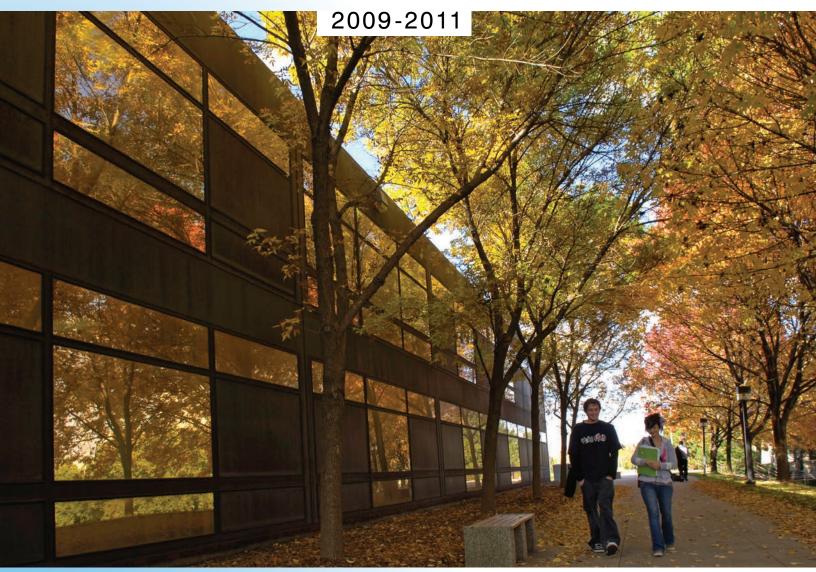
Catalog











The Catalog 2009-2011

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The Higher Learning Commission; Member, North Central Association Academic Quality Improvement Program Participant

Approved by

Illinois Community College Board Illinois Board of Higher Education Department of Adult, Vocational and Technical Education Illinois Department of Veterans' Affairs

Calendar 2009-2011

Fall Session, 2009			
	Legal Holiday (Labor Day) (No Classes)		
	12-Week Classes Begin		
	End of 1st 8-Week Classes		
Wednesday, Oct. 21	2nd 8-Week Classes Begin		
Wednesday, Nov. 25			
Thursday to Sunday, Nov. 26 to 29			
Sunday, Dec. 13	End of 12-Week Classes		
Saturday to Friday, Dec. 12 to 18	Final Evaluations / Culminating Activities		
Friday, Dec. 18	End of 16-Week and 2nd 8-Week Classes		
Spring Session, 2010			
	In-Service Days/Professional Days (No Classes)		
Thursday, Jan. 14			
	Legal Holiday (M.L. King's Birthday) (No Classes) 12-Week Classes Begin		
	In-Service Day/Professional Day (No Classes)		
	End of 1st 8-Week Classes		
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	Spring Break		
	End of 12-Week Classes		
	Final Evaluations/Culminating Activities		
Friday, May 14 End of 16-Week and 2nd 8-W			
Summer Session, 2010			
Monday, May 24	1st 5-Week Classes Begin and 1st 8-Week Classes Begin		
Monday, May 31	Legal Holiday (Memorial Day) (No Classes)		
Monday, June 7	2nd 8-Week Classes Begin		
Sunday, June 27	End of 1st 5-Week Classes		
onday, June 28			
Sunday, July 4	Legal Holiday (Independence Day) (No Classes)		
	End of 1st 8-Week Classes		
Sunday, Aug. 1 End of 2nd 8-Week and 2nd 5-Week			
Classes			

Wednesday to Friday, Aug. 18 to 20. .All Faculty Return / Convocation Days Monday, Aug. 23 16-Week and 1st 8-Week Classes Begin Monday, Sept. 6 Legal Holiday (Labor Day) (No Classes) Tuesday, Sept. 14. .12-Week Classes Begin Monday, Oct. 18 .12-Week Classes Begin Monday, Oct. 18 .12-Week Classes Begin Monday, Oct. 19 .12-Week Classes Begin Monday, Oct. 19 .12-Week Classes Begin Mednesday, Nov. 24 .12-Week Classes Begin Wednesday, Nov. 24 .12-Week Classes Begin Mednesday, Nov. 25 to 28 .12-Week Classes Begin Mednesday, Nov. 25 to 28 .12-Week Classes Begin Mednesday, Nov. 25 to 28 .12-Week Classes Begin Mednesday, Dec. 10 .11-Service Day/Professional Day (No Classes) Friday, Dec. 10 .11-Service Day/Professional Day (No Classes) .12-Week Classes Begin Mednesday, Jep. 10 .12-Week Classes Begin Monday to Wednesday, Jan. 10 to 12 .11-Service Days/Professional Days (No Classes) .12-Week Classes Begin Monday, Jan. 13 .16-Week and 1st 8-Week Classes Begin Monday, Jan. 13 .16-Week and 1st 8-Week Classes Begin Firday, March 11 .12-Week Classes Begin Firday, March 11 .12-Week Classes Begin Firday, March 11 .12-Week Classes Begin Firday, March 12 .12-Week Classes Begin Firday, March 13 .12-Week Classes Begin Firday, March 14 .12-Week Cl	Fall Session, 2010			
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Please consult the current Class Schedule or the college's web site for any revisions in the calendar.

^{*} Refunds for credit classes are based on when a student officially withdraws through the Registration office. The refund schedule is printed in the *Class Schedule*.



Dr. Robert L. Breuder

From the President

Welcome to College of DuPage. For more than 40 years we have opened our doors to the community and watched as nearly 1 million people have turned to us for their academic needs. The College's reputation has always been remarkable with its 30,000 students, our 48 District 502 communities and more than 30,000 area businesses.

As President, I embrace the strong relationship C.O.D. has sustained through more than four decades with its community residents. They recognize the College's commitment to excellence and its delivery of quality instruction and personal attention to their academic needs and career goals. Whether you are a first-time student seeking an affordable education, or you're currently unemployed and looking to enter a new career field, seeking to refine skills in your current job, or simply searching for the ideal class for personal enjoyment, College of DuPage is truly the best value for your educational investment.

While the world races forward, College of DuPage strives to provide its students with the skills and training they will need to meet the demands for the workplace of today — and tomorrow.

When a student registers in a course at College of DuPage, they know the curriculum is outstanding and taught by experienced and dedicated faculty who are acknowledged experts in their fields. And with small, personalized class sizes, our dedicated instructors take time to carefully listen and answer students' questions.

College of DuPage offers more than 190 degrees and certificates giving you plenty of choices. Our staff and services are there every step of the way to ensure your time at C.O.D. is time well spent. We have also created myACCESS, a new self-service web site that allows students to register, pay their bills, view schedules, accounts and grades, and check financial aid status.

Our campus is rapidly expanding with our new Health and Science Center and Technical Education Center opening in 2009, along with work beginning on renovating the Berg Instructional Center and Student Resource Center. Rarely has there been a more exciting time to be a student at College of DuPage.

Please visit and see for yourself how our campus is transforming. Enjoy an event at our McAninch Arts Center, watch our nationally ranked sports teams battle their rivals or check out a book from our magnificent Library. See for yourself why College of DuPage is the community's first choice and best educational value.

Sincerely,

Dr. Robert L. Breuder President

Board of Trustees

The Board of Trustees is charged with establishing policy for the financing, governance, operation and administration of College of DuPage. Seven voting members are elected from the district at large and a non-voting student trustee is elected by student referendum during Spring Semester, to serve from April to April. This is one of the truly unique governance experiences available.

Regular Board of Trustee meetings are normally held on the third Thursday of each month. The public is invited to attend the meetings. More information on meeting dates and times is available on the college web site: cod.edu.



Micheal E. McKinnon Board Chairman Oak Brook



David Carlin Naperville





Kathy A. Wessel Wheaton



Kory Atkinson Roselle

Joseph T.

Snyder Burr Ridge



Mark J. Nowak **Board Vice** Chairman Addison





Malek Zoubi Student Trustee Lombard

Joseph C. Wozniak Naperville







The College

History

On Sept. 25, 1967, College of DuPage opened under President Rodney K. Berg and Board of Trustees Chairman George L. Seaton. Classes were held in office trailers and at 40 leased suburban sites throughout the newly formed Community College District 502. Driving from class to class, the 2,621 students and 87 full-time faculty and staff of this "campus-less" community college became affectionately known as road-runners, hence the school's varsity athletics nickname "Chaparrals."

The origins of C.O.D. can be traced to two signature events. First was the adoption of the Public Community College Act of 1965 by the Illinois General Assembly. Second was the approval of a Dec. 4, 1965, referendum by DuPage high school district voters. Their foresight created a new community college to serve the dynamically growing and prospering DuPage area.

In 1968, a 273-acre Glen Ellyn campus site was acquired, and a year later, three interim buildings were constructed west of Lambert Road. When the first permanent building, today's Rodney K. Berg Instructional Center, was opened in 1973, enrollment had eclipsed the 10,000 mark. Four years later, when the third floor in the BIC was completed, enrollment stood at 19,642.

The Business and Professional Institute was created in 1979, a year also marked by the appointment of Harold D. McAninch as C.O.D.'s second president. In 1983, when the Student Resource Center (SRC) and Physical Education and Community Recreation Center were unveiled, enrollment had reached 27,000.

Over the next decade, the McAninch Arts Center (1986) and Seaton Computing Center (1990) were opened on campus, while new Naperville and Westmont centers (1991) offered an even greater neighborhood off-campus presence.

Michael T. Murphy became C.O.D.'s third president in 1994. Guided by input from more than 2,000 students, staff members and area residents, he led a restructuring effort to provide an even greater focus on student services and quality. Under Murphy, C.O.D. became America's largest single-campus community college, a distinction it held through 2003. Today's College of DuPage is the Midwest's largest single-campus community college, serving approximately 30,000 students.

The community college district that College of DuPage proudly serves has also grown significantly. Originally formed from 10 high school districts, District 502 became the most populous in Illinois, outside of Chicago, when in 1967 the neighboring Lyons Township college district was annexed. More than 1 million residents from all or part of 51 communities comprise today's District 502 with boundaries encompassing significant parts of Cook and Will counties, as well as the majority of DuPage County.

Capping the 2002 academic year was voter approval of a \$183-million bond issue that provided funds for the renovating and rebuilding of College of DuPage, both on its Glen Ellyn main campus and several off-campus locations.

The arrival of the college's fourth president, Dr. Sunil Chand, and the opening of the college's expanded Bloomingdale Center highlighted 2003, as did the governing Board of Trustees' approval of a reverified Facilities Master Plan designed to enhance the college's ability to serve the academic, cultural and citizenship needs of its diverse publics.

Throughout 2004 and 2005, Chand launched major initiatives for the college's academic accreditation through the AQIP quality improvement process and the historic curriculum conversion from quarters to semesters that officially began with the Aug. 31, 2005, inaugural fall semester. College-wide preparations for a semester system included converting nearly 3,000 courses, programs, degrees and certificates, creating a new semester *Class Schedule* and *Catalog*, and enhancing the online versions of these key publications.

C.O.D. opened its Carol Stream Community Education Center in 2004 and West Chicago Community Education Center in March 2005. Also in 2005, ground was broken on the Early Childhood Center (ECC), representing the first major construction project to take place on the Glen Ellyn campus as outlined in the Facilities Master Plan.

Nine new academic programs were added to the C.O.D. curriculum in 2006 through judicious use of resources and expanded community partnerships, particularly those with area hospitals and health care providers. The nine new programs were: Mammography, Radiation Therapy, Certified Medical Assistant, Nursing Program Extension, Cosmetology, Paralegal Studies, Construction Supervision, Games and Simulation Design and Programming, and Motion Picture/Television: Animation.

Also highlighting 2006 was the unveiling of "Frontier Campus" at 2244 W. 95th Street in Naperville. The collaboration between C.O.D. and Indian Prairie District 204 provides Neuqua Valley and Waubonsie Valley high school students the opportunity to earn dual college credit. The new facility augmented the college's Naperville Regional Center on Rickert Drive and added more community college evening and weekend learning opportunities for area residents.

Year 2007 saw completion of the Early Childhood Center which showcases the college's renowned Early Childhood Education program and the Louise Beem Demonstration Center. In addition to the ECC, construction of efficient new campus roadways and spacious, environmentally responsive parking lots was completed. Plans were also underway for two future on-campus buildings, the Technical Education Center (TEC) and the Health and Science Center (HSC). In addition, visible progress continued on the threestory, 180,000 square-foot HSC and the three-story 178,000 square foot TEC, with move-in dates for both buildings scheduled for summer 2009.

