of electric test meters and devices will also be included. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 1 Credit Hour.

Offered at: KK

Technology 332 422 Plumbing Maintenance

Basic plumbing skills used in building maintenance and repair. Course content includes: troubleshooting, repairing, and replacing faulty plumbing and fixtures. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 1 Credit Hour.

Offered at: KK

Technology 332 424 Drywall & Interior Wood Trim

This course is designed to provide the student with the basic fundamentals of how to install drywall, apply tape and joint compound, sand to a smooth surface, as well as, install wood trim to baseboards, windows, and doors. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 9 Lab Hours. 4 Credit Hours.

Offered at: KK

Technology 332 425 Window and Door Installation

This course is designed to provide the student with the knowledge and skills required to install windows and doors. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 9 Lab Hours. 4 Credit Hours.

Offered at: KK

Technology 332 426 Intro To Concrete Masonry

This course provides an overview of concrete masonry trade, which includes the history and safety standards. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Technology 332 427 Masonry Tools & Equipment

This course is designed to provide the student with an overview of the types of tools and equipment used in the concrete masonry industry. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): C or better in 332 Engineering 426.

2 Lecture Hours. 2 Credit Hours.

Offered at: KK

Technology 332 428 Mortar

This course is designed to introduce students to mortar applications. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 3 Lab Hours. 3 Credit Hours.

Offered at: KK

Technology 332 429 Basic Math & Specifications

This course is designed to teach basic applications of mathematics pertinent to the trade. Emphasis will be placed on actual measurements and calculations, different types of specifications used in the building industry as related to the trade. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Credit Hours.

Offered at: KK

Technology 332 430 Masonry Installations Procedures

This course is designed to provide students the practical skills required to install masonry units. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): C or better in 332 Engineering 426-1

1 Lecture Hour. 6 Lab Hours. 3 Credit Hours.

Offered at: KK

Technology 332 431 Specifications & Building Code

This course will enable the student to adhere to established local codes and laws governing construction and rehabilitation of buildings; measure and estimate costs of labor, time and materials; develop written proposals for specific projects. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Credit Hours.

Offered at: KK

Technology 332 432 Basic Arc Welding

In this course, the student will concentrate and master basic welding skills and techniques. An overview of the safety rules and procedures will also be provided. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lab Hours. 1 Credit Hour.

Offered at: KK

Technology 332 434 Introduction To Plumbing

This course is designed to provide an overview of the plumbing trade which includes the history and safety and sanitation procedures. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Technology 332 435 Plumbing Tools & Equipment

This course is designed to provide the student with an overview of the types of tools and equipment used in the plumbing trades. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Credit Hours.

Offered at: KK

Technology 332 436 Plumbing Codes

This course is designed to introduce students to the regulations of Illinois Department of Public Health. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 1 Credit Hour.

Offered at: KK

Technology 332 437 Basic Plumbing Related Math

This course is designed to teach the basic application of mathematics pertinent to the plumbing industry. Emphasis will be placed on actual measurements and calculations of pipe and other fittings.

Prerequisite(s): Grade of C or better in 332TECH 434

1 Lecture Hour. 1 Credit Hour.

Offered at: KK

Technology 332 438 Intro To Fire Protection

This course is designed to provide an overview of the fire protection and sprinkler trade. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Technology 332 439 Home Plumbing System

This course is designed to provide an overview of the plumbing systems within a home. Those systems include: waste, vent and water piping. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 6 Lab Hours. 4 Credit Hours.

Offered at: KK

Technology 332 441 Flooring/Floor Covering

This course will instruct the student in safety precautions for working with adhesives and mastic; safety operation of equipment, and installation of carpeting/padding, as well as the replacement of damaged tiles. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Credit Hours.

Offered at: KK

Technology 332 442 Introduction To Bricklaying

This course is designed to provide an overview of the bricklaying trade, which includes its history and safety standards. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Technology 332 443 Bricklaying Tools & Equipment

This course is designed to provide the student with an overview of the tools and equipment used in the bricklaying industry. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 332 Engineering 442-1

2 Lecture Hours. 2 Credit Hours.

Offered at: KK

Technology 332 444 Bricklaying Installation Procedures

This course is designed for students to develop and practice the skills and techniques required in bricklaying. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 332 Engineering 442.

1 Lecture Hour. 6 Lab Hours. 3 Credit Hours.

Offered at: KK

Technology 332 445 Introduction to Electrical Theory

Offers a general introduction to Ohm's law, the National Electrical Code and general procedures. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 1 Credit Hour.

Offered at: KK

Technology 332 446 Foundations and Flatwork

This course is designed to teach basic forms for continuous, grade beam concrete footings including edge forms used for slabs and other structures. Theory and hands-on application are emphasized through the completion of the course. Writing assignments, as appropriate to the discipline, are part of the course.

2-3 Lecture Hours. 1 - 3 Credit Hours.

Offered at: KK

Technology 332 447 Materials

This course is designed to describe uses of work materials and grading systems. The course will also describe various kinds metals, fasteners, and adhesive used for

roadwork carpentry. Theory and hands-on applications are emphasized through the completion of the course. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 1 Credit Hour.

Offered at: KK

Technology 332 448 Vocational Physical Training I

Vocational Physical Training focus on preparing students for the physical challenges that line worker careers require. Students learn the basic of nutrition and how what we eat fuels our bodies. Students will learn proper techniques to stretch, warm up and physically train. Emphasis is given to cardiovascular training as well as leg and upper body strength. Instructors work with students to overcome physical challenges and fears for basic pole climbing. Student must earn a "C" or better in course to advance to Vocational Physical Training II. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lab Hours. 1 Credit Hour.

Offered at: KK

Technology 332 449 Professional Development

This course is designed to provide the student with a basic understanding of the human relations skills necessary to obtain employment and succeed in a quality work environment. This course includes resume development, cover letter writing, job searching skills, networking skills, interviewing techniques, and post-interview skills. Additionally, this course helps students succeed while on the job by exposing students to current workplace trends, team building skills, customer and co-worker relations, attitude and motivation, stress management, and financial management and planning. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Credit Hours.

Offered at: KK

Technology 332 451 Plumbing

This course will enable the student to identify pipe fittings and standard plumbing symbols; install rough plumbing for bath and kitchen fixtures, and install water heating systems. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 9 Lab Hours. 4 Credit Hours.

Offered at: KK

Technology 332 452 Basic Electrical Theory

This class covers the theories behind basic electricity. The emphasis is on electron theory, magnetism, Ohm's Law, and circuitry. Alternating current concepts such as circuits with resistance, inductive and capacitive reactive circuits, and power factor correction are covered. Basic math skills are used. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Technology 332 453 Overhead Techniques & Projects I

This first semester discusses basic electric system layout from generator to electrical user and focuses on practical tasks and working concepts associated with electrical line work. Aerial climbing is introduced and practiced; power line equipment is used. Overhead distribution line design, specifications, and construction are part of this class. In this class, students learn basic rope knots, guying and anchoring techniques, electrical connectors, hand tools, and power tools. Additionally, students learn about single phase underground distribution concepts and metering principles. Student must earn a "C" or better to advance to Overhead Techniques and Projects II. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in MATH 107, ENGLISH 197, 332TECH448-1 and 449.

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: KK

Technology 332 458 Overhead Techniques & Projects II

In this second semester class, students learn about and use advanced levels of topics such as aerial climbing, rope knots and splices, electrical connectors, electrical test equipment, as well as hand and power tools. Students also learn basic hydraulic principles. Application and installation of various electrical apparatus in a lab environment is completed by the students. Overhead distribution structures are constructed, protective grounding is introduced and live line work such as rubber gloving and hot stick use (deenergized lines). Underground distribution (UD) equipment is introduced including cable terminating tools and cable locating equipment. Students will install and terminate UD cable, Three-phase concepts such as metering and UD are covered. The class covers various component pieces of electrical distribution equipment. The class is introduced to current prospective devices including automatic throw overs, high voltage fuses, sectionalizers and oil current reclosers. Students learn to identify various type switches and are introduced to step-type voltage regulators. Students practice safety concepts common to line workers. Students also identify and read distribution maps. A trencher/cable plow, trucks and other mobile equipment are used by the student. The student must earn a C or better in this course. Writing assignments, as appropriate to the discipline are part of the course.

Prerequisite(s): Grade of C or better in 332TECH 452 and 332TECH 453 and 462.

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: KK

Technology 332 459 Construction Safety and Rescue

This course is intended to provide the student with a basic understanding of safety practices found in the construction industry. The student will be provided specific instruction in Flagging and Cardiopulmonary Resuscitation (CPR). Emphasis will be placed upon those areas in construction that are the most hazardous, using OSHA standards as a guide. Upon completion, students will be issued the OSHA construction safety and health 10-hour course completion card. The student will be provided a basic knowledge of bucket truck and pole top rescue. Emphasis will be placed upon those areas in the electrical line worker profession. Student must earn a "C" or better in course to advance. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 332TECH 452, 453 and 462.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Technology 332 462 Vocational Physical Training II

Vocational Physical Training focuses on preparing students for the physical challenges that line worker careers require. Students will build upon the skills developed in Vocational Physical Training I. Students will learn how to select foods to provide optimum health and the best sources of energy. Students will learn how to read labels and how to use food to cleanse and maintain overall health. Students will build upon techniques for stretching, warming up and physical training. Student must earn a grade of C or better in course to advance to Vocational Physical Training III. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 332TECH 448.