Since its humble beginnings in 1967, College of DuPage has grown in breadth and stature to take its place as one of the nation's finest community colleges. Perhaps its most enduring legacy, however, is the nearly 1 million students of all ages, races, creeds and academic needs who have turned to its inspiring curriculum, dedicated and talented faculty, and myriad cultural opportunities to enrich their lives through higher learning.

Portrait of an Institution

Founded in 1966 and opened in the fall of 1967, College of DuPage is the Midwest's largest comprehensive, single-campus community college, and is dedicated to serving the diverse higher educational, civic and cultural needs of the residents of Community College District 502.

Enrolling approximately 30,000 students, C.O.D. in 2008 received a maximum seven-year reaccreditation through the North Central Association of Colleges and Schools Commission on Institutions of Higher Education. It is

recognized by the Illinois Community College Board (ICCB) and governed by a locally elected seven-member Board of Trustees and one elected, non-voting student representative.

College of DuPage's operating revenue is derived primarily from local taxes, tuition and fees, and state allocations. Special grants from state and federal sources may be acquired, and gifts and grants from foundations and private sources may be accepted through the College of DuPage Foundation.

Community College District 502 encompasses 357 square miles and 48 communities from almost all of DuPage and parts of Will and Cook counties. Total population of the college district (2005) is approximately 1,100,000; total assessed valuation (2007) of District 502 is \$44,535,081,379.

Facilities

Located 25 miles west of downtown Chicago, at 425 Fawell Blvd., the C.O.D. Glen Ellyn campus includes nine buildings: the Student Resource Center, Rodney K. Berg Instructional Center, Seaton Computing Center, Harold D. McAninch Arts Center, Physical Education and Community Recreation Center, Early Childhood Center, Open Campus Center, Building K and Building M.

The Student Resource Center addition was completed in 1995. The three-story, 160,000 square-foot facility houses the C.O.D. Library, bookstore, student center, Jack H. Turner Conference Center, and state-of-the-art Academic Computing Center that opened in 1998.

Credit and non-credit courses are offered both on campus and at nearly 100 off-campus sites throughout Community College District 502, including either C.O.D. regional or community education centers in Addison, Carol Stream, Naperville, West Chicago and Westmont. The college also operates several Centers for Independent Learning, including one on the Glen Ellyn campus, one each at regional centers in Addison, Naperville and Westmont, and one in Bloomingdale. College of DuPage also operates the Frontier Campus in Naperville through a partnership with Indian Prairie School District 204.

In 2001 College of DuPage passed a bond referendum to proceed with the implementation of a \$300 million Facilities Master Plan (FMP). With a completion date planned for 2013, the FMP has already resulted in the construction of a new Early Childhood Center (ECC), which opened in fall 2007, as well as the reconfiguration and expansion of parking lots and roadways on east campus. In addition, the Health and Science Center (HSC) and Technical Education Center (TEC) will open in 2009, and renovation of the Berg Instructional Center (BIC) and Student Resource Center (SRC) will begin in fall of that year. Included in this project is the construction of a 64,000 square-foot College Center on the north side of the BIC, which will serve as a new "front door" for the campus and will house offices such as Admissions and Information, Registration and Student Activities.

Library

The Library provides teaching and learning materials to support and enrich students' educational experiences. The Library offers an impressive array of print, audiovisual and electronic resources for students, faculty, staff and District 502 residents, and it provides assistance in how to locate information and use Library resources.

The Library has public computers, a wireless network, audiovisual viewing facilities, group study rooms and individual study space. The Library's many special services and collections include interlibrary loan, classes and workshops, a café and the College and Career Information Center. For more information, visit www.cod.edu/library.

Academic Computing Center

Located on the third floor of the SRC, the Academic Computing Center provides students the latest in technology with 600 networked personal computers, 15 classroom computing labs and an open lab of 160 PCs. Also available are nearly 300 networked PCs and 10 computer labs housed in the Seaton Center. In all, there are more than 2,900 personal computers available for student use in 152 computer labs located on and off campus.

C.O.D. Network

College of DuPage has an IBM mainframe, 90 servers and more than 4,400 networked PCs connected to an enterprise network. The college is connected to the Internet via an optical network to the Illinois Century Network that provides global access to information bases for faculty, staff, students and community residents. The Internet allows students from around the world to enroll in more than 90 online courses at C.O.D. Additionally, common areas on the main campus, including Student Activities, Bookstore, Cafeteria, Jack H. Turner Conference Center (SRC 2800) and the Library have wireless access whereby students can use their own laptop computers to connect wireless to the Internet.

WDCB-TV

An educational and community service provided by College of DuPage, WDCB-TV's broadcast schedule originates from the college and runs 24 hours a day, seven days a week. Programs are aired with public service announcements and WDCB-FM news.

A primary source of programming for WDCB-TV is college-credit telecourses offered by the college's Center for Independent Learning (CIL). Supplementing the credit telecourses are programs produced by the college and its consortium partners. The college's Multimedia Services department produces *Images*, *Career Paths* and *Spotlight*. These three general interest video programs cover a wide range of college issues. WDCB-TV is available in Wheaton, Glen Ellyn, Naperville, West Chicago, Geneva and St. Charles on channels 24 or 18 on cable.

90.9fm WDCB Public Radio

The college's award-winning public radio station provides Chicagoland and beyond with jazz, news, blues and more 24 hours a day, seven days a week. WDCB serves the entire metropolitan area with a 5-kilowatt signal broadcasting from C.O.D.'s Glen Ellyn campus, and also streams its signal to the rest of the world at WDCB.org

Organization

College of DuPage is headed by an administration under its President, Dr. Robert L. Breuder. Total staff at the college numbers 2,518 and includes administrators, full- and part-time faculty members, counselors, classified staff, various other professionals and student employees.

Reporting to the Office of the President are: the Vice Presidents, Chief Development Officer; Internal Auditor; Director of Public Information, and the Office of the Board of Trustees. Reporting to the Vice President for Academic Affairs are the academic divisions of Business and Technology; Health and Sciences; Liberal Arts; Learning Resources and Continuing Education.

Reporting to the Vice President for Administrative Affairs and Treasurer are the offices of Business Affairs; Financial Affairs and Controller; Human Resources; Research and Planning; Facilities, Operations and Maintenance; Risk Management, Hazardous Materials Management, Public Safety; and Facilities Planning and Construction.

Reporting to the Vice President for Student Affairs are Athletics, Admissions, Registration and Records; Financial Aid; Student Activities; and Student Services.

The Information Technology unit provides support for the use of technology by the faculty, staff, students and the community. The Vice President for Information Technology has responsibility for administrative and academic computing, including all the student computer labs, computer applications, multimedia services, audio/visual services, voice services, network services, and radio, television and web broadcasts.

By The Numbers

College of DuPage (2008) Administrators: 48 Full-time Faculty: 304 Counselors: 11 Student Employees: 343 Total Staff: 2,518 Classified Staff: 917 Part-time Faculty: 881 Librarians: 12 Other professionals: 2

Philosophy

College of DuPage believes in the power of teaching and learning. We endorse the right of each person to access opportunities to learn and affirm the innate value of the

pursuit of knowledge and its application to life. Our primary commitment is to facilitate and support student success in learning.

- College of DuPage is committed to excellence. We seek quality in all that we do and believe that the people we serve also must perceive value in our programs and services. To ensure quality, we are committed to continual assessment and self-evaluation.
- College of DuPage values diversity. We seek to reflect and meet the educational needs of the residents of our large, multicultural district. We recognize the importance of embracing individual differences and cultures and value the contributions made to the college by people of all ethnic and cultural backgrounds. We affirm our role as a catalyst for promoting dialogue and tolerance on issues supporting the common good.
- College of DuPage seeks to remove barriers to educational opportunity. We place a high priority on providing accessible, affordable courses and services.
- College of DuPage promotes full participation in planning and decision making. We support participatory governance and the involvement of the college community in the development of a shared vision. We believe that all students, staff and residents can make meaningful contributions within a respectful, equitable and responsive environment. We strive to build an organizational climate in which freedom of expression is defended and civility is affirmed.
- College of DuPage values service to students and community. The needs of our students and community are central to all we do.

Adopted by the College of DuPage Board of Trustees, Jan. 17, 1995



Mission

The mission of College of DuPage is to be at the forefront of higher education, serving the needs of the community. The college will be the first place residents turn to for the highest quality educational and cultural opportunities. The college will serve as a model of distinction for community college education.

To achieve this mission, the college will:

- Recognize, develop and support excellence in both learning and teaching.
- Foster an instructional and organizational climate that welcomes innovation, is open to change and targets continual improvement and accountability.
- Maintain a comprehensive, dynamic curriculum, a varied educational delivery system and a strong outreach effort ensuring that diverse learning needs are recognized and met.
- Offer programs and services that are flexible and accessible.
- Motivate and prepare students to qualify for and succeed in further educational endeavors.
- Promote critical and creative thinking and academic honesty.
- Provide relevant and thorough career education that prepares students to prosper in the world of work.
- Respond to the lifelong learning needs of residents and business.
- Support the personal and academic success of students through comprehensive student support services.
- Offer programs that educate students for responsible citizenship, civility and mutual respect in a multicultural and global society.
- Prepare students to live and work successfully in an international environment.
- Broaden learning opportunities for our community by creating alliances within and beyond the college district.
- Serve as a center for the cultural and intellectual enrichment of our community.
- Model and promote environmental stewardship.
- · Exercise integrity and responsibility in fiscal matters.
- Advance a college organization that learns continuously through team effort and draws upon everyone's talents, work and creativity.

Commitment to the Future

College of DuPage will meet the challenges of a dynamic community and maintain standards of excellence by continually examining and, where appropriate, adopting new technologies, learning theory and teaching methods. The college will respond to the needs of its community by providing quality education, training, information and cultural opportunities. College of DuPage will continue to be an innovative institution that provides a powerful learning environment for all.

Adopted by the College of DuPage Board of Trustees, Jan. 17, 1995

Participation in Assessment of Student Learning

The college routinely conducts campus-based studies of student attitudes, student achievement, student satisfaction, and the educational programs and services of the college. Participation in these assessment activities is expected of all students.

While every student is not selected for participation in every activity, it is possible that an individual student will be involved in one or more assessment activities during his/her enrollment at the college. Whenever possible, students participating in nationally normed and standardized assessments will be given feedback about their own performance, along with other data available, such as local and national norms. The information obtained through these assessment procedures is used to improve the educational experience for current and future students at College of DuPage.

Academic Planning and Assessment

The function of Academic Planning and Assessment is to provide a structure to the various strategic planning and assessment activities in the Academic Affairs unit. It also provides planning, assessment and support to programs, classes and services that affect students, community members, and C.O.D. faculty and staff. The Academic Quality Improvement Program (AQIP), Program Review, Student Outcomes Assessment, Strategic Planning, the college curriculum development and approval process, and accreditation activities are all important components of this support division.

College Articlation

The College Articulation office works closely with in-state baccalaureate institutions for the efficient and effective transfer of C.O.D. students. This office also works closely with the Illinois Community College Board (ICCB) and the Illinois Board of Higher Education (IBHE) in coordinating the Illinois Articulation Initiative (IAI).

Dual Credit

Dual credit provides high school students the opportunity to enroll in courses for which they receive both college credit and high school credit. Dual credit agreements are updated by faculty and administrators on a yearly basis.

High School Articulation

The College of DuPage High School Articulation program is designed to provide students with the opportunity to receive college credit for courses taken at the secondary level. The program helps students make a smooth transition from high school to College of DuPage.

Interdisciplinary Studies and Special Projects

The Interdisciplinary Studies program combines content areas taught by instructors where the syllabi are coordinated, blended or fused. Unique course offerings also are offered through the Interdisciplinary program where they respond to community, cultural, historical and educational needs. Special Projects refers to courses built around a particular topic within a discipline, usually something not otherwise covered by *Catalog* offerings.

Business and Technology

Always aware of the current and emerging trends in business, industry and computer technology, the Business and Technology division prepares its students with the skills needed for success in the job market and with a solid academic base for continuing their education at a baccalaureate-granting institution.

Faculty program coordinators work closely with business and industry through advisory committees, creating state-of-the-art curricula and providing up-to-date information to students. Faculty have real-world experience that they bring to their classes, ensuring that students receive realistic career guidance and practical career skills.

Business programs include accounting, business/management/marketing, paralegal studies, facilities management, hotel and lodging management, foodservice administration, real estate, business law, and travel and tourism. Technology and information systems programs encompass computer information systems, office technology information, library and information technology, paralegal studies, and computer and internetworking technologies. Career programs focus on service and design industries, including architecture; automotive service technology; construction management; cosmetology; heating, air conditioning and refrigeration; interior design; horticulture; and fashion merchandising and design.

The Business and Technology Division also includes the Center for Entrepreneurship. For more information regarding these programs, please see page 21.

For more information about the Business and Technology division, call (630) 942-2592 or visit www.cod.edu/Academic/Bus Tech.

Liberal Arts

The Liberal Arts Division is comprised of three subdivisions: Communications, Humanities, and Fine and Applied Arts. Information about each subdivision is provided below.

Communications includes studies in English Composition, Developmental Reading and Writing, Creative Writing, Technical Writing, Linguistics, Literature, Journalism and Speech. These disciplines provide an educational framework within which students can develop their abilities to think independently and to express themselves clearly, effectively and creatively. Instructors focus on the skills of communications and the contexts in which human expression occurs. Many of the courses in Communications satisfy the General Education requirements for graduation and can be transferred to other institutions.

Students in Communications are provided educational opportunities to:

- develop through practice observing, listening, reading, speaking and writing effectively;
- develop skills in acquiring, analyzing, synthesizing and evaluating information and ideas;
- · develop creative expression and aesthetic insight;
- read closely and analyze texts thoughtfully;
- enhance awareness of and respect for personal, social and cultural diversity;
- consider multiple viewpoints and perspectives in forums requiring communication;
- explore various styles and genres and cultural contexts for ideas and texts;
- apply various tools and technologies to communicate effectively.

Communications faculty sponsor participatory activities, including the student feature magazine, the student newspaper, the student literary magazine and the Forensics (Speech) Team. For more information, call (630) 942-2047.

Humanities includes subject areas that address the question of what it means to be human. Subject areas in the Humanities include History, Humanities, Languages, Philosophy and Religious Studies. The study of the Humanities frees students to think beyond personal and cultural boundaries, and to consider informed actions that have constructive outcomes for the future. Many of the courses in Humanities satisfy the General Education requirements for graduation and can be transferred to other institutions.

Students are provided educational opportunities to:

- develop skills in analysis, synthesis, and evaluation of readings and writings related to the Humanities;
- develop an understanding of History, Philosophy, Religious Studies, the Arts and cultural contexts;
- develop an awareness of human spiritual, intellectual, social and political aspirations;
- develop insight into various cultures through the study of history, foreign languages, the arts, philosophical and religious texts;
- develop creative and critical thinking skills.

Humanities faculty are committed to providing high quality educational and intellectual opportunities that challenge students to reflect critically on themselves and the world around them.

For specific information about History, Humanities, Languages, Philosophy and Religious Studies, call (630) 942-2047.

Fine and Applied Arts encompass a broad range of arts courses and programs that provide students the opportunity to create, perform, study and participate in the arts. Disciplines and programs in Fine and Applied Arts include transfer courses in the Fine Arts (Drawing, Painting, Computer Art), Ceramics, Jewelry, Printmaking, Sculpture, Music and Technomusic, and Theater. Many of the courses in the Fine Arts satisfy the General Education requirement for graduation and can be transferred to other institutions. The applied programs include transfer and occupational courses in Graphic Design, Graphic Arts Technology, Motion Pictures/TV and Photography. Both associate's degrees and certificates are offered in the applied arts programs.

Students in the Fine and Applied Arts are provided opportunities to:

- develop original ideas, tap creative impulses and create works of art:
- develop an appreciation for and insights into the visual and performing arts;
- develop analytical and evaluative skills and the ability to articulate critical insights into the arts;
- participate in theatrical and musical performances;
- study practical, commercial, historical, social and cultural contexts for the arts;
- study and employ appropriate tools, technologies and supplies in the creation of works of art;
- apply skills, talents and creative abilities, as appropriate, in public and practical settings;
- produce works of art for performance and visual showcase.

The faculty in the Fine and Applied Arts are working artists themselves, and those in the Applied Arts have industry experience. The faculty is committed to providing students with a full understanding of the arts and opportunities to participate in and perform in a broad range of student performance groups, including groups in music, theater and multimedia, and in exhibiting work in the Student Art Gallery and other venues around the campus.

For more information about the Fine and Applied Arts, call (630) 942-2047.

Academic ESL Program

The Academic ESL program offers upper-level, tuitionbased courses to prepare individuals for study at U.S. colleges and for professional employment in the United States. This program offers courses in listening, speaking



and pronunciation, reading, writing and grammar. Language and culture courses focus on cross-cultural communication. For more information, call (630) 942-3796.

English Language Institute

The English Language Institute (ELI) is an intensive ESL program for individuals who want or need to improve their English quickly for academic or professional purposes. The tuition-based program requires full-time study (18 credit hours) in integrated skills courses focusing on listening, speaking, pronunciation, reading, vocabulary, writing and grammar. Language and culture courses focus on cross-cultural communication. Community residents, international and foreign-born professionals, and F-1 International Students are eligible. Language assessment is required. Program planning and language assessment are available through the ESL Advising office, Berg Instructional Center (IC). For more information or to apply for admission, call (630) 942-3796.

Health and Sciences

The Health and Sciences Division is comprised of five areas: Health Sciences, Social and Behavioral Sciences, Natural Sciences, Math and Engineering, and Physical Education. Information about each area is provided below.

Health Sciences

Students in the Health Sciences area are prepared for direct entry into professional, semiprofessional, technical and skilled employment. Some students, however, elect to continue their education through articulated capstone programs at baccalaureate-granting colleges and universities either at the time of graduation or after several years of clinical practice.

Knowledge and skill requirements are constantly changing in the health science fields. The Health and Sciences Division keeps pace with these changes through an expert faculty with work experience and professional degrees, up-to-date technological resources, and the guidance of advisory committees comprised of representatives from business and industry, health and public service agencies, and institutions. Through these mechanisms the division strives to advise students about current job requirements and labor market conditions, facilitate employment, and meet the diverse manpower needs of the College district.

The health programs will relocate in summer 2009 to a new, state-of-the-art Health and Science Center with classrooms and laboratories. Supervised clinical health care experiences are provided at area hospitals and clinics. Due to the prerequisite education required, as well as limited technological and clinical resource availability, the College has special admissions processes for the following health care programs: Dental Hygiene, Health Information Technology, all Diagnostic Medical Imaging programs (vascular and general ultrasound, Nuclear Medicine, Radiologic Technology, Radiation Therapy, Mammography), Nursing (Practical Nurse and Associate Degree programs), Certified Medical Assistant, Physical Therapist Assistant, Respiratory Care, Speech/Language Pathology Assistant and Surgical Technology. Candidates for these programs must submit applications with an application fee, and meet admission criteria beyond that required for enrollment at College of DuPage. Group advising sessions are offered regularly for the majority of these programs. For schedules

and program admission packets, contact the Health Sciences admission office, (630) 942-3924. Other health science career programs such as Certified Nursing Assistant, Emergency Medical Technician, Long Term Care Administration, Phlebotomy/EKG, Medical Billing and Coding, and Pharmacy Tech are open enrollment and, while do not require separate admission, do require verification of program requirements prior to admission. Additional programming in other areas is currently under consideration.

Social and Behavioral Sciences

Faculty in the social and behavioral sciences seek to cultivate in students a broad perspective on human behavior, our cultural heritage and our relationships with others, our social institutions and the environment. Eleven subject areas are included: anthropology, criminal justice, economics, early childhood education and care, education, geography, human services, political science, psychology, social science and sociology. In addition to imparting knowledge of academic disciplines, the faculty challenges the learner to critically examine values, ideologies, social structures, political arrangements and accepted assumptions. Terminal degrees and certificates are offered in the disciplines of Criminal Justice, Early Childhood Education and Care, and Human Services. For more information, call (630) 942-2010.

Natural Sciences

Natural science courses include chemistry, physics, and earth, space and atmospheric sciences offerings designed to teach natural laws and theories governing interactions of particles from the infinitesimally small to the astronomically large. The applications of the laws of nature to human endeavor continue to astonish learners. The biological sciences examine the components of the living world and their interactions with the physical world. Applications of the life sciences to the environment, the ecosystem and living organisms are an integral part of these courses. For more information, call (630) 942-2495.

Math and Engineering

Math instruction provides students with a language of science capable of marshaling principles of natural phenomena and pattern recognition toward the solution of problems, both real and abstract. The study of math provides the tools that enable an understanding of quantitative relationships found in business and technology, as well as natural and social sciences. Engineering combines the principles of sciences and math with the principles of problem solving to provide advances in technology. For more information, call (630) 942-2010.

Physical Education

Physical education, often described as the study of motion, stresses both the gainful use of recreational and leisure time, as well as the connection between wellness and health in modern society. Activity and professional courses in physical education develop physically and mentally healthy citizens. For more information, call (630) 942-2364.

Learning Resources

The Library

The Library serves on- and off-campus programs at College of DuPage, providing teaching and learning materials to support and enrich students' educational experience.

The 100,000-square-foot facility in the Student Resource Center on the Glen Ellyn campus provides comfortable seating, individual study space, group study rooms, public computers, and AV equipment for use by students.

The Library houses a wide variety of informational resources for students, faculty, staff and community members. These materials include more than 230,000 books, 700 periodicals, and many non-print materials such as DVDs, music CDs and audiobooks. The Library's web site, www.cod.edu/library, is the gateway to a wide variety of library services and research resources. An online catalog provides easy look-up of library materials. Also available are many specialized research databases with factual information and references to journal, magazine and newspaper articles, many of them full text. These, too, may be accessed remotely by registered Library users. Every public computer in the Library also has full Internet access and a variety of applications such as word processing, spreadsheet and presentation software.

Library services include the circulation of print and nonprint materials, reference service, library and information literacy instruction, interlibrary loan and access to computers. Specialized collections include the College and Career Information Center (CCIC) and the Natural Sciences Center, as well as a large and varied collection of historical and fine art prints displayed throughout the facility.

The Circulation Desk checks out audiovisual equipment to students, faculty and staff. Classroom delivery of equipment is provided upon the request of the instructor.

For more information about the Library and its services, call (630) 942-2350, or visit www.cod.edu/library.

Internet Courses (C.O.D. Online)

Internet or online courses are designed to offer students a flexible, alternative to traditional classes, which eliminates the constraints of fixed class schedules and locations. Students complete their studies at home, work or in one of the C.O.D. computer labs. Although Internet courses are flexible, instructors expect regular participation, computer literacy and student-initiated contact. Some courses require a visit to a testing location for proctored exams. Internet courses contain the same content as the traditional classroom versions and are recorded on the student's transcript in the same manner. Courses needed to complete an associate's degree as well as several certificates are available online. Students who enroll in Internet courses will need access to a personal computer and the Internet. Students should visit the C.O.D. Online web site at www.cod.edu/Online for a current course list and specific technology requirements for Internet-delivered courses.

Continuing Education/Extended Learning

Non-credit classes are offered on campus in Glen Ellyn and at more than 25 off-campus locations, including high schools, local businesses and other location s convenient to you. Contact the Continuing Education Division office at (630) 942-2208 for more information or to enroll or check our web site at: www.cod.edu/conted.