2 Lab Hours. 1 Credit Hour.

Offered at: KK

Technology 332 463 Vocational Physical Training III

Vocational Physical Training focuses on preparing students for the physical challenges that line worker careers require. Students will build upon the skills developed in Vocational Physical Training II. Students will learn how to produce ideal body composition through food intake and how to balance other physical dimensions of self through physical activities. Students will learn advanced techniques to stretch, warm up and physically train. Student must earn a C or better to satisfy course and certificate completion. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 332TECH 462.

2 Lab Hours. 1 Credit Hour.

Offered at: KK

Technology 332 464 Power Equipment Operation I

This course provides instruction in preparation for obtaining a commercial driver's license. In addition, the class covers the operation and use of a variety of power equipment commonly used in the electric power industry including the use of bucket trucks, power take-off equipment, trailers, cable pullers and tensioners. Student must earn a grade of C or better in the course to advance. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in MATH 107, ENGLISH 197, 332TECH 448-1 and 449.

2 Lecture Hours. 1 Lab Hour. 2.5 Credit Hours.

Offered at: KK

Technology 332 465 Painting and Decorating

The focus of this course is on the finishing of exterior and interior surfaces by applying protective or decorative coating materials, such as paints, stains, lacquers and protection. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 3 Lab Hours. 2 - 3 Credit Hours.

Offered at: KK

Technology 332 466 Introduction to Painting

The course is designed to provide an overview of the painting and decorating trade, which includes the history of the industry, job ethics, and terminology utilized within the industry. Critical thinking employability skills will also be covered. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Credit Hours.

Offered at: KK

Technology 332 467 Introduction to Painting Tools

The course is designed to provide the student with an overview of the proper use and care of painting tools, equipment, selection, mixing, and application of materials used in painting. Emphasis will also be on safety practices and the storage and disposal of materials. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 3 Lab Hours. 2 Credit Hours.

Offered at: KK

Technology 332 468 Basic Taping

The course is designed to provide students with instruction in the preparation of surfaces of taping. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 3 Lab Hours. 2 Credit Hours.

Offered at: KK

Technology 332 469**Advance Plumbing/Pipefitting**

This course offers students the opportunity to increase their skills and knowledge in the plumbing industry. Course material covered will include art of pipe sizing, print reading, fitting allowance, code review, thermodynamics/pipe connection above and below grade. A review of the proper procedure for solving offset problems will also be covered. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 332TECH 434-1 or one year experience in the plumbing industry.

1 Lecture Hour. 6 Lab Hours. 3 Credit Hours.

Offered at: KK

Technology 332 470**Power Equipment Operations II**

This course is a continuation of 330TECH 464 to provide instruction in preparation for obtaining a commercial driver's license. In addition, the class covers the operation and use of a variety of power equipment commonly used in the electric power industry including the use of bucket trucks. Power take-off equipment, trailers, cable pullers and tensioners. Students must earn a grade of C or better in the course to advance. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Math 107, and English 197, and 332TECH 448, and 332TECH 449 and 332TECH 464.

2 Lecture Hours. 1 Lab Hour. 2.5 Credit Hours.

Offered at: KK

Technology 332 471**Exterior Repair & Remodeling**

This course will instruct the student to remove and replace doors and windows; install exterior hardware; install weatherization, insulation and roofing materials. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 9 Lab Hours. 4 Credit Hours.

Offered at: KK

Technology 332 481**Interior Repair & Remodeling**

This course will instruct students to make minor plaster repairs; install interior hardware; replace/repair damaged wood flooring, tile and other floor coverings; apply wallpaper, paints, and other coatings. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 9 Lab Hours. 4 Credit Hours.

Offered at: KK

Technology 332 491**Residential Electrical Wiring**

This course will instruct students in writing of various electrical configurations commonly found in residential systems. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 9 Lab Hours. 4 Credit Hours.

Offered at: KK

Technology 332 503**Gas Utility Training I**

Gas Utility Training I introduces students to the principles, processes, and sub-systems applicable to the safe construction and operation of natural gas distribution systems, for delivery of natural gas to end-use customers. Classroom and practical room training will ensure that students possess the necessary skills and knowledge to perform duties in an entry-level gas utility worker job classification. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 432CMGT 609 - Construction Safety II

5 Lecture Hours. 3 Lab Hours. 6 Credit Hours.

Offered at: KK

Technology 332 504**Gas Utility Training II**

Gas Utility Training II is a continuation of the Gas Utility Training I. The course expands upon the principles, processes, and sub-systems applicable to the safe construction and operation of natural gas distribution systems relative to the construction of mains and services, pressure regulator and meter installation/removal, excavation damage prevention, lockout/tagout and shutdown processes, and safe appliance light-up procedures. It includes an introduction to joining methods for various pipe component materials, such as compression fittings for plastic and ferrous materials. Classroom and hands-on training will ensure that students possess the necessary skills and knowledge to perform duties in a secondary level gas utility worker job classification. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 332TECH 503-Gas Utility Training I

4 Lecture Hours. 6 Lab Hours. 6 Credit Hours.

Offered at: KK

Technology 332 505**Gas Utility Training III**

This course provides students with knowledge of advanced processes for mains pipe facilities repair, installation, and abandonment. It also provides knowledge of advanced processes for service pipe work. Students also review the fundamentals of appliance light up and venting, and hazards associated with potential leak and ignition sources inside and outside of a structure. Classroom and hands-on training will ensure that students possess the necessary skills and knowledge to perform advanced duties associated with work on distribution piping systems by higher level gas utility worker job classifications. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 332TECH 504-Gas Utility Training II

2 Lecture Hours. 3 Lab Hours. 3 Credit Hours.

Offered at: KK

Technology 332 506**Gas Utility Training IV**

This course provides students with knowledge of advanced processes for gas service activation and other end-use activities. This course also provides students with additional safety related details for carrying out certain activities covered in Gas Utility Training III. Theory of operation of Class 1 and Class 2 pressure regulators is also covered. Students will learn the principles of operation and diagnosis of operational problems and applicable NFGC code requirements on the broad scope of end-use appliances. Excavation and trenching safety is covered in detail. Classroom and hands-on training will ensure that students possess the necessary skills and knowledge to perform advanced duties associated with work on gas service activation and end-use appliances and systems by higher level gas utility worker job classifications. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 332TECH 505-Gas Utility Training III

3 Lecture Hours. 3 Lab Hours. 4 Credit Hours.

Offered at: KK

Technology 332 509**Intro to Basic Arc Welding**

This course will concentrate and master basic welding skills and techniques. An overview of the safety rules and procedures will also be provided. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 12 Lab Hours. 2 - 6 Credit Hours.

Offered at: KK

Technology 332 510**Blueprint, Layout, & Fabrication**

Detail interpretation of welding print and fabrication, fabrication procedures as well as interpreting basic elements of a drawing or sketch. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Credit Hours.

Offered at: KK

Technology 332 515 Related Mathematics I

This course is designed to provide to the student those mathematical tools most often needed to solve trade related problems. The instruction includes a review of whole numbers, fractions, decimal, powers, roots, ratios proportions and percentages. Writing assignments, as appropriate to the discipline, are part of the course.

4 Lecture Hours. 4 Credit Hours.

Offered at: **KK**

Technology 332 516 Related Mathematics II

Continuation of Mathematics I. Topics include elementary algebraic operations, geometry and an introduction into trigonometry. Writing assignments, as appropriate to the discipline, are part of the course.

4 Lecture Hours. 4 Credit Hours.

Offered at: **KK**

Technology 332 518 Manufacturing Materials & Processes

An introduction to manufacturing materials, methods, and processes for drafting and design technicians is provided. Basic cold and hot working processes, used to join, form, weld, shape and cut materials to specified sizes, are also taught. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 1 Credit Hour.

Offered at: **KK**

Technology 332 520 Arc Welding

This course provides continued development of the basic skills for performing operations with mild steel plates. Student progress in welding from flat to vertical, down to horizontal, and to vertical up positions. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): C or better in 332ENGR 509.

2 Lecture Hours. 6 Lab Hours. 4 Credit Hours.

Offered at: **KK**

Technology 332 526 Welding Mathematics I

This course gives a student a review of basic mathematics as it pertains to layout and blueprint reading. The course covers decimals, fractions, and converting whole inches to millimeters. Writing assignments, as appropriate to the discipline, are part of the course.

1-2 Lecture Hours. 1-2 Credit Hours.

Offered at: **KK**

Technology 332 530 Advanced Welding

In this course students will concentrate and master advanced welding skills and techniques. An overview of safety rules and procedures will also be given. Writing assignments, as appropriate to the discipline, are part of the course.

4 Lecture Hours. 6 Lab Hours. 4 Credit Hours.

Offered at: **KK**

Technology 332 581 Concrete Framing

This course will acquaint the student with industry terminology, the tools used in the trade, and safety procedures. Instruction and demonstration will introduce the student to the application of footings, foundation walls, and slab, and stair construction. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 3 Lab Hours. 2 Credit Hours.

Offered at: **KK**

Technology 332 582 Residential Carpentry

Training consists of an orientation into the field of carpentry, industry terminology, and the discipline and the uses of tools of the trade. Students will receive hands-on training in the recognition and application of the materials used in residential structures. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 3 Lab Hours. 2 Credit Hours.

Offered at: **KK**

Technology 332 583 Basic Hand Tools

This course is designed to introduce students to the operation and safe use of various types of hand tools. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Credit Hours.

Offered at: **KK**

Technology 332 715 Intro to Hand and Power Tools

This course will enable the student to identify, maintain, and illustrate proper handling and care of the various hand and power tools. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 6 Lab Hours. 1 - 3 Credit Hours.

Offered at: **KK**

Technology 332 767 Blueprint Reading I

Introduce students to construction blueprints and specifications. Emphasis on how to read and understand all types of working drawings used in the construction industry. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Credit Hours.

Offered at: **KK**

Technology 332 768 Blueprint Reading II

Continuation of Blueprint Reading I. This course will further develop the student's ability to interpret drawings of intermediate and advanced complexity related to actual trade projects. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Credit Hours.

Offered at: **KK**

Technology 332 769 Blueprint Reading III

3 Lecture Hours. 3 Credit Hours.

Offered at: **KK**

THEATER ART (0099)

Theater Art 129 Intro To Theater History

Introduction to theater history from its origins to the present including theatrical styles and literature. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: **KK TR WR**

Theater Art 130**Stagecraft**

Introduces safety procedures and basic techniques of scenery and property construction, tool use, scene painting, and backstage organization. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK WR

IAI: TA 911

Theater Art 131**Intro To Theater**

Introduction to Theater is a survey of theater, including basic elements and principles of production, styles, and historical perspectives of theater, dramatic literature, and criticism. Writing assignment, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK MX HW WR

IAI: F1 907 GE: Fine Arts

Theater Art 132**Theater Production, Direction & Management**

Production and direction of plays; experience in play selection, theater organization, scheduling, audience analysis, box office and record keeping, and publicity. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: KK MX TR HW WR

Theater Art 133**Acting I**

Acting techniques, stressing exercises, improvisations, prepared and general acting situations; theories of method and technical methods explained and presented; survey of acting styles. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK MX OH TR HW WR

IAI: TA 914

Theater Art 134**Theater Diversity in the U.S.**

Examination of various dramatic expressions that reflect the experience and construction of racial or cultural minority identity in the United States. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK OH TR HW WR

IAI: F1 909D GE: Fine Arts HD Course

Theater Art 135**Theater and Special Projects**

Special project permitting independent research and/or study, includes writing of a play or design and execution of a costume or a special and unusual unit of scenery. Not more than three hours of credit counted toward graduation. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 1 Credit Hour.

Offered at: KK HW

Theater Art 136**Stage Make-up**

This course is an introduction to the basic techniques and philosophies concerning the effective application of theatrical makeup. The objective of the course is to give the student a practical, working knowledge of the principles of highlighting,

shadowing, and contouring the human face with makeup in a workshop environment. Explorations into the basic techniques involved in working with crepe hair, and various three-dimensional processes shall also be undertaken.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: KK OH TR HW WR

Theater Art 137**Stage Lighting**

Comprehensive study of theory and technique of lighting for the theater; use of all instruments and dimming controls, work on sound in theater. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK WR

Theater Art 138**Topics In Theatre**

Special survey courses introducing employment opportunities and procedures in theatre. Writing assignments, as appropriate to the discipline, are part of the course. Course runs in a rotation of 3 topics. Courses may be repeated for a total of 3 credit hours.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Theater Art 140**Sound For Theatre**

Comprehensive Study of theory and technique of sound and sound engineering; use of all instruments amplification and recording equipment. Writing assignments as appropriate to discipline are part of the course.

Prerequisite(s): Grade of C or better in Math 118.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Theater Art 141**Costumes And Wardrobe**

Introduces theory of costume design, focusing on safety procedures and basic techniques of costume and accessory construction, tool use, fitting and draping, and costume shop organization through projects in cutting, stitching, and finishing costumes for production. Writing assignments as appropriate to discipline are part of the course.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Theater Art 143**Acting Workshop**

Practical workshop in performance styles, stage techniques, timing, scene study and improvisations; students will cooperate in class-produced one-act plays. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: KK HW

Theater Art 144**Practice In Modern Theater**

Workshop in production of modern plays; readers theater methods will be used in total concept of modern theater production; less emphasis on detail than in Theater Art 143. Writing assignments, as appropriate to the discipline, are part of the course.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: KK

Theater Art 225 Independent Internship Assignment

A course of planned and supervised training that allows the application of theory to actual practice, preparing a student for working independently toward specific career objectives. It takes place at a regular theatre related worksite and instructions/supervision is provided by an employee at the worksite. Students may receive regular pay scale if allowed and if available. Course includes on-campus one-hour weekly seminar. Writing assignments as appropriate to discipline are part of the course. Allowed Repeatable Course: Not more than an accumulated 12 credit hours will be counted toward graduation.

Prerequisite(s): Consent of Department Chairperson.

1-2 Lecture Hours. 10-20 Lab Hours. 3-6 Credit Hours.

Offered at: KK

Theater Art 230 Stage Management

Practice in stage management. Students will work with scenes and plays as a stage manager, will operate special sound effects and recording equipment, and will make a complete sound track for a play. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Theater Art 131, or Consent of Department Chairperson.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: KK WR

Theater Art 232 Theater Workshop

Participation in production of one-act and full length plays with class, operated as a theater company; students will work in all phases of theater including touring theater, acting, directing, and other areas of theater as a full company experience. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK TR

Theater Art 233 Theater Design

Scene design including preparation of plans, scale models and ground plans; history of design; project: full design for play currently produced in the theater. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK WR

Theater Art 235 Acting II

A continuation of Acting I with an emphasis on an intensive approach to acting exercises, improvisation and scene study. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Theater Art 133 OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK OH TR HW WR

Theater Art 236 Voice And Movement

The study of using voice and movement to interpret and perform works of literature, such as essays, letters, novels, poetry, and short stories, with an emphasis on communicating that interpretation to an audience. Writing assignments as appropriate to discipline are part of the course.

Prerequisite(s): Grade of C or better in (Theater Art 133 OR Theater Art 134).

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Theater Art 237 Theatre Production & Management

Production and management of plays and theatres; survey of theatre and production organization, scheduling audience analysis, box office operation, record keeping and publicity. Writing assignments as appropriate to discipline are part of the course.

Prerequisite(s): Grade of C or better in Math 118 and Theater Art 230, or Consent of Department Chairperson.

3 Lecture Hours. 2 Lab Hours. 4 Credit Hours.

Offered at: KK

Theater Art 240 Play Production

A literary exploration of the relationships between dramatic text and the play in performance, with special emphasis on basic terminology and methodology. Representative plays are studied in their genre, historical, and social contexts. Writing assignments as appropriate to discipline are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Theater Art 242 Improvisational Theater Workshop

Theory and practice of improvisational acting techniques; development of scripting in the moment, development of character and styles; designing and performing an improvisational show. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK TR HW WR

Theater Art 252 Children's Theater Workshop

The students will participate in a production of a play for children. The class will operate as a theater company and students will work in all phases of theater including acting, directing, stage managing and producing as a full company experience. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: WR

VISUAL COMMUNICATIONS (0009)

Visual Communications 101 Intro to Visual Communications

Introduction to the visual communications industry through the application of industry-standard software and essential skills, concepts, and design techniques. Digital image editing, illustration, page layout and the processes in each will be discussed. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Visual Communications 102 Website Design I

Basic procedures in preparing website design and production; includes web code techniques, color theory, typography and composing style sheets and photo layout. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Visual Communications 104 Digital Photography

Basic study of the industry and practice of photography using the digital camera. Topics include basic camera operations and techniques, portraits, lighting, and post-production techniques such as editing and retouching. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Visual Communications 110**Digital Production**

A study of the digital prepress and print production procedures for commercial printing; includes planning and problem solving in layout and design, desktop publishing, digital imaging, proofing and digital print work. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in VIS COM 101, 104, 122 and 224.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Visual Communications 122**Graphic Software**

This course is designed to familiarize the student with hardware and software used in the visual communication industry. Software includes Adobe Illustrator, Photoshop, In design and other computer graphic software used for page layout design. Emphasis on the study and use of computer hardware equipment as: Monitors, keyboards, scanners, printers and digital cameras, etc. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated six credit hours will be counted towards graduation.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK

Visual Communications 132**Publication Design**

A study of digital publication design and digital prepress production with emphasis on planning and problem-solving in layout and desktop, desktop publishing, digital imaging, proofing and digital print work. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated six credit hours will be counted towards graduation.

Prerequisite(s): Grade of C or better in VIS COM 101

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Visual Communications 134**Logo Identity Design**

Basic study of logo design, branding, and corporate identity. Emphasis is placed on actual creation, design briefs, the research of companies, concepts, the use of symbols, typography, wordmarks, and imagery, and how each culminate into a unique identity for a business or institution. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated six credit hours will be counted towards graduation.

Prerequisite(s): Grade of C or better in VIS COM 101, 122, AND 224.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Visual Communications 150**Graphic Design I**

An introductory course on the foundations, principles and elements of graphic design. Students will utilize industry-standard professional graphics software to explore various concepts in visual communication for both print and electronic media. Industry terminology and practices will be presented with an emphasis on problem-solving and the design process. Students will apply the theories of graphic design to produce various deliverables such as corporate identity, advertising and brochures. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in VIS COM 101, Art 144, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Visual Communications 201**Design Management**

The study of design management practices in the visual communication industry: Sales, marketing, strategic planning, graphic production, job cost, services, studio layouts, purchasing, inventory control, staff positions/management and proposal writing. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Visual Communications 202**Website Design II**

Focus on website design and production; Includes web code techniques, color theory, typography and composing style sheets and photo layout. Explores animation on the web using current web publishing software applications. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in VIS COM 102, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Visual Communications 212**Motion Graphics I**

Basic study of animation using industry-standard vector software to create motion, including animated shorts, information graphics, and multimedia presentations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in VIS COM 101

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Visual Communications 213**Motion Graphics II**

This course is a continuation of the study of motion graphics with an interest in commercial applications using industry-standard software. Topics include motion graphics principles, design and composition, timing, storyboarding and planning, visual storytelling, sound and music development, and synchronization. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in VIS COM 212 (Course ID# 000102) or Consent of Department Chairperson

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Visual Communications 224**Digital Typography**

This course is designed to familiarize the student with the computer hardware and software application used in the visual communication industry. Emphasis on the study of typography font design, specification, effects and copy fitting. Also, a study of the historical developments of typography from ancient to modern times will be studied. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated six credit hours will be counted towards graduation.