The Continuing Education program offers courses in five specific program areas:

Youth Education Adult Continuing Education Healthcare Education Institute Older Adult Institute Suburban Law Enforcement Academy

Youth Education

The Youth Education Department of Continuing Education offers a year-round, wide spectrum on non-credit academic enrichment and reinforcement opportunities to children and youth from kindergarten through high school levels. The Youth Education program components are:

Kindergarten Teen Extreme Elementary High School Credit Middle School **High School Enrichment**

Explorer Camp Talent Search Girl Scouts Test Prep Home Schooling Tutoring

Sports Camps

Adult Continuing Education

These courses are designed to meet a wide variety of educational needs, including personal and professional development, life enhancement and recreational. They include courses in the following areas:

Actina Knittina Languages Art Makeup Automobile Beverages Massage Computers Music Photography Cooking

Professional Education Dance

Religion Film Sewing Finance **Fitness Test Prep** Gardening Travel Golf **Tutoring** Homes Woodworking Humanities Writing

Jewelry

Healthcare Education Institute

The Healthcare Education Institute creates partnerships with healthcare institutions within the district to identify continuing healthcare education needs and to develop and deliver quality continuing education courses to meet those needs. These courses include courses for nurses, dental hygienists and other healthcare professionals. Courses are currently offered in the following areas:

Clinical Instructor Therapies **CNA Instructor** CPR/ACLS/PALS BLS Renewal **CPR Instructor Training** Dental Hygiene Diagnostic Imaging EKG - 12 Lead First Aid Respiratory Therapy Stress Test

Older Adult Institute

The Older Adult Institute is focused on continuing education for persons 55 years of age and older who seek intellectual stimulation of an academic setting. The Older Adult Institute provides a wide range of educational opportunities for the mature learner to satisfy intellectual curiosity, retool skills for new careers and meet interesting people from a variety of backgrounds. Courses are offered on campus in Building K as well as at senior centers and several other convenient, off-campus locations. The Older Adult Institute offers:

Creative arts course Seminars Physical activities Lecture series Special events

For more information about Older Adult Institute programs and courses, please call (630) 942-2700 or 2701.

Suburban Law Enforcement Academy

The College of DuPage is proud to be the home of one of only six accredited law enforcement academies in Illinois. The Suburban Law Enforcement Academy is comprised of two elements: the Basic Academy and the Law Enforcement Continuing Education program.

The Basic Academy conducts several 11-week cycles each year to train new recruits to become law enforcement professionals. This program is for credit.

The Continuing Education program within the Suburban Law Enforcement Academy delivers a wide variety of non-credit law enforcement training opportunities to qualified law enforcement veterans throughout the district and beyond.

For more information about Suburban Law Enforcement Academy programs and courses, please call (630) 942-2677 or check their web site at: www.cod.edu/slea.

Off-Campus Centers

The six off-campus centers in Addison, Bloomingdale, Carol Stream, Naperville, West Chicago and Westmont provide credit and non-credit classes; counseling, advising and pre-course testing services; and a variety of other college services. In addition to these sites, credit and noncredit courses are offered at several high schools and community sites throughout District 502.

These centers are open day, evening and weekend hours. For more information, call the center that is most convenient to you.

C.O.D. Addison Center 301 S. Swift Road, Addison, IL 60101 Phone: (630) 942-4600

Bloomingdale Center for Independent Learning 162 S. Bloomingdale Road Bloomingdale, IL 60108-1435 Phone: (630) 942-4900

C.O.D. Carol Stream Community Education Center 500 N. Kuhn Road, Carol Stream, IL 60188

Phone: (630) 942-4888 C.O.D. Naperville Center

1223 Rickert Drive, Naperville, IL 60540

Phone: (630) 942-4700

Vasoactive Meds

C.O.D. West Chicago Community Education Center 930 E. Roosevelt Road, West Chicago, IL 60185

Phone: (630) 231-3348 C.O.D. Westmont Center

650 Pasquinelli Drive, Westmont, IL 60559

Phone: (630) 942-4800

Centers for Independent Learning

Students may enroll in flexible, self-paced courses that fit their busy schedules and their lifestyles. Distance learning courses cover the same content and instructional goals as the classroom version and carry the full credit listed in this Catalog. The content is delivered via printed materials, videotapes, audiotapes, computer software, Internet and cable television. Course offerings include 200 courses in 39 subject areas, such as English, Communications, Humanities, Health, Social and Behavioral Sciences, Mathematics, Natural Sciences, and Business and Technology. These courses are listed in the Class Schedule as Flexible Learning Courses. These telecourse and appointment-based courses are offered through the Center for Independent Learning on campus in Glen Ellyn and at three off-campus Centers for Independent Learning in Bloomingdale, Naperville and Westmont.

The centers are open day, evening and weekend hours at the following locations:

Center for Independent Learning — Glen Ellyn Berg Instructional Center (IC) 425 Fawell Blvd. Glen Ellyn, IL 60137-6599 (630) 942-2131 Center for Independent Learning — Bloomingdale 162 S. Bloomingdale Road Bloomingdale, IL 60108-1435 (630) 942-4900

Center for Independent Learning — Naperville Naperville Center 1223 Rickert Drive Naperville, IL 60540-0954 (630) 942-4750

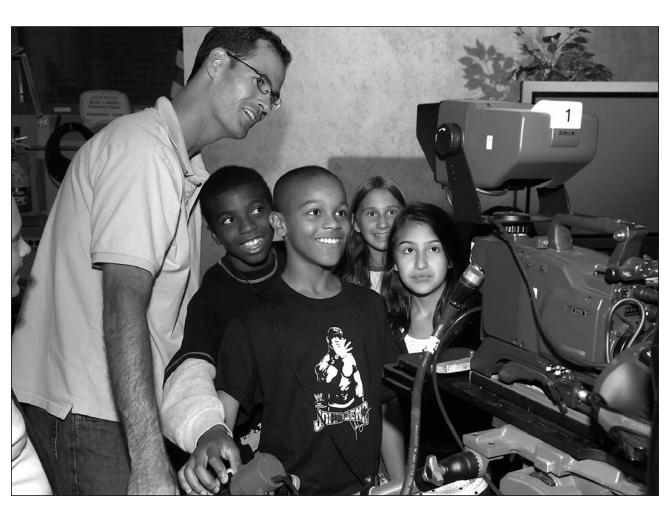
Center for Independent Learning — Westmont Westmont Center 650 Pasquinelli Drive Westmont, IL 60559-1252 (630) 942-4850

Testing Center

Various tests and inventories are available that assist individuals in selecting appropriate courses, completing course requirements, developing educational or career goals, or satisfying a specialized testing need. Information about Credit by Demonstrated Competence is also available from the Testing office. All testing services are available to residents of District 502 as described in the "Getting Started" section of this Catalog. The Testing Center provides flexibility for the students and community members on and off campus.

GED Testing

College of DuPage is the official GED testing site for DuPage County residents. The GED Testing program offers adults who have not completed high school the



opportunity to earn a high school equivalency certificate from the State of Illinois. The GED is offered on a regular basis in both English and Spanish. No formal preparation is required to take the GED examination. However, individuals may take GED courses through College of DuPage to prepare for the GED examination.

For registration information, guidelines and testing schedules, contact the GED Testing office, (630) 942-2852. For information about GED preparation courses prior to taking the final GED exam, call (630) 942-3697 or (630) 942-2551.

Adult Fast Track

Adult Fast Track (AFT) is an accelerated degree or certificate program designed to accommodate the needs of adults who lead busy lives and are seriously committed to continuing their education. AFT currently offers an Associate of Arts (AA) degree, an Associate of General Studies (AGS) degree, an Associate of Applied Sciences in Human Services-Generalist (AAS) degree, and a certificate in Physician Office Coding and Billing. Students accepted into the program attend class once per week for four hours over an approximate two-year period for an associate's degree, and once per week for four hours over an approximate six-month period for certificate programs. Classes are on a consistent schedule, meeting between 6 and 10 p.m. on weekday evenings or 8 a.m. to noon on Saturday morning. While the program is intensive and rigorous, it is manageable for individuals who are highly motivated and self-disciplined. Entry into the AFT program is through a special admission process. Classes are held at the Westmont Regional Center or other C.O.D. sites. For more information, call (630) 942-FAST or log on to www.cod.edu/fast.

Field and Experiential Learning/International Education

The Field and Experiential Learning and International Education program combines major non-classroom college level experiences with classroom content to provide an environment where learning is "hands on." Field and Experiential Learning courses use the world as their classroom. Programs travel to the seven continents of the world, to many local places and throughout the United States.

Adult Education Program

Tuition-free Adult Education classes are funded by state and federal grants. Adult Education classes assist adults in becoming literate, in obtaining knowledge and skills necessary for employment and self-sufficiency, in obtaining educational skills necessary to become full partners in their children's education, and in completing their secondary school education. Eligible participants in the program are adults who are not enrolled or required to be enrolled in secondary school and who lack sufficient mastery of basic educational skills to enable the individuals to function effectively in society; do not have a secondary school diploma or its recognized equivalent and have achieved an equivalent level of education; or who are unable to speak, read or write the English language.

Adult ESL

Tuition-free Adult ESL classes serve adults whose first or primary language is not English and who wish to understand, speak, read and write English for everyday use. Beginning through advanced-level courses are offered at locations throughout the district. This program helps adults engage more fully in the community and the workplace by improving their English skills. For more information, call (630) 942-3697.

Adult Literacy and Basic Skills

Tuition-free Adult Basic Education (ABE) courses serve adults who do not have a high school diploma and who need to develop basic skills reading, spelling, grammar, writing, math or problem solving. Adults reading below sixthgrade level are advised to begin their GED Test preparation here. For more information, call (630) 942-3697.

Pre-GED Preparation

Tuition-free Adult Basic Education (ABE) courses serve adults who do not have a U.S. high school diploma and who need to refine their skills in reading, spelling, grammar, writing, math or problem solving. Many adults begin their preparation for the GED Test in the Pre-GED program. Recommended for adults reading at a 6.0-8.9 level. For more information, call (630) 942-3697.

GED Preparation

Tuition-free General Education Development courses serve adults who lack a U.S. high school diploma, have a 9.0 reading level and need to prepare to take the GED test to earn a High School Equivalency Certificate. Instruction is offered in the six areas covered on the GED Test: Reading, Writing, Mathematics, Science, Social Studies, and the U.S. and Illinois Constitutions. Instruction also prepares students to write the required essay. Instruction is available in English or Spanish. Recommended for students reading at least at a 9.0 level. For more information, call (630) 942-3697.

Online GED Preparation

Tuition-free Illinois State authorized GED-I is used to help students prepare for the GED test via computer under the guidance of a College of DuPage instructor. To qualify for this online course, a student must score 9.0 in reading and 8.0 in math on the required placement test.

ESL Family Literacy

Tuition-free ESL Family Literacy is an integrated program of instruction that helps non-English language background parents learn the English language and other skills needed to become primary teachers for their children and economically self-sufficient. For more information, call (630) 942-3797.

U.S. Citizenship — Adult Secondary Education course This tuition-free course serves adults who are preparing to take the test for U.S. citizenship. It provides an overview of American history; federal, state and local government; U.S. customs, institutions, citizenship rights and responsibilities:

American history; rederal, state and local government; U.S customs, institutions, citizenship rights and responsibilities; and the Illinois and U.S. Constitutions. Instruction is restricted to English. For more information, call (630) 942-3697.

ESL (English as a Second Language) Advising Office

The ESL department's advising office provides English skills assessment, advising and assistance with program planning and course selection for individuals whose first or primary language is not English. ESL faculty advisers work with students to help plan a program of study to meet

individual needs and goals, as well as department and institutional requirements. Call the ESL department office at (630) 942-3796 for current schedule or additional information.

Volunteer Tutor Program for Adult Literacy — People Educating People (PEP)

PEP recruits, trains and primarily places volunteers to support adults enrolled in the college's Adult Literacy (ABE) or Adult ESL classes. Volunteers work with faculty to support students as in-class tutors. PEP tutors also support other department services, including the regular Pre-Term Testing, Advising and Pre-Registration Sessions. The PEP Pre-Service Training Institute prepares volunteers to work with students in Adult Education and is usually required prior to placement. For more information, call (630) 942-3788.

Student Affairs

The mission of the Student Affairs Division is to provide a diverse and global community with learning opportunities, support services and programs that enable individuals to achieve success in meeting educational and career goals, in fostering strong values, in developing leadership and good citizenship, and in enriching their lives. Student Affairs' vision is to be in the forefront among community colleges in providing student support services and to foster an environment that is student-centered and teamoriented, providing initiatives to enhance lifelong learning.

The Student Affairs Division provides a number of educational support services designed to assist the student before, during and after matriculation into academic life at College of DuPage. The basic philosophy of each area is to provide convenient and accessible services to enhance the educational experience at C.O.D. Programs are designed to assist students in becoming effective, self-supporting and active learners with an appreciation for what they and others have to offer.