Prerequisite(s): Grade of C or better in VIS COM 101, Art 144, or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Visual Communications 250**Graphic Design II**

An intermediate course on the principles and elements of graphic design with a focus on three-dimensional design such as packaging and environmental design such as merchandising displays and signage. Students will also be introduced to the concepts of brand development and target marketing for the retail environment. Students will utilize industry-standard professional graphics software to explore appropriate concepts in visual communication. Industry terminology and practices will be presented with an emphasis on problem-solving and the design process. Students will apply the theories of graphic design to produce various deliverables such as packaging, point-of-purchase displays, signage and other 3-dimensional designs. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in VIS COM 150

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Visual Communications 290**Practicum Internship**

This course is designed to provide the student with further academic support while completing the Visual Communications practicum internship to gain experience in the field. On-the-job strategies, furthering student's design education and training, seminars for career development as well as other topics that are career-related will be discussed. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated six credit hours will be counted towards graduation.

Prerequisite(s): Completion of the Visual Communications curriculum or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

Visual Communications 298**Design Studio**

This capstone class prepares students for the visual communications industry, including the study of design and the design business: sales, marketing, strategic planning, production, estimating, services, studio layouts, staff positions, management and proposal writing. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Completion of the Visual Communications curriculum or Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: KK

ZOOLOGY (0029)**Zoology 211****General Zoology**

Fundamental principles of animal morphology, physiology, genetics, and ecology. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: OH TR

GE: Life Sciences

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City Colleges of Chicago does not discriminate on the basis of race, color, national origin, ethnicity, gender, age, religion, citizenship, sexual orientation, marital status, disability, veteran status, genetic information, pregnancy, membership or lawful participation in the activities of any organization, or the exercise of rights guaranteed by local, state, or federal law with respect to hire, terms and conditions of employment, continued employment, admissions, or participation in Board programs, services, or activities as required by Title IX of the Educational Amendments of 1972, the Americans with Disabilities Act of 1990 and the Amendments Act, Section 504 of the Rehabilitation Act of 1973, Title VI or Title VII of the Civil Rights Act of 1964, and other applicable statutes and City Colleges of Chicago policies. The EEO Office is responsible for investigating and responding to equal opportunity concerns, including sexual harassment, of CCC employees, applicants for employment, students or applicants for admission or any other person.

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Complaints must be in writing and filed within 180 days of the discriminatory or harassing act. All complaints must be directed to the EEO Office in the Office of Human Resources and Staff Development at 226 W. Jackson Boulevard, 12th Floor, Chicago, Illinois 60606, or at eeofficer@ccc.edu. For information regarding the EEO Policy and procedures, please contact the EEO Office at (312) 553-2865.

The complete text of the District's non-discrimination policy is contained in the Student Policy Manual. Copies of the City Colleges of Chicago Equal Opportunity Complaint Procedures and the Discrimination Complaint Form are available in the District Office, Office of Human Resources at the above address, and in the Personnel Office at each of the seven City Colleges of Chicago locations. CCC's non-discrimination policies, and complaint procedures and form are also available on the CCC website at [www.ccc.edu/departments/Pages/Equal-Opportunity-Office-\(EEO\).aspx](http://www.ccc.edu/departments/Pages/Equal-Opportunity-Office-(EEO).aspx).

Prohibition Against Retaliation and Intimidation

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ADDENDUM CONTENTS

This March 2019 Catalog Addendum only contains information for programs and courses that are new or have been revised since the initial publication of the 2018-2019 Academic Catalog in August 2018.

The previous program requirements and course descriptions remain intact in the preceding pages.

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Credit Program Requirements for New or Recent RevisionsA2
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For the convenience of readers, this Catalog is enabled with interactive bookmarks that navigate to tagged pages and sections when clicked. To utilize this function, open the Catalog in a PDF-compatible application such as Adobe Reader or Adobe Acrobat and the Bookmarks panel should open automatically.

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ARCHITECTURE

Associate in Applied Science (0122)

The Associate in Applied Science degree in Architecture prepares students for employment as a draftsman or detailer with an architecture or design firm or as a contractor, material supplier or with a construction company. Completion of the degree also leads to the further study of architecture and related fields at several transfer destinations.

For more info on the Associate in Applied Science degree in Architecture, please visit www.ccc.edu/programs/Pages/Architectural-Drafting-Associate-in-Applied-Science.aspx.

General Education Coursework 15 Credit Hours

English (0035)

101 Composition I	3
Mathematics/Science	3
Humanities or Interdisciplinary Humanities.....	3
Social & Behavioral Sciences.....	3
Additional General Education Course	3

At least one course must meet the Human Diversity (HD) requirement.

Required Program Core 52 Credit Hours

Architecture (0005)

104 History of Architecture I.....	3
105 History of Architecture II.....	3
110 Architectural Sketching	2
121 Basic Design Studio.....	4
122 Intermediate Design Studio.....	4
123 Advanced Design Studio.....	4
166 Architectural Design I.....	4
170 Digital Lab I.....	3
171 Digital Lab II	3
172 Digital Lab III	3
202 Construction I.....	4
204 Construction II.....	4
220 Portfolio Development.....	2
266 Architectural Design II.....	4

Mathematics (0045)

140 College Algebra AND.....	4
141 Plane Trigonometry OR	3
143 Precalculus OR.....	6
204 Calculus for Business and Social Science OR.....	5
207 Calculus and Analytic Geometry I OR	5

Minimum of 5 credit hours required for the Math requirement

Total Program Credit Hours 67 Credit Hours



PROGRAM OFFERED AT:

ART (STUDIO)**Associate in Fine Arts (0216)**

The AFA degree offers courses required for transfer to a four-year institution for students majoring in art (studio), music education, or music performance. Completion of the AFA degree does not fulfill the requirements of the Illinois Transferable General Education Core Curriculum (IAI GECC). A student must complete the general education requirements of the college or university to which they transfer.

For more info on the Associate in Fine Arts degree in Art (Studio), please visit [www.ccc.edu/programs/Pages/Associate-in-Fine-Arts---Art-\(Studio\).aspx](http://www.ccc.edu/programs/Pages/Associate-in-Fine-Arts---Art-(Studio).aspx).

General Education Coursework 31 Credit Hours

English (0035)

101 Composition I	3
102 Composition II	3

Speech (0095)

101 Fundamentals of Speech Communication	3
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Mathematics (0045)

118 General Education Mathematics OR	4
125 Introductory Statistics	4

Physical & Life Sciences

Minimum one course each in Physical & Life Sciences; one course must be a lab.

2 courses	6
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Social & Behavioral Sciences

2 courses	6
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Fine Arts & Humanities

2 courses	6
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One course must fulfil the Humanities or Interdisciplinary Humanities GECC requirement.

One course from Social and Behavioral Sciences or Fine Arts and Humanities must fulfill the Human Diversity (HD) requirement

Required Program Core 21 Credit Hours

Art (0010)

131 General Drawing	3
132 Advanced General Drawing	3
142 Figure Draw and Composition	3
144 Two-Dimensional Design	3
145 Three-Dimensional Design	3

Fine Arts (0042)

107 History of Architecture, Painting, and Sculpture I	3
108 History of Architecture, Painting, and Sculpture II	3

Program Electives**9 Credit Hours**

Students must select a minimum of 9 credit hours from the following courses:

Art (0010)

113 Beginning Digital Photography	3
115 Photography	3
116 Advanced Photography	2
117 Beginning Color Photography	2
126 Printmaking I	3
127 Printmaking II	3
143 Advanced Figure Drawing	3
163 Watercolor Painting	3
166 Oil Painting Techniques	3
167 Advanced Oil Painting Techniques	3
196 Ceramics	3
197 Advanced Ceramics and Sculpture	3
198 Sculpture I	3
275 Computer Art and Applications	3

Total Program Credit Hours 61 Credit Hours

PROGRAM OFFERED AT:   

**CHILD DEVELOPMENT: PRE-SCHOOL
EDUCATION INFANT/TODDLER****Advanced Certificate (0286)**

The Advanced Certificate program in Child Development: Pre-school Education Infant/Toddler prepares students for employment in center or home-based programs that provide daycare for infants and toddlers. The study of child development theory and skills is necessary for those interested in becoming “nannies” or live-in infant and childcare providers.

For more info on the Advanced Certificate in Child Development: Pre-school Education Infant/Toddler, please visit www.ccc.edu/programs/Pages/Child-Development---Pre-school-Education-Infant-Toddler-Advanced-Certificate.aspx.

Required Program Core 23 Credit Hours

Child Development (0090)	
101 Human Growth and Development I*	4
107 Health, Safety, and Nutrition	3
109 Language and Literacy Development in Early Childhood	3
120 Introduction to Early Childhood Education Group Care of Children	3
142 Methods and Materials for Infant and Toddler Care	3
201 Observation, Assessment, and Documentation to Support Young Children and Families*	3
248 Principles and Practice of Infant and Toddler Care	4

*Requires completion of clinical experience/observation hours

Required Work-Based Learning Courses**6 Credit Hours**

Child Development (0090)	
259 Practicum in Pre-school**	6

**Course is held in school-age setting

Program Electives 3 Credit Hours

Child Development (0090)	
230 Introduction to Early Intervention OR	3
262 Child, Family, and Community Relations	3

Total Program Credit Hours 32 Credit Hours

PROGRAM OFFERED AT:

**COMPUTER NUMERIC CONTROL
MACHINING****Advanced Certificate (0725)**

The Advanced Certificate program in Computerized Numeric Control Machining is designed for the study of the basic principles of machine tool technology incorporating basic computer applications to the manufacturing industry, including CNC programming and computer integrated manufacturing (CAD/CAM).

For more info on the Advanced Certificate in Computer Numeric Control Machining, please visit [www.ccc.edu/programs/Pages/Computer-Numeric-Control-\(CNC\)-Machining-Advanced-Certificate.aspx](http://www.ccc.edu/programs/Pages/Computer-Numeric-Control-(CNC)-Machining-Advanced-Certificate.aspx).

Required Program Core 37 Credit Hours

English (0035)	
101 Composition I	3
Mathematics (0045)	
125 Introductory Statistics	4
Manufacturing Tech TC1 (0340)	
111 Machining Processes I	3
112 Machining Processes II	3
123 CNC Milling Operations and Programming	3
137 CNC Turning Operations and Programming	3
138 Introduction to SolidWorks	3
139 Print Requirements: Quality Assurance	3
140 CNC Fundamentals	3
143 Advanced Metrology	3
207 Introduction to MASTERCAM	3
Choice of:	
144 Wire Electrical Discharge Machining OR	3
147 Multi Axis Machining	3

Total Program Credit Hours 37 Credit Hours

PROGRAM OFFERED AT:



MANAGEMENT/MARKETING**Associate in Applied Science (0021)**

The Associate in Applied Science degree program in Management/Marketing is the study of basic business skills along with more in-depth study in a chosen field such as management, marketing, or entrepreneurship. Completion of the program can lead to employment as assistant, trainee, supervisor, or manager in manufacturing, merchandising, service firms, or government service. The program also prepares graduates to start a business or improve the operations of a business that currently exists.

For more info on the Associate in Applied Science degree in Management/Marketing, please visit www.ccc.edu/programs/Pages/Management--Marketing-Associate-in-Applied-Science.aspx

General Education Coursework 15 Credit Hours

English (0035)

101 Composition I 3

Speech (0095)

101 Fundamentals of Speech Communication 3

Fine Arts and Humanities course 3

Mathematics or Science course 3

Social and Behavioral Sciences courses 6

At least one course must meet the Human Diversity (HD) requirement.

Required Program Core 22 Credit Hours

Business (0030) OR Mathematics (0045)

141 Business Mathematics OR 3

118 General Education Mathematics OR higher 4

Sociology (0089)

201 Introduction to the Study of Society 3

Business (0030)

111 Introduction to Business 3

181 Financial Accounting 4

231 Marketing 3

269 Principles of Management 3

Choice of:

211 Business Law I OR 3

212 Business Law II OR 3

214 The Legal and Social Environment of Business 3

Program Electives 24 Credit Hours

Students must select eight courses from the following courses:

Cooperative Work Experience (0008)

105 Business Technologies CWE 3

205 Business Technologies CWE 3

Business (0030)

161 Principles of Banking Operations 3

180 Fundamentals of Accounting 3

182 Managerial Accounting 4

183 Payroll Accounting 3

203 Introduction to Cost Accounting 3

204 Computer Applications Inter. Accounting 1

206 Auditing 3

208 Federal Income Tax 3

213 Data Visualization and Presentation for Business 3

216 Entrepreneurship 3

221 Insurance 3

232 Fundamentals of International Business 3

237 Selling 3

250 Computerized Accounting Systems 3

263 Property & Liability Insurance 3

264 Personal Insurance 3

265 Commercial Insurance 3

271 Human Resources Management 3

272 Sales Management 3

273 Organizational Behavior 3

278 Compensation & Benefits Administration 3

279 Human Resource Planning & Staffing 3

281 Corporate Organizations: Understanding Business Procedures 3

284 Business Communications 3

291 Leadership 3

Computer Information Systems (0032)

101 Computer Science 101 3

111 Computer Operations 3

116 Operating Systems I 3

120 Introduction to Microcomputers 3

123 Microcomputer Spreadsheets 3

145 Database Management 3

158 Web Development I 3

Cyber Security (0162)

102 Information Security Essentials 3

231 Internetworking Security 3

Networking Technologies (0165)

101 Client Server Database I 3

121 Internetworking I 3

122 Internetworking II 3

Total Program Credit Hours 61 Credit Hours

PROGRAM OFFERED AT:



PARALEGAL**Associate in Applied Science (0304)**

The Associate in Applied Science degree in Paralegal prepares students with the skills to become highly trained paralegals to meet the needs of corporations, law firms and offices, and other sectors where law-related work is performed. Program completion can lead to employment in any area where law-related work is conducted. Paralegals may not provide legal services directly to the public, except as permitted by law. The program is approved by the American Bar Association at Wright College.

For more info on the Associate in Applied Science degree in Paralegal, please visit www.ccc.edu/programs/Pages/Paralegal-Associate-in-Applied-Science.aspx

General Education Coursework 24 Credit Hours

English (0035)

101 Composition I	3
102 Composition II	3

Speech (0095)

101 Fundamentals of Speech Communication	3
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Fine Arts & Humanities courses 6

Social & Behavioral Sciences courses 6

General Education Human Diversity course..... 3

Required Program Core 30 Credit Hours

Business (0030)

147 Introduction to Paralegal Studies	3
148 Civil Litigation	3
149 Family Law	3
150 Legal Research and Writing I	3
219 Real Estate Law for the Paralegal.....	3
222 Business Law for the Paralegal.....	3
223 Tort Law	3
224 Wills, Trusts, and Probate	3
225 Legal Research and Writing II.....	3
238 Legal Ethics	3

Program Electives**6 Credit Hours**

Students must select a minimum of 6 credit hours from the following courses; one of the courses must be Business 226 or Business 240.

Business (0030)

220 Criminal Law for the Paralegal.....	3
226 Internship for Paralegals	3
227 Elder Law.....	3
229 Immigration Law	3
239 Business Organization and Agency Law	3
240 Computers in the Law Office.....	3

Total Program Credit Hours 60 Credit Hours

PROGRAM OFFERED AT:



KEY	DA	KK	MX	OH	TR	HW	WR
	Richard J. Daley College	Kennedy-King College	Malcolm X College	Olive-Harvey College	Harry S Truman College	Harold Washington College	Wilbur Wright College
IAI	GE		HD Course		College Code		
Course is approved at one or more colleges for the Illinois Articulation Agreement (IAI).	Course satisfies a General Educaiton (GE) requirement based on the category listed and program requirements.		Course staisfies the Human Diversity (HD) requirement for degree programs.		Indicates where the course is approved to be offered. Refer to the semester credit scheudles for course availability.		

ART (0010)**Art 145****Three Dimensional Design**

Study of the fundamentals of the formal systems and basic elements of visual organization through three-dimensional design principles and theories; use of a variety of media, including recent and traditional materials, such as clay and plaster. Writing assignments, as appropriate to the discipline, are part of the course.

6 Lab Hours. 3 Credit Hours.

Offered at: DA OH TR HW WR

IAI: ART 908

BUSINESS (0030)**Business 238****Legal Ethics for the Paralegal**

This course is an elective in the Paralegal AAS program/plan 304. It provides the student with an overview of ethical considerations arising in the paralegal profession. This course discusses the regulation and discipline of attorneys and paralegals, issues related to confidentiality and conflicts of interest, unauthorized practice of law and other ethical issues that pertain particularly to paralegals. Students will discuss general ethical considerations and will work directly with the Illinois Rules of Professional Conduct. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and eligibility for Math 118 or higher or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: HW WR

CHEMISTRY (0073)**Chemistry 121****Basic Chemistry I**

Principles of general inorganic chemistry, including properties of matter, dimensional analysis, fundamentals of stoichiometry, interpretation of the periodic table, nomenclature and introduction to solution chemistry and commonly used concentration units. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 and eligibility for Math 118 or higher or Consent of Department Chairperson.

2 Lecture Hours. 5 Lab Hours. 4 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: P1 902L GE: Physical Sciences

DENTAL HYGIENE (0100)**Dental Hygiene 112****Concepts of Preventive Therapy I**

Orientation to the profession of dental hygiene and the role of the dental hygienist as a clinician. Emphasis on communication skills, introduction to the foundation of dental hygiene terms, concepts, and practice. Writing assignments as appropriate to the discipline are a part of the course.

Prerequisite(s): Admission to the Dental Hygiene Program/Plan 222.

2 Lecture Hours. 2 Credit Hours.

Offered at: MX

Dental Hygiene 121**Principles of Dental Hygiene I Lecture**

Introduction to concepts, and pre-clinical skills used during the assessment and implementation phases of the dental hygiene process of care. Concepts and procedures will be systematically presented during the lecture component of the class and applied in the pre-clinical laboratory setting. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admissions into the Dental Hygiene Program and Successful completion of DENTHYG 112

2 Lecture Hours. 2 Credit Hours.

Offered at: MX

Dental Hygiene 122**Principles of Dental Hygiene II Lecture**

A lecture course which discusses additional concepts used during the assessment, planning, implementation, evaluation, and documentation phases of dental hygiene process of care. Management of medical emergencies will also be covered. Writing assignments, as appropriate to the discipline, are a part of the course.

Prerequisite(s): Grade of C or better in DENTHYG 121 and DENTHYG 123

2 Lecture Hours. 2 Credit Hours.

Offered at: MX

Dental Hygiene 124**Principles of Dental Hygiene II Lab**

A clinical companion course to DH 122. Emphasis on the assessment, planning implementation, evaluation, and documentation phases of the dental hygiene process of care. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in DENTHYG 121 and DENTHYG 123 and concurrent enrollment in DENTHYG 122

9 Lab Hours. 3 Credit Hours.

Offered at: MX

Dental Hygiene 131
Oral Structures & Function

A study in oral histology and dental anatomy to include an understanding of the developmental, anatomical, functional and morphological aspects of adult and deciduous dentition and related structures.