The Admissions and Information office provides prospective students with information about how to get started at College of DuPage, programs of study, services available and transfer information. Prospective students wishing to enroll in credit classes can submit an Admission Form online or request a paper copy to complete. The Information office answers basic questions about the college, its programs, courses, services, activities, current events, international student admissions, registration, faculty and facilities. Brochures about academic programs and student services, the *Catalog* and the *Class Schedule* are provided to students and community members upon request.

Registration for credit classes is provided through the Registration office online, and in person. Other services include withdrawal from classes, special registrations, late registration, refund appeals and change of student information.

The Records office processes student requests for transcripts, petitions for a degree or certificate, and verifies student enrollment for employers, loan deferments and insurance purposes. Evaluation of transcripts from other institutions specifying credits accepted by College of DuPage are furnished upon request. Final grades can be accessed online or a printed grade report may be requested if needed for verification. A student can run a

degree audit online reporting progress toward completion of a degree or certificate, or one may be requested through the Records office.

A number of student financial assistance programs are available from federal, state and local sources through the Student Financial Aid office. A number of scholarships are available through the College of DuPage Foundation and other sources. Students are urged to contact the Student Financial Aid office to apply for these scholarships. Advice and counseling on financial aid options to meet educational expenses are also available.

Career-related services are available through the Career Services Center. Opportunities are available to explore fields of study, earn credit and receive pay through participating in Cooperative Education and internships. Students can enroll at any time during the academic year. Other special services available from Career Services specialists include individual assistance with resumes, interviewing skills, and tips on networking and job leads. Also, up-to-the-minute job information is available, as well as on-campus recruiting by local, state and national employers. In addition, service-learning opportunities are available through the Career Services Center.

The Student Activities staff provides support and resources for student clubs and organizations sponsoring a variety of programs, services and experiences that parallel and reinforce classroom instruction. A Leadership Development Program consisting of retreats and speakers is sponsored by the department. The annual commencement ceremony is coordinated by the staff. A variety of discount tickets are sold through this office, including Pace bus passes and movie tickets.

Counseling and Advising Services provides a wide array of counseling and advising services to students. Counseling services include educational, career, personal development and life transition counseling. Counselors also teach credit-granting course work in interpersonal skills and in career development.

Advising Services provides advising information to students and resources and consultation to faculty. General information about the college, advising resources and transfer materials are available in print form in the Counseling and Advising Center (SRC) or can be accessed online using the C.O.D. web site. General advisers are available in the Advising Center to assist students on a walk-in or phone-in basis. Specialized advising is also made available, including transfer, multicultural and developmental education advising.

Advice and assistance with health concerns and educational services for students with special needs, including physical or learning disabilities, are available through the Health and Special Services office.

The Athletic Department has one of the most successful community college athletic programs in the nation, winning numerous national, district and regional championships. Student-athletes find an all-around quality program here, complete with winning athletics and academics. Intercollegiate sports for men include baseball, basketball, cross country, football, golf, soccer, swimming and diving, tennis, and track and field. Intercollegiate sports for women include basketball, cross country, soccer, softball, swimming and diving, tennis, track and field, and volleyball. The Intramural Sports program provides students, faculty and staff the opportunity to



participate in a variety of competitive or recreational sports activities. Contact the Athletic Department, (630) 942-2365, for more information.

Definitions

Academic Support Center

The Academic Support Center, located in the Berg Instructional Center (IC), Room 3040, is a convenient, one-stop location for student support services in the areas of mathematics, writing, speech, reading and peer tutoring assistance. The services are free of charge and are meant to assist students who may be having difficulty completing their coursework in one or more classes. The center is staffed with college faculty and peer tutors. Students may access the services by scheduled appointments or walk-in. For questions about the Academic Support Center, call (630) 942-3941.

Admissions Specialists

These professional staff members provide information to prospective or newly admitted students about academic programs, student services, and steps to getting started at the college. Contact the Admissions and Information office, (630) 942-2380.

Adult Continuing Education

A program of study that provides a broad range of noncredit courses and workshops on campus in Glen Ellyn and throughout the College of DuPage District in the areas of career enhancement, personal development and investment, conversational foreign languages and cultures, home improvement, sports and fitness, and fine arts. Special event workshops are also offered featuring nationally recognized professionals and guest speakers. Continuing Education Units (CEUs) and Continuing Professional Education credits (CPEs) and certificates are available for many of these non-credit courses.

Adult Fast Track

Adult Fast Track (AFT) is an accelerated degree or certificate program designed to accommodate the needs of adults who lead busy lives and are seriously committed to continuing their education. AFT offers AA, AGS and AAS degrees and a certificate in Physician Office Coding and Billing. Program schedules are consistent with classes meeting for one four-hour weeknight or weekend morning per week. Degree programs can be completed in as little as two years and certificates within six months.

Advanced Placement

Advanced Placement courses are those offered through high schools in cooperation with the College Board. Students will be eligible for credit in designated college-level courses at C.O.D. with an acceptable score.

Advising

College of DuPage has established an Academic Advising System to serve the needs of all students. Full-time faculty advisers assist students specific to the faculty's subject area. Counselors provide academic advising to students who are undeclared or undecided regarding a field of study. General advisers assist students with advising questions not specific to a major, explanation of degree requirements and refer students to other College of DuPage services.

American College Test

College of DuPage is a national test site for the American College Test (ACT). ACT examinations are offered periodically throughout the year in accordance with ACT national test dates. For further information concerning the ACT examination, contact the Assessment and Testing office, (630) 942-2401.

Articulated Credit

Articulated credit is C.O.D. credit for matching courses at the secondary level of instruction. Articulated agreements with the high schools are updated by faculty and administrators on an annual basis.

Associate's Degree

College of DuPage awards eight different associate's degrees: Associate in Arts, Associate in Science, Associate in Engineering Science, Associate in Applied Science, Associate in General Studies, Associate in Fine Arts — Art Option, Associate in Fine Arts — Music Option, and Associate in Teaching — Secondary Mathematics; refer to Degree Requirements in this Catalog.

Basic Skills

Courses for adults who lack a high school diploma to develop literacy, reading, spelling, English grammar, writing, math and problem-solving skills. Also see ABE.

Broken Enrollment

Enrollment is broken in any semester in which a grade of A, B, C, D, F or S in an undergraduate class is not recorded in the student's record. When enrollment is broken for more than three consecutive semesters, including Summer semester, the student is subject to all conditions outlined in the College of DuPage *Catalog* current at the time of re-entry.

Career Services

Career Services assists students with resume writing, interviewing and job-search strategies. Information is available about area employers, along with a listing of full- and part-time jobs.

Center for Entrepreneurship

The Center for Entrepreneurship houses the economic development arm of the college. Through the Illinois Small Business Development Center, International Trade Center and Procurement Technical Assistance Center, district businesses can access a multitude of business assistance resources. In addition, a range of short-term courses, seminars and conferences on a variety of business development topics are offered. For more information, call (630) 942-3775 or (630) 942-2771.

Centers for Independent Learning (CILs)

The Centers for Independent Learning (CILS) offer a variety of courses in alternative delivery formats, including skill development in mathematics, reading, communication and study skills. The centers are located in Bloomingdale, Glen Ellyn (on campus), Naperville and Westmont.

Certificate Program

Certificate programs are designed for students not currently pursuing an associate's degree but who desire certification of career or technical skills in a faster, focused program.

CEU (Continuing Education Unit)

A Continuing Education Unit (CEU) is a nationally recognized, standardized unit of measurement that provides a record of a person's continuing professional development when attending non-credit workshops and/or seminars. One CEU is granted for each 10 hours of class time.

Chargebacks/Joint Agreements

This program enables students to enroll at other approved Illinois community colleges in occupational degrees and certificates that are not offered at C.O.D. If authorized.

students may attend the approved Illinois community college at in-district tuition rates. An approval letter can be obtained from the Admissions and Information office, (630) 942-2441.

Class Schedule

This publication contains the course schedule and registration information for each semester along with selected articles, calendars and college policies. It is available through the Admissions and Information office, the Registration office, and the Counseling and Advising office. In addition to its printed editions, the *Class Schedule* is available online; in student services areas such as Registration, Admissions and Counseling; and at numerous libraries and C.O.D. Centers throughout District 502. The College of DuPage home page address: www.cod.edu.

CLEP (College-Level Examination Program)

The College Board sponsors this national program through which a student may receive college credits for knowledge or experience. College of DuPage serves as a national testing center for CLEP through Assessment and Testing Services.

College of DuPage Off-Campus Centers

College of DuPage has six off-campus centers to serve students. See list on page 16.

Community Education Sites

More than 80 off-campus teaching facilities provide district residents with convenient college programs and services located in their communities.

Cooperative Education/Internship

An academic course that allows transfer and occupational students the opportunity to acquire realistic, hands-on, career-related job experience while earning elective credit. The grade is based on completing goals developed by the student, employer and faculty adviser, as well as evaluations by the supervisor and co-op faculty adviser.

Course Overload

Students who wish to enroll for 20 to 24 or more credits must have approval from a general adviser or counselor. Students who wish to enroll for 25 or more credits must seek approval by making an appointment with a counselor.

CPE (Continuing Professional Education)

A Continuing Professional Education (CPE) unit is a nationally recognized, standardized unit of measurement that provides a record of a person's continuing professional development when attending an approved organized program of formal learning that contributes directly to the knowledge, ability or competence to perform one's professional duty. One CPE is granted for every 50 minutes of class time.

Credit by Demonstrated Competence

This program provides the opportunity for students and community residents to earn college credit for knowledge acquired in a variety of non-traditional settings.

Degree Audit

A computerized report of a student's progress toward a specific degree or certificate, including degree requirements satisfied, outstanding requirements, and specific courses or other methods that will fulfill the outstanding requirements.

Dual Credit

Dual credit provides high school students the opportunity to enroll in courses for which they receive both college credit and high school credit. Dual credit agreements are updated by faculty and administrators on a yearly basis.

Financial Aid

Grants, loans and student employment assistance at C.O.D. are based on a student's financial need and eligibility. Further information and applications are available in the Office of Student Financial Aid.

Full-Time Students

Students registered for 12 or more credits in a term are considered full-time.

Grade Point Average

A grade point average (GPA) is determined by dividing the grade points earned by the credit hours attempted, excluding courses graded "S," "I," "R," "W," "X," and below 1000-level courses. Grade points are determined by multiplying the hours of the course by the value of the grade. The semester GPA reflects grades in each semester; the cumulative GPA reflects all grades earned at College of DuPage. See page 56 for grade point value of each letter grade.

IAI (Illinois Articulation Initiative)

Illinois Articulation Initiative is designed to facilitate the transfer of students from one Illinois institution to another. Both a general education core curriculum and selected baccalaureate recommendations for majors have been implemented state-wide.

Library

A facility in the Student Resource Center that provides learning resources in all formats as well as computer workstations, audiovisual equipment, and study space to students, faculty, staff and community borrowers. The Library provides reference and information services, instruction and assistance in the use of the Library and all types of information resources. The Library provides a number of services to off-campus students as well.

Math Assistance Area

A college facility that provides short-term, walk-in math assistance for students enrolled in C.O.D. math courses from Mathematics 0460 to Mathematics 2232.

Non-Credit Course, Seminar or Workshop

These instructional activities normally do not last a semester, are designed to present a special topic or skill, and are not part of a degree program. They are not recorded on the academic record.

Off-Campus Centers

Credit and non-credit courses are offered at neighborhood locations throughout the district. See page 16 for details.

Older Adult Institute

Older Adult Institute (OAI) offers workshops, a lecture series and non-credit activities. They are offered, but not limited to, adults 55 years and older. OAI is located on campus in Glen Ellyn. Additional programming is available at neighborhood locations throughout the district.

Part-Time Students

Students registered for less than 12 hours in a term are considered part-time. Six hours are required for half-time status.

PEP (People Educating People) Volunteers

PEP recruits, trains, places and supports volunteers to tutor adults enrolled in the ABE or Adult ESL programs and to support other department services.

Placement Testing

Tests in the areas of reading, writing and mathematics are given to entering students to determine the appropriate placement into courses. Students accumulating six or more credits must meet the Reading Competency Requirement. The Reading Placement Test is one way to meet this requirement. Students are also required to take a placement test before registering for English 1101 or Mathematics 0482, 1102, 1115, 1218, 1220, 1428, 1431, 1432, 2134 or 2231.

Pre-Baccalaureate Program

Students may complete the first two years of college study for bachelor's degrees at College of DuPage. Many different programs of study are offered in this university-parallel program.

Prerequisite

A prerequisite is a listed course or requirement that must be completed prior to attempting some other course or task. Before registering for any course with a listed prerequisite, students are expected to have met the prerequisite requirement(s). Failure to meet the prerequisite will result in withdrawal.

Reference Service

Reference staff is available all times the Library is open to provide individual reference assistance to users, including research consultation and assistance with electronic sources of information. In addition, they provide instruction to classes and individuals in the use of the Library and information resources. Reference service is available: in the Library; by telephone at (630) 942-3364; through the web site at www.cod.edu/library/research/askalib.htm; by e-mailing askalib@cod.edu; or through instant messaging.

Refunds

See pp. 27 and 28 for complete refund information.

Semester Hours

College of DuPage grants credits in semester hours. Prior to Fall Semester 2005, credits were granted in quarter hours.

Suburban Law Enforcement Academy (SLEA)

The Suburban Law Enforcement Academy provides the highest quality training to meet the needs of law enforcement agencies. This includes basic police training, as well as continuing education for law enforcement personnel.

Tutoring

The Peer Tutoring Program, located in the Academic Support Center, provides course-based tutoring to eligible students free of charge for a variety of C.O.D. courses. Sessions are conducted in an environment conducive to learning: on campus in Glen Ellyn, other select C.O.D. locations and online at bb.cod.edu.

Variable Credit Courses

Specific courses may be offered for a differing number of credits. These courses are listed as variable 1 to 6 in this *Catalog*. Consult the *Class Schedule* for the specific credits offered during a particular term.

90.9fm WDCB Public Radio

The college's public radio station broadcasts in stereo on 90.9fm — and on the web at WDCB.org — 24 hours a day, seven days a week. WDCB is Chicagoland's only daytime jazz station, and also offers a wide variety of music, news and information.

The Writing and Reading Center

A college facility that offers student, faculty and staff writers individual assistance ranging from idea generation to final draft, and provides all student readers with academic resources and strategies that strengthen their reading and study skills.

Youth Education

Students ages 4 through high school are invited to enroll in a variety of non-credit programs designed to supplement regular school instruction. Program areas include Talent Search, The Institute of World Languages and Scholars Academy.

Zero-Level Courses

Courses with numbers lower than 1000 are offered for developmental or continuing education. These credits do not apply toward degrees or certificate programs. They do not transfer and are not part of a student's official grade point average. They are recorded on the student academic record.









Getting Started

Admissions Policies and Procedures

Admission is open to anyone who is a high school graduate, has earned a GED or is at least 18 years old and can benefit from college-level instruction. Admission can be granted to others by the Coordinator of Admission Services (Board Policy 5101). The college will not discriminate in its programs and activities on the basis of race, color, religion, creed, national origin, sex, age, ancestry, marital status, sexual orientation, arrest record, military status or unfavorable military discharge, citizenship status, physical or mental handicap or disability (Board Policy 5010).

Prospective students should apply to the Admissions office well in advance of their expected starting date. Registration priority is given to early applicants. Applications are available online at www.cod.edu, in this *Catalog*, or in the Admissions and Information office.

Students should submit official transcripts from high schools and colleges they have attended. Students should make a formal request to the Records office to have their transcripts evaluated to determine successful completion of prerequisites, to allow registration in C.O.D. courses and/or for evaluation of previous college credits earned for application toward a degree or certificate at C.O.D. To request an evaluation applicants should go online at www.cod.edu, and click on "Records" and then "Transfer Evaluation," or call (630) 942-3829.

No tests are required for admission; however, test information is helpful to college advisers who assist students with their educational planning. Therefore, students are encouraged to take national college entrance tests such as the ACT. Placement tests in reading, writing and mathematics are required.

FYI (For Your Information) and CVD (Campus Visit Day) Sessions

One-hour information sessions are provided for prospective or newly admitted students. Included is information about getting started at the college, programs of study, services available, transfer information and answers to your questions.

For more information, contact the Admissions and Information office, Student Resource Center (SRC), (630) 942-2380.

College District Residency

Towns and villages in the College of DuPage district are:

Addison Flowerfield
Argonne Labs Glen Ellyn
Aurora* Glendale Heights
Bensenville Hanover Park*
Bloomingdale Hinsdale
Bolingbrook* Hodgkins

Brookfield* Indian Head Park

Burr Ridge Itasca
Carol Stream* Keeneyville
Clarendon Hills La Grange
Countryside La Grange Park

Darien Lemont
Downers Grove Lisle
Elk Grove Village* Lombard
Elmhurst McCook
Eola Medinah
Fermilab Naperville

Northwood Western Springs Oak Brook Westmont Oakbrook Terrace Wheaton Plainfield* Willow Springs* Roselle* Willowbrook Villa Park Winfield Wood Dale Warrenville West Chicago* Woodridge

*Only portions of these communities are in District 502. Call Admissions and Information at (630) 942-2380 for detailed information.

1. In-District Resident

Students, excluding "International Residents" as defined below, who have occupied a dwelling within District 502 for at least thirty (30) days immediately prior to the beginning of the term will be classified as in-district residents.

2. Out-of-District Resident

Students, excluding "International Residents" as defined below, who do not occupy a dwelling within District 502, but have resided within the State of Illinois for at least thirty (30) days immediately prior to the beginning of the term are classified as out-of-district residents.

3. Out-of-State Resident

Students who have not occupied a dwelling within the State of Illinois for at least thirty (30) days prior to the beginning of the term are classified as out-of-state residents.

4. International Resident

Students whose permanent residences are outside the United States and who wish to attend College of DuPage while on a valid student visa, or other visa or visa waiver program that permits them to attend school while in the United States, are classified as international residents.

5. Exceptions to 1, 2 and 3

Students who obtain residence within the College of DuPage district for reasons other than attending College of DuPage are exempt from the 30-day requirement if they provide documentation of a verifiable interest in establishing permanent residency. The Registration office makes the final determination of residency status.

Student residency classifications will be in accordance with provisions of the Illinois Community College Act and guidelines established by the Illinois Community College Board.

Registration Procedures

Registration Appointments for Credit Classes — New Students

If you have submitted an Admission Form to the Admissions and Information office, your registration eligibility will be based on the date your Admission Form was received in the Admissions and Information office.

For more information, call the Admissions and Information office at (630) 942-2482.

Returning Students

Your registration date will be based on the number of credit hours that you have accumulated at C.O.D. Check myaccess.cod.edu for credits earned.

If you are a returning student, but were not enrolled at College of DuPage for the previous term, call the Registration office, (630) 942-2377, for your registration eligibility.

Late Registration

After the first scheduled class meeting, you must obtain written permission from the instructor to register for a class. Registration is not permitted after the midpoint of the session.

Non-Credit Classes, Seminars and Workshops

You may register for non-credit classes, seminars and workshops anytime between the beginning of the registration period and up to the second meeting of your class.

Ways to Register

When eligible to register, students may register in one of two ways.

Online Registration by Internet (myaccess.cod.edu)
 To use the Online Registration, you must be an admitted or returning student with a Colleague Student I.D. The student I.D. number is sent in your C.O.D. acceptance letter.

2. In Person

Visit the Registration office in the Student Resource Center during office hours.

Registration Assistance

If you need help with your registration, call (630) 942-2377 and press "4".

Adding Courses

A class may be added only up until the first scheduled class meeting. After the class begins, written permission from the instructor is required in order to register. Credit classes cannot be added after midpoint of the class.

Auditing a Class

Intent to audit a class must be indicated at the time of registration and the higher audit tuition charge will be assessed. After the class begins, written permission from the instructor is required in order to audit a class. Students may not request to audit a class after midterm. The audit grade of "X" is recorded on the permanent academic record: No credit is earned and the audit grade does not affect the grade point average (GPA).

Overload

Students wishing to register for 20 or more credits during any term must have written permission from a counselor or adviser in Counseling and Advising Services, or the dean or associate dean in their academic area.

Withdrawal From Credit Classes

You may withdraw from a course up to the midterm date of the class. Withdrawal may be made by Online Registration or in person at the Registration office. After that date you may withdraw only with written permission from your instructor, which must be brought to the Registration office or faxed to (630) 790-3785. If you are not withdrawn through the Registration office before the end of the term, your grade will be recorded as an "F." Check the Registration schedule online (www.cod.edu) or the *Class Schedule* for information on dates for withdrawal.

Withdrawing From Credit Classes Due to a Medical Reason

Direct your request for a medical withdrawal to the office of the Director of Admissions, Registration and Records, (630) 942-4284. Requests should be made in writing and accompanied by documentation from a physician or medical institution to verify the medical condition, date of onset and estimated length of treatment. Medical withdrawal forms are available in the Registration and Health Services offices, online (www.cod.edu/AdRegRec/Register/forms.htm) and by calling (630) 942-4284. Requests for medical withdrawals are reviewed individually. Refunds are issued when appropriate within the guidelines of the College of DuPage refund policy. You will receive written notification of the decision within two to three weeks from the office of the Director of Admissions, Registration and Records.

Withdrawing From Adult Non-Credit Classes, Seminars and Workshops

You may withdraw up until the end of the class, seminar or workshop.



Tuition and Fees for Credit Classes Admissions/Recording Fee

A \$20 non-refundable admission fee is charged the first time a student applies to the college for credit courses. The fee is not charged to district residents age 65 or older.

In-District Tuition

Students who meet the criteria of an in-district resident pay in-district tuition.*

Out-of-District Tuition

Students who meet the criteria of an out-of-district resident pay out-of-district tuition.*

Out-of-State Tuition

Students who meet the criteria of an out-of-state and/or international resident pay out-of-state tuition.*

Special Tuition Categories

1. Employed Full-Time In-District

Students whose permanent residence is outside of College of DuPage district, but who work 35 or more hours within District 502, are charged in-district tuition upon presenting the proper documentation to the Registration office. For more information, contact the Registration office at (630) 942-2377.

2. Cooperative Agreements/Chargebacks

Illinois residents whose permanent residence is outside of District 502 may be eligible to pay in-district tuition through a cooperative agreement or chargeback if their local community college does not offer a certificate or degree program offered at College of DuPage. For more information, students should contact the Admissions office of their local community college at least 30 days prior to the start of a semester.

3. Senior Citizens

Senior citizens (age 65 or over) whose permanent residence is within District 502 pay a reduced tuition rate.* Students 65 years of age and older may receive free tuition if their annual household income is less than the threshold amount in Section 4 of the Senior Citizen Tax Relief Act.

4. C.O.D. Online Courses

Students who register for C.O.D. Online courses are charged in-district tuition regardless of their residency.

Students who audit courses (taken for no credit) are charged a higher tuition rate.*

Service Fee

A service fee is included in the tuition for each semester credit hour.*

Payment Plan Fee

Students who choose the payment plan are charged a payment plan fee. An additional fee is assessed per semester should an automatic bank payment or credit card payment be returned.*

Returned Check/Charge Card Fee

Students are charged a fee for each check or charge card rejected by the bank.*

Laboratory/Material Fees

Certain courses require the payment of laboratory fees. Lab fees are printed in the class listing of the Class Schedule.*

*Current tuition rates and fees are printed in the *Class Schedule* and are available online.

Refunds

Tuition Refunds for Credit Classes

Students seeking tuition refunds for credit classes shall be reimbursed according to the procedure printed in the current *Class Schedule* and online under Registration, Registration Calendar and Refund Dates (www.cod.edu/adregrec/register/calendar.asp).

Refunds for Adult Non-Credit Classes, Seminars and Workshops

100 percent (less a service fee) up to seven calendar days before the start of the seminar, workshop, or adult noncredit class. NO REFUND is granted after that time.

Refunds for Youth Education Classes

100 percent (less a service fee) prior to the first class meeting. 50 percent refund thereafter until the midpoint of class; there is no refund for withdrawal after the midpoint of the class.

Refunds for Grant or Loan Programs

Refunds will be made according to College of DuPage policy unless the federal or state grant or loan program has a refund schedule that differs from that of the college. In such cases, the college will follow the grant or loan refund schedule.