Prerequisite(s): Admission to the Dental Hygiene program/plan 222 and Grade of C or better in Biology 226, and Biology 227, and Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Dental Hygiene 132
General/Oral Pathology and Diagnosis

A survey of general and oral pathology with emphasis on diseases and their manifestations in the oral cavity. Recognition and detection of such deviations from normal are based on the clinical signs and symptoms, and an introduction to the art of differential diagnosis of lesions occurring in and out the oral cavity. Attention is directed to the discussion of pathology, history, radiographic and clinical appearance, prognosis and treatment. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in DENTHYG 131 and 133.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

Dental Hygiene 133
Head And Neck Anatomy

This course consists of lectures, readings, study of models and pro-section that will introduce the student to the gross anatomical structure and function of the human head and neck including the face, oral cavity, and deep structure of the face. Topics in embryology will be discussed. Implications and correlations will be discussed. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admissions into the Dental Hygiene Program

2 Lecture Hours. 2 Credit Hours.

Offered at: MX

Dental Hygiene 135
Concepts of Preventive Therapy II

Continuation of Preventive Therapy I with emphasis on caring for the child, adolescent and medically compromised patient. Concepts of oral disease prevention and management will be discussed. Writing assignments as appropriate to the discipline is part of the course.

Prerequisite(s): Grade of C or better in DENTHYG 112

1 Lecture Hour. 1 Credit Hours.

Offered at: MX

Dental Hygiene 200
Summer Clinic

A combined lecture and clinical course. Concepts presented in lecture will be applied to the clinical setting. Emphasis is placed on the development of critical thinking and instrumentation skills. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Dental Hygiene 122 and Dental Hygiene 124.

1 Lecture Hour. 6 Lab Hours. 3 Credit Hours.

Offered at: MX

Dental Hygiene 235
Community Dental Health I

An introduction to the current principles and issues in community health and their relationship to the delivery of dental care to the public sector; assessing, developing, planning, implementing and evaluating a community dental health program; utilization of health care services, health care financing and health care delivery will also be discussed. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission to the Dental Hygiene Program/Plan and Consent of Department Chairperson.

2 Lecture Hours. 2 Credit Hours.

Offered at: MX

Dental Hygiene 251
Clinical Dental Hygiene I

A combined lecture and clinical course. Emphasis is placed on the dental hygiene process of care for patients with special needs, and implementation of advanced clinical techniques. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Dental Hygiene 200.

1 Lecture Hour. 12 Lab Hours. 5 Credit Hours.

Offered at: MX

Dental Hygiene 252
Clinical Dental Hygiene II

A combined lecture and clinical course. Emphasis is placed on preparing students for their clinical licensing examination and private practice. Writing assignments and oral presentations as appropriate to the discipline are part of the course.

Prerequisite(s): Grade of C or better in Dental Hygiene 251.

1 Lecture Hour. 12 Lab Hours. 5 Credit Hours.

Offered at: MX

Dental Hygiene 256
Community Dental Health II

A continuation of Dental Hygiene 235. The role of the dental hygienist in community disease prevention, health promotion activities will be emphasized. Epidemiology of dental disease will also be discussed. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lab Hours. 1 Credit Hours.

Offered at: MX

Dental Hygiene 258
Ethics And Jurisprudence

Introduction to ethical and regulatory principles and Illinois law as it pertains to dental hygiene practice. Emphasis is placed on problem solving through the ethical decision making process. Reinforcement of professional behaviors with patients, colleagues, and the community. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission to the Dental Hygiene Program/Plan 222 and Consent of Department Chairperson.

2 Lecture Hours. 2 Credit Hours.

Offered at: MX

Dental Hygiene 260
Senior Seminar

The course is a review of all material found on the national, regional and state dental hygiene board examinations. The course is designed to prepare students for the Dental Hygiene Board examinations, and also includes employment/professional preparation. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission to the Dental Hygiene Program/Plan 222 and Consent of Department Chairperson.

2 Lecture Hours. 2 Credit Hours.

Offered at: MX

**EXRCISE SCI AND SPORTS STUDIES
(0147)****Excrcise Sci and Sports Studies 103
Allied Health Clinical Skills**

Course Catalog Description: This course serves as an introduction to rehabilitation professions, the basic concepts governing rehabilitation practice, and skills performed by a rehabilitation aide. Course work includes orientation to various practice settings and scope of practice for a rehabilitation aide. This includes education and training, communication, patient care, basic medical terminology, mobility, assistive devices, activities of daily living, adaptive equipment, and therapeutic exercise. Completion of this course will give the student the skills to work as a rehabilitation aide under the supervision of a physical or occupational therapist or a physical therapist or occupational therapist assistant in a variety of practice settings including hospitals, skilled nursing facilities, inpatient/outpatient rehabilitation centers, and home care. Writing assignments, as appropriate to the discipline, are part of this course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: MX

FOUNDATIONAL STUDIES MATH (0830)**Foundational Studies Math 3001
Math Refresher I**

This course is designed for students needing a review of basic math in order to take college level math courses. This course provides a review of the rules of addition, subtracting, multiplication and division using whole numbers and decimals. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: This course can be taken two times.

Prerequisite(s): Must be taken concurrently with FS MATH 3002.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

**Foundational Studies Math 3002
Math Refresher II**

This course is designed for students needing a review of basic math in order to take college level math courses. This course focuses on percents, fractions, and integers. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: This course can be taken two times.

Prerequisite(s): Must be taken concurrently with FS MATH 3001.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK MX OH TR HW WR

FRENCH (0051)**French 214
Readings In Literature French**

Works from selected historical periods, conducted in French. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Placement test, or grade of C or better in French 104, Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK TR HW WR

IAI: H3 916 GE: Humanities

**HEALTH INFORMATION TECHNOLOGY
(0145)****Health Information Technology 213
Supervisory and Legal Aspects**

Course studies impact of legal system on health information. Focus of this course is on the health record as a legal document, and effect of confidential communication laws, including HIPAA, on release of information and use of health information. Content of this course also includes management principles and supervisory role in healthcare organizations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Earned Advanced Certificate in HIT

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

**Health Information Technology 214
Quality and Performance Improvement**

Course covers trends in healthcare quality control and performance, Performance Improvement (PI) foundations, fundamentals and principles. It reinforces understanding of PI concepts and issues with case studies and real-world scenarios. Hands-on practice through analytical and practical tools. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Earned Advanced Certificate in HIT

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

**Health Information Technology 222
Professional Practice II**

Continuation of HIT 221. This course provides opportunity to increase proficiency in coding skills, gain knowledge and skill in release information, patient care evaluation procedures, supervisory duties, and ambulatory care settings. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Earned Advanced Certificate in HIT

1 Lecture Hour. 9 Lab Hours. 4 Credit Hours.

Offered at: MX

HISTORY (0085)**History 115
Afro-American History Since 1865**

Reconstruction period after the Civil War; black politics in the new South; rise of Jim Crow sentiment; alliance of northern industry and southern Bourbonism; early northward migrations and urban culture; growth of civil rights organizations; W. E. B. DuBois and Booker T. Washington; blacks in World Wars I and II; post-war developments. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: KK MX OH TR HW WR

GE: Social & Behavioral Sciences HD Course

HUMANITIES (0041)**Humanities 146****Gay, Lesbian, Bisexual & Transgender**

The interdisciplinary interpretation of historic and contemporary creative works (art, drama, film, literature, and music) with Gay, Lesbian, Bisexual and Transgender themes, primarily by multicultural GLBT authors and artists of the Americas. Analysis of GLBT culture from the perspective of Queer theory. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: TR

IAI: HF 907D GE: Fine Arts & Humanities HD Course

Prerequisite(s): Grade of C or better OR Concurrent enrollment in 340MFGT 142 OR Consent of Department Chairperson.

1 Lecture Hour. 4 Lab Hours. 3 Credit Hours.

Offered at: DA WR

Manufacturing Tech TC1 147**Multi Axis Machining**

This course covers operations and procedures for Swiss multi axis machining. The course content is inclusive of an overview of multi axis machining. Course will cover: Safety Precautions, Specifications, Operational panel functions, Functions of multi axis Swiss lathe operations, Programming, Automatic operations, Setting and Adjustment, Troubleshooting, Inspection and Maintenance. Writing assignments, as appropriate to the discipline, are part of the course. *Prerequisite(s): Grade of C or better in 340 MFGT 140, or Consent of Department Chairperson.*

1 Lecture Hour. 4 Lab Hours 3 Credit Hours.

Offered at: WR

LIBRARY & INFORMATION SCIENCE (0039)**Library & Information Science 101****Information Literacy**

This course is to help students gain the information literacy skills that enable them to find, retrieve, gather, analyze, and use information so they can prosper as a student, citizen and life-long learner. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA KK OH HW WR

Manufacturing Tech TC1 207**Introduction to MASTERCAM**

This course trains students to use Mastercam software to create programs that will drive computerized machine tools (CNC machines). These "g-code" programs are generated from part geometry created in Mastercam software or in a computer-aided-drawing (CAD) software such as Solidworks. Students will learn to create part geometry, generate toolpaths, assign appropriate tools to the toolpaths, and upload their program to a CNC machine, which will precisely cut the part from metal stock. Student projects will focus on 2-D milling operations. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in 340MFGT 140 OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA WR

MANUFACTURING TECH TC1 (0340)**Manufacturing Tech TC1 138****Intro to Solidworks**