Canceled Classes, College Errors

A 100 percent refund is given for a withdrawal that is caused by a canceled class or a college error. If a substitute class is not taken, a refund will be issued within two to three weeks.

Medical Withdrawal

Direct your request for a medical withdrawal to the office of the Director of Admissions, Registration and Records, (630) 942-4284. Requests should be made in writing and accompanied by documentation from a physician or medical institution to verify the medical condition, date of onset and estimated length of treatment. Medical withdrawal forms are available in the Registration and Health Services offices, online (www.cod.edu/AdRegRec/Register/forms.htm) and by calling (630) 942-4284. Requests for medical withdrawals are reviewed individually. Refunds are issued when appropriate within the guidelines of the College of DuPage refund policy. You will receive written notification of the decision within two weeks from the office of the Director of Admissions, Registration and Records.

Admissions/Recording Fee

No refund will be made of the admissions/recording fee.

Course-Related Fees, Lab Fees

Students who withdraw from credit classes that have fees will receive refunds according to the procedure printed in the current *Class Schedule* and in the online Registration Calendar and Refund Dates (www.cod.edu/adregrec/register/calendar.asp).

Refund Appeals

Appeals regarding refunds should be made in writing. Forms for appeals are available in the Registration office or online (www.cod.edu/AdRegRec/Register/forms.htm).

- Contact the associate dean of the appropriate divisional office in regard to a tuition refund for an instructional issue.
- Contact the Continuing Education office at (630) 942-2208 for refunds regarding Youth Education, Adult Non-Credit, Seminars or Workshops.
- For all other types of tuition refund appeals, contact the Registration office at (630) 942-2377. The mailing address is 425 Fawell Blvd., Glen Ellyn, IL 60137; FAX (630) 790-3785.

Refund Disbursement

All refunds will be issued from the Accounts Payable department by check to the student within two to three weeks of the refund request. Credit card payments will be refunded to the credit card. No refund will be generated if the student account is on "hold."

Please note: There are some classes that vary from the regular term dates. These classes are so noted in the *Class Schedule*. Dates for refunds, withdrawals and so forth will vary proportionately.

Counseling and Advising Services

At College of DuPage, advising and counseling are two separate but complementary services. Counselors, faculty advisers, and general advisers are available to help students succeed in attaining their educational goals. It is very important to understand the different types of assistance available from each so that the most appropriate help may be chosen. Review the description of services that follows. For further referral assistance, call the Counseling and Advising Center at (630) 942-2259 or stop by the office in the Student Resource Center (SRC).

Counselors

Counselors provide academic advising to students prior to their choice of a field of study. Counselors offer a variety of support in different areas and are available to prospective students and enrolled students. Some of these areas include:

- Educational counseling can assist students in exploring motivation and skills necessary for achieving educational goals.
- Career counseling helps students increase their understanding of the personal qualities that one brings to a career decision. These qualities include values, interests, skills, needs and personality style. In addition, techniques for gathering occupational information and steps in effective decision making are addressed.
- Personal counseling typically includes assisting the student in exploring attitudes, beliefs, feelings, and/or values in order to learn to manage personal concerns that interfere with educational or career goals; developing problem-solving and decision-making skills; and linkage with community or private resources when needed
- Life transition counseling is valuable for students who are undergoing or contemplating a major change connected with their educational goals. Concerns for counseling may include time management and learning

how to balance multiple roles, family and other responsibilities and work obligations.

Group Counseling/Workshops

Special interest group sessions are offered by counselors on a variety of topics. Information on upcoming sessions and sign-up is available in the Counseling and Advising Center, or call (630) 942-2259.

Through counseling, students can learn how to enhance self-image and self-esteem, deal with feelings of loneliness and anxiety, and explore new ways of handling problem situations.

Counselors are interested in every student and have time specially allotted in their schedules for conferring with students. For this reason, it is best to make an appointment so that enough time can be set aside. Either daytime or evening appointments can be scheduled with counselors. For a counseling appointment, call (630) 942-2259.

Faculty Counselors Faculty Advisers/Classroom Teachers

All College of DuPage full-time faculty members are faculty advisers. Students who are fairly certain about their major should consult with a faculty member who teaches in their area of interest. Faculty advisers assist students with planning a program of study in their area of interest, course selection specific to their field of study, career information, specific program requirements and transfer planning. Students who need help selecting or identifying a faculty adviser may stop by the Counseling and Advising Center in the Student Resource Center (SRC) or call (630) 942-2259 for a referral.

General Advising

As you start your first term at College of DuPage, general advisers will provide advising not specific to a particular major. Advisers explain degree requirements, pre-course testing clarification and interpretation, familiarize students with college policies and procedures, assist with general course selection, transfer planning information, and make referrals to other college resources. General advisers primarily work with students from their first registration until they accumulate 30 semester-hours of college level credit, or until a student determines their major. Students may stop by Counseling and Advising Services, Student Resources Center (SRC), or call (630) 942-2259, to speak with an adviser, no appointment necessary.

Appointments

Both faculty advisers and counselors are interested in every student and have time specifically allotted in their schedules for conferring with students. For this reason, it is best to make an appointment so that enough time can be set aside. Either daytime or evening appointments can be scheduled with counselors.

Faculty advisers may be contacted directly in their offices to set up appointments, or messages may be left for them at division offices.

For a counseling appointment, call (630) 942-2259.

New Student Orientation — Spring or Summer Semester

A new online orientation process has been developed to assure that each of the new students at College of DuPage makes a smooth adjustment to college life. Students can "visit" the campus any time, at their convenience. The online presentation covers all of the "need-to-know" information that is provided during Fall on-campus sessions, such as admissions, assessment, advising, counseling, registration, and other support services. The online session may be found at the Counseling and Advising home page from www.cod.edu. Click on the New Student Orientation icon.

A CD-Rom is also available. After viewing the online session, if you'd like a copy of your own, you may call the Counseling and Advising office at (630) 942-2259, leave a message that includes your address and a CD-Rom will be sent to you.

New Student Advising — July/August OARS for Fall Semester

Students planning to register for classes for the first time are strongly encouraged to attend Orientation, Advising and Registration Sessions (OARS) and speak with an adviser. Dates and times of special Advising sessions designed for new students are listed in the *Class Schedule*.

Graduation Planning

The official determination of a student's status relative to graduation is made through the Records office. Students should file a Petition for Degree or Certificate no sooner than two semesters before expected completion, so that evaluation results will be available for planning their last semester. Advisers and counselors, while not graduation evaluators, are knowledgeable about graduation requirements and can assist students with understanding graduation requirements, interpreting the graduation evaluation report, planning so that all requirements are met, or with resolving unanticipated problems.

Group Counseling/Workshops

Special interest group sessions are offered by counselors on a variety of topics. Information on upcoming sessions and sign-up is available in the Counseling and Advising Center, or call (630) 942-2259.

Counseling and Advising Center

The Counseling and Advising Center, located in the Student Resource Center (SRC), provides advising information to students and faculty. General information about the college, advising resources and transfer materials are available in print form or can be accessed online using the computers in the Counseling and Advising Center. Students may pick up copies of the *Catalog*, the *Class Schedule*, marketing guides that provide overviews of fields of study and *Student Planning Worksheets* for keeping track of courses taken and degree requirements. Transfer information and applications, specific to individual four-year Illinois colleges and universities to which students most frequently transfer, are available in the Counseling and Advising Center.

Off-Campus Counseling Services

For students' convenience, counseling services are available at several community locations within District 502.

These centers are:

- C.O.D. Addison Center, (630) 942-4600
 C.O.D. Bloomingdale Center (Town Square of Bloomingdale), (630) 942-4900
- C.O.D. Carol Stream Community Education Center, (630) 942-4888
- C.O.D. Naperville Center, (630) 942-4700
- C.O.D. Westmont Center, (630) 942-4800

Career Development and Personal Growth Courses

In addition to the direct counseling services available to students, the college offers two courses, Education 1105, Career Development, and Education 1110, Interpersonal Skills for Life and Work.

The emphasis in Education 1105 is on career development with important life choices. Students learn to make career decisions and take career action. The course provides for interest assessment as well as researching the world of work to help students become better equipped to make systematic and effective career choices.

In Education 1110, small-group interaction focuses on understanding students' communication styles, exploring new options, and increasing awareness of self-defeating behaviors. Improved skills lead to greater effectiveness in life and work situations, heightened self-esteem, and greater sense of control over one's life.

The college also offers a two credit-hour course listed as Education 1115, *College Success Skills*. Primarily for new students, this course is an introduction to academic success skills necessary for meeting the challenge of a college education. Students explore and become familiar with resources and strategies that include note-taking, listening skills, test preparation, time management and goal setting.

Career-Related Testing Interest and Personality Inventories

College of DuPage offers a variety of interest and personality inventories. These inventories assist people in determining their interests and personality style. An appointment with a counselor is required in order to determine which tests, if any, are appropriate for an individual's needs and for the interpretation of results. There is a moderate fee charged for career interest and personality assessments. For more information about the types of interest inventories available, make an appointment with a counselor by calling Counseling and Advising Services, Student Resource Center (SRC), Room 2044, at (630) 942-2259.

These inventories are also available at an off-campus counseling location. Students can make an appointment to meet with a counselor off campus by calling or stopping by an off-campus counseling location.

"How to Start" Overview

This chart of procedures will serve as a step-by-step reference whether you are beginning, continuing or completing your studies at College of DuPage.

New Students

- 1 Obtain and complete an Admission Form by contacting the Admissions and Information office, (630) 942-2442 or by Internet (www.cod.edu).
- 2 Submit the Admission Form to the Admissions and Information office by Internet, in person, or by mail. (A \$20 non-refundable admission fee is required the first time a student applies to the college for credit courses.)
- 3 If you submit your Admission Form prior to the first date of New and Returning Student Registration, you will receive an acceptance letter approximately one week after your application was received. You will be notified as to when you are eligible to register for credit classes.
- 4 If you submit your Admission Form during New and Returning Student Registration, you will receive an acceptance letter that indicates when you are eligible to register for credit classes.
- If you submit your Admission Form during Final Registration (within 10 days of the start of the term), you will be eligible to register immediately upon processing of your form. You will be notified of the earliest date and time you are eligible to register for credit classes.
- 6 Obtain and read information such as the Catalog, Class Schedule and marketing guides, or check online at www.cod.edu.
- Attend an Information Session through the Admissions and Information office to help you learn about the many college programs and services and to tour the campus. If this is not convenient, schedule a one-on-one appointment with an admissions specialist. To reserve a space in an Information Session or to schedule an appointment, call the Admissions and Information office, (630) 942-2380.
- **8** Take the appropriate pre-course assessment tests in reading, writing or mathematics. No special preparation is necessary; however, a photo ID is required. For more information, check the current *Class Schedule* for times and locations.
- 9 Obtain New Student Advising (if desired) for help in selecting your first term courses. No appointment is necessary. Check the current Class Schedule for times and location. For more information, check p. 28 of this Catalog, check the current Class Schedule, contact the Counseling and Advising

- office, (630) 942-2259, or check online at www.cod.edu/advising/general.htm.
- 410 Attend New Student Orientation to familiarize yourself with programs and services available to help students meet their educational goals and to get a good start at College of DuPage. Check the current Class Schedule for times and location. For more information, contact the Counseling and Advising Center, (630) 942-2259, or check online at www.cod.edu/advising/ newstudent.htm.
- 11 Register for classes at the earliest eligible date and time. You may register online at www.myaccess.cod.edu. You may also register in person. If you need assistance, call (630) 942-2377, press "4."
- 12 Your schedule may be viewed and printed online at www.myaccess.cod.edu. No schedules will be mailed.
- Pay for your classes by payment due date or sign up for the FACTS Payment Plan. For more information, contact the Cashiers office, (630) 942-2206, or check online at www.cod.edu/facts/.
- 14 For future terms, consult with a faculty adviser, counselor or general adviser to plan the rest of your courses. For more information, contact the Counseling and Advising Center, (630) 942-2259, or check online at www.cod.edu/advising/general.htm.