This course covers part modeling, detailing and assembly design using SolidWorks software. SolidWorks is a feature-based parametric solid modeler used for mechanical design and manufacturing. The topics include the basic functions needed to use SolidWorks to create parts, assemblies and production drawings. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for Math 99 AND Grade of C or better in 340MFGT 139 OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA WR

Manufacturing Tech TC1 255**Industrial Hydraulics**

This course is a study of basic principles of hydraulics. The topics in this course include schematic interpretation, valves, actuators, compressors, line sizing, fluid viscosity and reservoir capacity. This course will also include the use of supplier catalogs and technical manuals. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for Math 098 AND English 096 OR Consent of Department Chairperson.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: DA

Manufacturing Tech TC1 139**Print Requirements-Quality Assurance**

This course focuses on the fundamentals of print reading and the measuring skills needed to verify print requirements. Visualization of 3D objects from orthographic views and the use of micrometers and dial calipers are stressed. The concepts of Geometric Dimensioning and Tolerancing, and quality tools (such as Pareto diagrams and fishbone charts) are introduced. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for Math 98 and English 096 OR Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA WR

Manufacturing Tech TC1 143**Advanced Metrology**

The course focuses on the use of the Coordinate Measuring Machine (CMM) and the optical comparator to inspect machine parts to the current ASME Y 14.5 Geometric Dimensioning and Tolerancing (GD&T) standards. Lab exercises will focus on the set up and operation of precision measuring tools, including the CMM and the optical comparator, to inspect complex parts. Bore gages, attribute gages, gage blocks and pins and their use in calibration will also be covered. Writing assignments, as appropriate to the discipline, are part of the course.

MATHEMATICS (0045)**Mathematics 143****Pre Calculus**

Pre-calculus emphasizes the notion of function as a unifying concepts for the topics of college algebra and an extension of the topics of trigonometry. The following families of functions and their characteristics are examined within this course: polynomial functions; rational functions; exponential and logarithmic functions; and trigonometric functions. Writing assignments, as appropriate to the discipline, are part of the course. Applications involving problem-solving skills will be emphasized throughout the course.

Prerequisite(s): Completion of Math 99 with a C or better, or ALEKS 46+, or COMPASS ALGEBRA 43+ AND College ALGEBRA 1-50, or ACT Math 21+, or SAT Math 500+ if before 3/1/16 (530+ if after 3/1/16), or Consent of department.

6 Lecture Hours. 6 Credit Hours.

Offered at: DA KK MX OH TR WR

Mathematics 204
Calculus For Business & Social Sciences

This course provides an introduction to differential and integral calculus with specific applications to business and social science. The use of technology (e.g., graphing calculator, an algebraic system, etc.) and writing as appropriate to the discipline will be emphasized in this course.

Prerequisite(s): Completion of Math 140 with a C or better, or ALEKS math score of 61+, or COMPASS ALGEBRA 43+ AND College ALGEBRA 51+ AND TRIGONOMETRY 1-50, or ACT Math 24+, or SAT Math 560+ if before 3/1/16 (580+ if after 3/1/16) or Consent of departme

5 Lecture Hours. 4-5 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: M1 900-B **GE:** Mathematics

Mathematics 207
Calculus & Analytic Geometry I

This is the first course in calculus and analytic geometry. It explores various characteristics and equations of conics and covers techniques of differentiation for algebraic and trigonometric functions. It also includes an introduction to the Fundamental Theorem of Calculus. Technology and writing as appropriate to the discipline will be emphasized throughout the course.

Prerequisite(s): Completion of Math 140 & 141 with a C or better, or completion of MATH 143 with a C or better, or ALEKS score of 76+, or COMPASS Algebra 43+ AND College ALG. 51+ AND TRIG. 51+, or ACT Math 24+, or SAT Math 560+ if before 3/1/16 (580+ if a

5 Lecture Hours. 5 Credit Hours.

Offered at: DA KK MX OH TR HW WR

IAI: M1 900-1 **GE:** Mathematics

MEDICAL ASSISTING (0153)**Medical Assisting 103**
Medical Assisting Clinical Procedures I

This course is designed to introduce students to basic clinical procedures in the medical office assisting field. Students will learn to perform basic skills and assist with procedures common to the medical office. Instruction will include classroom and laboratory as learning experience. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Acceptance into the Medical Assisting Program.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: MX

Medical Assisting 104
Medical Assisting Clinical Procedures II

This course is designed to build upon the knowledge and skills developed in Clinical I. Students will learn to perform clinical skills and assist with procedures common to the medical office. Instruction will include classroom and laboratory learning experiences. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Acceptance into the Medical Assisting Program.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: MX

Medical Assisting 106
Administrative Procedures

This course will explore administrative and front office responsibilities in the physician's practice or clinical setting. Emphasis is placed on clerical functions, including verbal and written communication, patient reception, and records management. Writing assignments, as appropriate to the discipline, are part of the course.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: MX

Medical Assisting 107
Pharmacology

This course introduces the students to the basic skills that are performed by the medical assistant in the medical office. The course will emphasize the principles of pharmacology as they relate to medication administration in the medical office and clinical settings. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Acceptance into the Medical Assisting Program.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: MX

Medical Assisting 108
Fundamentals of Ambulatory Billing and Coding

This course covers performance of coding procedures; application of third party and managed care policies, procedures, and guidelines, including obtaining referrals and pre-certifications; billing for services, including insurance claim forms and use of a physician's fee schedule. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Acceptance into the Medical Assisting Program.

2 Lecture Hours. 2 Lab Hours. 3 Credit Hours.

Offered at: MX

MORTUARY SCIENCE (0128)**Mortuary Science 203**
Funeral Directing

This course recognizes the wide variation of funeral customs across the country, attempting to point out some general practices that contain minimal geographic and cultural differences, including general information on notification of death, transfer of remains, conduct of the arrangement conference, pre-funded/preplanned funerals. Included is the cross-section of religious funeral practices, fraternal and military funerals, shipment of remains, cremation and aftercare. Guidelines for the course are designed to introduce the Federal Trade Commission and the Trade Regulation Rule on Funeral Industry Practices. Blackboard Course (BBOC) computer skills recommended but not required. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Grade of C or better in Mortuary Science 111.

3 Lecture Hours. 3 Credit Hours.

Offered at: MX

HD Course

MUSIC (0060)**Music 212**
Aural and Keyboard Skill IV

Continuation of Music 211. Further development of aural perception (melodic, rhythmic, and harmonic dictation) and abilities in sight-singing (single melodies and duets). Application of harmonic concepts at the keyboard. This course is the fourth in a four-semester sequence of courses in which music majors need to enroll each term of the freshman and sophomore year. The course may be offered separately or with one or more topics combined. Aural skills include sequential development of ear training, sight singing, and dictation, and may also include computer-assisted instruction and/or other applications. Writing assignments, as appropriate to the discipline are part of the course.

Prerequisite(s): Grade of C or better in Music 211, or Consent of Department Chairperson.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: HW WR

NURSING (0063)**Nursing 151
Nursing Fundamentals II**

Students learn to administer medications and to use the nursing process to care for persons having surgery. The nursing process is also used to assist persons with oxygen, wound care, fluid and electrolyte, and rest and sleep needs and to assist persons who need relief from pain. Learning in classroom, lab and clinical settings foster professional growth. Theoretical concepts and clinical nursing skills contained in this course are consistent with the skills standards developed for the State of Illinois. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission to the Practical Nursing Program.

2 Lecture Hours. 4 Lab Hours. 4 Credit Hours.

Offered at: MX WR

PHILOSOPHY (0043)**Philosophy 201
Greek Philo To Renaissance**

A study of major philosophers and schools of thought, including social, political and religious contexts within which each developed, from the pre-Socratic thinkers to the Renaissance. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA HW WR

IAI: H4 901 GE: Humanities

**Philosophy 202
Enlightenment To Present**

This course covers major philosophers and schools of thought from the 17th century to the present. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Eligibility for English 101 based on prior coursework or CCCRTW, COMPASS, ACT, or SAT test scores, or Consent of Department Chairperson.

3 Lecture Hours. 3 Credit Hours.

Offered at: DA HW WR

IAI: H4 902 GE: Humanities

PHLEBOTOMY (0113)**Phlebotomy 109
Phlebotomy Practicum and Seminar I**

This course provides principles of phlebotomy techniques and examines the phlebotomist's role as a member of the healthcare delivery team. The students will perform simulated phlebotomy procedures on campus and actual procedures in a clinical setting. Medical terminology, anatomy and physiology, communications, interpersonal relations, professional behavior, safety requirements in the healthcare institution, venipuncture and capillary puncture techniques will be discussed. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): English 96 eligibility. Admission into the Phlebotomy Program.

2 Lecture Hours. 9 Lab Hours. 5 Credit Hours.

Offered at: MX

**Phlebotomy 209
Phlebotomy Practicum and Seminar II**

This course provides the student with hands-on experience in both venous and capillary blood drawing in a clinical setting (i.e. hospital and ambulatory health care environment) and in the phlebotomy laboratory during clinical practicum. A minimum of 100 successful unsupervised venipuncture using standard equipment is required for the completion of this course. The students will perform simulated capillary punctures on campus to prepare students in a clinical setting. Topics such as stress management quality assurance and quality control, capillary puncture, continuation of medical terminology legal aspects of phlebotomy, data entry, and cardiopulmonary resuscitation (CPR), will be discussed. The student will also be trained on how to perform a basic 12-lead electrocardiogram (ECG). Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admission into the Phlebotomy program.

3 Lecture Hours. 16 Lab Hours. 8 Credit Hours.

Offered at: MX

PHYSICAL THERAPIST ASSISTANT (0151)**Physical Therapist Assistant 110
Introduction to Physical Therapy**

This course introduces the field of physical therapy (PT) and foundational knowledge of topics threaded throughout the technical portion of the physical therapist assistant curriculum. These topics include, but are not limited to, the history of the profession, PT practice settings, roles and responsibilities of the physical therapist assistant (PTA), the PT/PTA relationship and other interprofessional relationships, ethical and legal considerations in PT, communication skills, cultural competence and diversity in health care related to age, race, ethnicity, socioeconomic status and disability, pharmacology medical terminology, documentation, basic patient safety, patient privacy/comfort, architectural barriers, recognizing and responding to emergency situations, and research and evidence based practice. Upon completion, students should be able to expand upon this foundational knowledge in subsequent courses as it pertains specifically to patient care and conditions/body systems studied. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admittance into the Physical Therapy Assistant Program.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: MX

HD Course

**Physical Therapist Assistant 140
Health Promotion & Wellness I**

This course introduces the physical therapist assistant student to health promotion and wellness beginning with a reflection of self as an individual and student, as member of the interprofessional healthcare team, and subsequently the community at large. Students will identify strategies for successful navigation of the physical therapist assistant program including identifying personal strengths and weaknesses, self-reflection on health beliefs, and skills to maintain a healthy school-life balance. The second portion of the course will shift beyond self to health promotion and wellness as a member of the community and interprofessional healthcare team. Students will identify, design, and implement an interprofessional initiative to promote the health and wellness of the members of our college community. Upon completion, students should be able to implement skills to maintain a school-life balance to maintain academic success and complete a needs assessment of their environment and implement feasible initiatives aimed at promoting the health and wellness of that community. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admittance into the Physical Therapy Assistant Program.

1 Lecture Hour. 1 Credit Hours.

Offered at: MX

**Physical Therapist Assistant 150
Therapeutic Procedures I**

This course introduces assessment and measurement techniques and mobility training commonly performed by the physical therapist assistant. In this course, students will learn the applicable foundational knowledge and clinical skills to complete anthropometric, joint ROM, muscle length, muscle strength, sensory, and balance/coordination tests and measurements. Additionally, this course will build upon foundational coursework emphasizing the underlying clinical decision making skills and technical skills for functional patient mobility including assistive device fitting, bed mobility, transfer training, gait training, stair navigation, and wheelchair mobility. Upon completion, students should be able to safely, correctly, and effectively apply and document these techniques and procedures within the plan of care and scope of practice of the physical therapist assistant under the supervision of a physical therapist. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admittance into the Physical Therapy Assistant Program.

1 Lecture Hour. 6 Lab Hours. 3 Credit Hours.

Offered at: MX

**Physical Therapist Assistant 160
Orthopedic Practice & Exercise**

This course introduces commonly encountered orthopedic conditions in physical therapy and effective interventions for physical therapy management. As each joint of the human body is explored, emphasis is placed on foundational principles of tissue healing, pain management, and recovery of meaningful function for the patient. Using evidence based practice as a guide, clinical decision making skills stress progression and modification of interventions. Upon completion, students should be able to safely, correctly, and effectively apply and document tests, measurements, and interventions in clinical practice based on knowledge of orthopedic conditions as experienced by patients within the plan of care and scope of practice of the physical therapist assistant (PTA) under the supervision of a physical therapist. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admittance into the Physical Therapy Assistant Program.

2 Lecture Hours. 6 Lab Hours. 4 Credit Hours.

Offered at: MX

**Physical Therapist Assistant 170
Therapeutic Procedures II**

This course covers the theory and application of therapeutic modalities used in physical therapy practice. Modalities covered in this course include: superficial thermal agents (therapeutic heat and cold), ultrasound and phonophoresis, diathermy, lasers, ultraviolet, electrotherapeutics for pain management, muscle contraction, drug delivery, and tissue repair, EMG/biofeedback, traction, massage, compression therapies, aquatics and hydrotherapy. Emphasis is placed on foundational principles and mechanics from physics, physiological effects, indications, contraindications, precautions, skilled application of the modality, clinical decision making, evidence-based practice, and documentation procedures. Upon completion, students should be able to safely, correctly, and effectively apply these techniques and procedures within the plan of care and scope of practice of the physical therapist assistant (PTA) under the supervision of a physical therapist. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admittance into the Physical Therapy Assistant Program.

1 Lecture Hour. 6 Lab Hours. 3 Credit Hours.

Offered at: MX

**Physical Therapist Assistant 171
Cardiopulmonary & Vascular Practice**

This course introduces commonly encountered cardiopulmonary and vascular conditions in physical therapy. In this course, students will learn the applicable knowledge and clinical skills to complete tests and measurements related to a patient's cardiopulmonary and vascular status. Additionally, this course will further previous and foundational coursework emphasizing clinical decision making skills, proficiency with cardiopulmonary and vascular risk factor assessments, effective resistive and aerobic exercise progressions and modifications, response to emergent conditions, and wellness and prevention initiatives in the cardiopulmonary and vascular patient populations. Lymphatic and integumentary conditions, tests, measurements, and interventions are introduced as related to the cardiopulmonary and vascular systems. Upon completion, students should be able to safely, correctly, and effectively apply and document tests, measurements, and interventions in clinical practice based on knowledge of cardiopulmonary, vascular, and related lymphatic and integumentary conditions as experienced by patients within the plan of care and scope of practice of the physical therapist assistant (PTA) under the supervision of a physical therapist. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admittance into the Physical Therapy Assistant Program.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: MX

**Physical Therapist Assistant 200
Pathophysiology & Complex Systems**

This course introduces the remaining body systems and conditions encountered in physical therapy: integumentary, endocrine, immune, hematological, gastrointestinal, genitourinary, and metabolic. For each system and its related conditions, the student will explore etiology, pathology, manifestation, medical and physical therapy treatment, and prognosis. Realistic complex patient care and multi-system involvement is explored through an integration with orthopedic, cardiopulmonary, and neurologic conditions routinely treated by the physical therapist assistant as the patient progresses through the acute care, inpatient rehab and/or SNF, home care, and outpatient physical therapy settings. Upon completion, students should be able to safely, correctly, and effectively apply and document tests, measurements, and interventions in clinical practice related to conditions involving complex system interactions within the plan of care and scope of practice of the physical therapist assistant (PTA) under the supervision of a physical therapist. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admittance into the Physical Therapy Assistant Program.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: MX

**Physical Therapist Assistant 201
Neuromuscular Rehabilitation**

This course introduces commonly encountered adolescent and adult neurological conditions in physical therapy. In this course, students will learn the applicable foundational knowledge and clinical skills to complete assessment and measurements of sensation, cranial nerve and reflex integrity, cognitive functioning, hypo/hypertonicity, ROM, MMT, spasticity, coordination, and balance. Additionally, this course will further previous and foundational coursework emphasizing clinical decision making skills, proficiency with risk factor assessments, effective exercise progressions and modifications, response to emergent conditions, and wellness and prevention initiatives in neurological patient populations. Upon completion, students should be able to safely, correctly, and effectively apply and document tests, measurements, and interventions in clinical practice based on knowledge of neurological conditions as experienced by patients within the plan of care and scope of practice of the physical therapist assistant (PTA) under the supervision of a physical therapist. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admittance into the Physical Therapy Assistant Program.

2 Lecture Hours. 3 Lab Hours. 3 Credit Hours.

Offered at: MX

Physical Therapist Assistant 211**PTA Clinical Education I**

This full time clinical education experience (40 hours per week for 8 weeks) offers students the opportunity to gain exposure to a variety of medical and physical therapy diagnoses, develop patient care skills under the supervision of a clinical instructor (physical therapist assistant and/or physical therapist), and become an active participant in the health care team. Students will be placed in inpatient and outpatient physical therapy settings. Writing assignments, as appropriate to the discipline, are part of this course.

Prerequisite(s): Admittance into the Physical Therapy Assistant Program.

20 Lab Hours. 7 Credit Hours.

Offered at: MX

Physical Therapist Assistant 220**Physical Therapy Across the Lifespan**

This course introduces foundations for human development and movement and explores developmental changes across the lifespan. At each developmental stage, this course expands upon physical, cognitive, emotional, psychosocial, and sociocultural changes experienced by individuals and how these differences impact effective physical therapy treatment. Commonly encountered conditions will be introduced along with effective interventions. Upon completion, students should be able to safely, correctly, and effectively apply and document tests, measurements, and interventions in clinical practice based on knowledge of patient conditions experienced across the lifespan within the plan of care and scope of practice of the physical therapist assistant (PTA) under the supervision of a physical therapist. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admittance into the Physical Therapy Assistant Program.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: MX

Physical Therapist Assistant 240**Health Promotion & Wellness II**

This course builds upon content of Health Promotion and Wellness I expanding upon cultural competence, service learning in a broader context as part of the interprofessional team, and continuing professional development as students prepare for the National Physical Therapist Assistant Exam (NPTAE) and employment. The course will integrate classroom and clinical knowledge from throughout the course of study in the physical therapist assistant (PTA) program culminating in a health promotion and wellness initiative aimed at the improving upon the health of the immediate community. Upon completion, students as part of an interprofessional team should be able to complete a needs assessment and implement feasible initiatives aimed at promoting the health and wellness of a culturally diverse community. In addition, students will gain the knowledge and tools to successfully seek licensure and employment. Writing assignments, as appropriate to the discipline, are part of the course.

Prerequisite(s): Admittance into the Physical Therapy Assistant Program.

1 Lecture Hour. 2 Lab Hours. 2 Credit Hours.

Offered at: MX