Returning or Continuing Students

- 1 Review courses you've already taken and read the *Catalog*, *Class Schedule* or marketing guides, available at both on- and off-campus locations, online at www.cod.edu, or by calling the Admissions and Information office, (630) 942-2380, to have them mailed to you.
- 2 If you have earned 35 or more credits at College of DuPage and want to earn a degree or certificate, you may run your own degree audit by going online at www.cod.edu/AdRegRec/Records.
- 3 Take the appropriate pre-course tests, if you have not already done so. Refer to Assessment and Testing Services, and check the current Class Schedule for times and locations. No special preparation is necessary.
- 4 Contact an adviser for help in selecting your courses. For more information, go to www.cod.edu/advising.

- f you are undecided or are considering several possible fields of study, consult with a counselor. For more information, go to www.cod.edu/advising.
- 6 Register for your classes:
 - · Online at www.myaccess.cod.edu
 - In person
- 7 If you were enrolled in classes in the current term, you will be e-mailed to your myCOD e-mail account the date and time you are eligible to register. You may register that date and time or later.
- **8** If you were not enrolled in the current term, contact the Registration office, (630) 942-2377, and press "4" for registration eligibility.
- **9** Pay your tuition and fees within seven days of registration. See Tuition and Fees in the current *Class Schedule* or check online at www.myaccess.cod.edu.
- 10 Pick up your Class Schedule and account summary of tuition and fees at the Cashiers office, or check your schedule and account balance online at www.myaccess.cod.edu.
- 11 Monitor your progress toward a degree or certificate by periodically running your own degree audit online at www.myaccess.cod.edu.

Incoming Transfer Students

In addition to the steps for new students, incoming transfer students pursuing a degree or certificate at C.O.D. may also need to do the following:

- 1 Contact your former school(s) and order official transcripts sent to the Records office. If you have foreign transcripts, contact the Records office, (630) 942-3022, for more information.
- 2 Request a transcript evaluation from the Records office, (630) 942-3838, or download the form at www.cod.edu. Click on "Records" and then on "Transfer Evaluation." Transcripts will be evaluated starting the second week of the student's first semester. Once completed, a degree audit with courses accepted will be mailed to you.
- **3** Prior to credit transfer evaluation, consult with an adviser to select courses that are not similar to those already taken at another school.
- 4 Consult with an adviser to plan the rest of your program. For more information, go to www.cod.edu/advising.

Transferring Credit From College of DuPage

If you plan to transfer to a baccalaureate-granting school:

- 1 Obtain a catalog from the schools you are considering and become familiar with their general education and departmental degree requirements. Information that can help you transfer successfully is available in the Counseling and Advising Center, and Library. Check online at www.cod.edu. Click on "Counseling and Advising."
- 2 Consult with your C.O.D. adviser about courses to take while at C.O.D. based on the requirements of the transfer school.
- **3** Contact the transfer school about your preparation at College of DuPage.
- 4 When You're Ready to Transfer Go online (at www.cod.edu and click on "Records") to place an order for your transcript to be sent to the transfer school. Transcripts from other colleges cannot be forwarded from C.O.D.; you must contact schools previously attended to have their transcripts sent to the transfer school.

Graduation Procedures

- 1 Each program of study and college degree has specific graduation requirements. For more information, see the sections on graduation requirements, p. 61; degree requirements, pp. 61 to 75; and specific AAS degrees and certificates, pp. 77 to 123.
- Petition for a degree or certificate no sooner than one semester before your expected graduation date. Forms are available in the Records office and the Counseling and Advising Center, and online at www.cod.edu. Click on "Records" and then "Degree Completion/Graduation."
- 3 Receive a degree audit. This will list any deficiencies or requirements that need to be completed.
- **4** Plan your final semester with a counselor or adviser, register for classes, and satisfy financial and other specific requirements.
- **5** Attend graduation. You will be notified about specific graduation procedures.



Student Financial Aid

Student Financial Aid

Financial aid programs strive to reduce financial barriers to a college education.

Most of the major financial aid programs are based on demonstrated financial need. Financial need is the difference between the resources of the student and/or family and the cost of attending college.

Financial aid is available to any eligible student enrolled in an eligible degree or certificate program. Grants, loans, on-campus employment and local scholarships are aid options available to help students meet their educational expenses.

All federal/state financial aid programs are subject to government review and control, and are subject to change.

The Free Application for Federal Student Aid (FAFSA) is available from high schools, public libraries, the College of DuPage regional centers and/or the Office of Student Financial Aid as well as on the web at www.fafsa.ed.gov. Students planning to attend College of DuPage in the fall may apply for financial aid in January of the same year. Those who apply and qualify before April 10 will be given first consideration. Others will be awarded funds according to the date of their completed financial aid file, financial need and fund availability.

In general, a student may qualify for most federal and state financial aid if the following conditions are met:

- The student must be enrolled at least half-time as a regular student in an eligible program.
- The student must be a U.S. citizen or an eligible noncitizen.
- The student must demonstrate financial need.
- The student must maintain satisfactory academic progress in his/her course of study.
- The student must not be in default on a Perkins, Stafford or PLUS/SLS loan.
- The student cannot owe a refund on a Pell Grant, a Supplemental Educational Opportunity Grant, or an Academic Competitiveness Grant.
- The student must have signed a Statement of Selective Service Compliance.
 - For additional information, contact the Student Financial Aid office, (630) 942-2251.

Grants

Federal Pell Grants help undergraduate students who have not earned a bachelor's or professional degree from either a U.S. or foreign college to pay for their education. The Pell Grant is the largest federal student aid grant. For many students, these grants provide a "foundation" of financial aid, to which aid from other sources may be added. Pell Grants may be used to pay for tuition, books and indirect educational expenses. Pell Grants do not have to be paid back.

Academic Competitiveness Grant (ACG) is a federal need-based grant for full-time students who are eligible for Federal Pell Grants and are enrolled in an approved associate degree program. Students must have graduated from high school after Jan. 1, 2005, and completed a rigorous secondary school program of study; be U.S. citizens; and be enrolled in the first or second year of an academic program. An eligible student may receive \$750 for the first academic year of study and \$1,300 for the second year of study. The awards may be received only once. The ACG does not need to be repaid.

Illinois Student Assistance Commission Monetary Award Program is a need-based state funded program designed to assist undergraduate students. The Monetary Award Program pays only in-district tuition charges. Monetary award amounts vary depending on the student's demonstrated financial need.

Federal Supplemental Educational Opportunity Grant (FSEOG)

FSEOG is awarded to undergraduate students to help pay for educational expenses. Students can receive up to \$3,000 a year with priority given to students with exceptional financial need who receive the Pell Grant. FSEOG awards are also based on the availability of FSEOG funds. An FSEOG does not need to be repaid.

Student-to-Student Grant (STS)

Student-to-Student awards are offered to assist undergraduate students at state-supported colleges. Students must demonstrate exceptional financial need and must be concurrent Pell Grant recipients. Students who receive an FSEOG are not considered for the STS grant. STS grants are based on available funds and do not have to be repaid.

Silas Purnell Illinois Incentive for Access (IIA) Grant The IIA Grant provides assistance for freshmen who have a zero Expected Family Contribution (EFC) based on their Federal Financial Aid application. The maximum grant is \$500 paid in disbursements of \$250 per term for two terms.

*This information is based on regulations in effect at the time of this writing.

Federal Work Study

Federal Work-Study provides students with financial need the opportunity to earn money to assist them in meeting their education expenses. A variety of jobs are available to students both on and off campus.

Loans

The Stafford Loan Program, a cooperative effort of the state, private lending institutions and the federal government, offers low-interest, long-term educational loans to qualified students.

The Federal Stafford Loan Program includes both subsidized and unsubsidized loans.

Subsidized loans are made to students who demonstrate financial need, as determined by a federal needs test. In contrast, eligibility for unsubsidized loans is not based on financial need.

The primary difference between the two loan types is that the borrower is responsible for paying the interest on the unsubsidized loan from the date the funds are disbursed. Interest on subsidized loans is paid by the federal government while the borrower is in school at least half-time, throughout the grace period and during periods of deferment.

Loan Limits

The following charts indicate the Federal Stafford loan limits that apply to a combination of both subsidized and unsubsidized loans at the time of this writing.

Dependent Undergraduate Students

Academic Level	Unsubsidized Loan Limits*
Freshman	\$5,500
Sophomore	\$6,500

Independent Undergraduate Students

Academic Level	Combined Subsid. and Unsubsid. Loan Limits	Additional Unsubsidized Loan Limits	Total Limits
Freshman	\$3,500	\$6,000	\$9,500
Sophomore	e \$4,500	\$6,000	\$10,500

^{*} These loan maximums will be lower for some undergraduate programs less than a year's duration.

Parent Loans for Undergraduate Students (PLUS), a cooperative effort of the state, private lending institutions and the federal government, offers long-term educational loans to qualified persons. PLUS loans made for periods of enrollment beginning on or after July 1, 1987, have a variable interest rate. Under the PLUS Program a parent or legal guardian is eligible to borrow on behalf of dependent undergraduate students.

The maximum loan amount that a parent may borrow per academic level on behalf of each dependent student cannot exceed the cost of attendance minus any financial aid received.

A borrower is obligated to repay the full amount borrowed (including the insurance premium and any origination fees), plus interest. The repayment period begins on the day the loan is disbursed, and interest begins to accrue on that day. The first payment is due within 60 days of the disbursement date.

These loan programs are governed by federal regulations and are subject to change.

Veterans Financial Aid

The Illinois Veterans Grant (IVG) is administered by the Illinois Student Assistance Commission (ISAC). IVG will pay for tuition and certain fees for qualified veterans attending ISAC-approved Illinois state universities and community colleges.

A qualified applicant shall be any member of the Armed Forces of the United States, a reserve component of the Armed Forces, or the Illinois National Guard who:

- served at least one year of federal active duty service and whose separation from such service has been characterized as honorable provided he/she
- · was a resident of Illinois at the time of entering federal active duty service or within six months prior to entering the service; or
- · was a student at an Illinois public university or community college at the time of entering federal active duty service;
- · established or plans to establish Illinois residency within six months after leaving federal active duty service;
- is not in default on any student loan nor owes a refund of any state or federal grant; and
- is maintaining an acceptable grade point average as determined by the institution pursuant to a published

Recipients may use their grant assistance up to a maximum of 120 eligibility units.

Applications for the Illinois Veterans Grant are available in the Office of Student Financial Aid.

Montgomery G.I. Bill - Federal Education Benefit

Cherise Olmo, Veterans Education Certifying Official Supervisor Veterans Education Phone (630) 942-2444 Fax (630) 858-9390 olmoch@cod.edu

Records Office

Student Resource Center (SRC), Room 2015

Applications and Certifications are processed through the: St. Louis Regional Processing Office Veteran Affairs Regional Office P.O. Box 66830

St. Louis, MO 63166-6830 Phone: (888) 442-4551

All benefit inquiries regarding entitlement should be directed to Veteran Affairs at (888) 442-4551 or the VA web site: www.gibill.va.gov.

Any documentation submitted directly to the St. Louis office should be copied and submitted to the certifying official in the Records office as well.

Covered Programs

Chapter 30	Montgomery G.I. Bill for Active Duty
Chapter 31	Veterans Vocational Rehabilitation which is
	handled in the Office of Financial Aid
Chapter 32	Post-Vietnam Era Veterans Education
	Assistance (VEAP)
Chapter 33	Post 9/11 Montgomery GI Bill
Chapter 35	Survivors and Dependent Educational
	Assistance Program
Chapter 1606	Montgomery G.I. Bill (Selected Reserve)
Chapter 1607	Reserve Educational Assistance Program
	(REAP)

Required Documentation to be submitted with applications:

Duty Discharge 214 (DD 214) Leave of Earning Statement (LES) or kicker Notice of Basic Eligibility (NOBE)

MIA/POW Scholarships

Legal dependents of Illinois veterans who have been declared by the Department of Defense or Veterans Administration to be missing in action or prisoners of war (MIA/POW), or who died or were permanently disabled (with 100 percent disability) from service-connected causes are eligible for scholarships.

Children must begin using the scholarship before their 26th birthday; spouses must begin prior to 10 years from the effective date of a veteran's eligibility.

The scholarship will pay for in-district tuition and certain fees for four years of study at Illinois state-supported schools. Students have 12 years to complete a course of study from the initial term of study. Applicants should contact the Student Financial Aid office for an application form.

Illinois National Guard/Illinois Naval Militia Scholarships (ING/INM) are for active members of the guard or militia who have served at least one year. The scholarships pay indistrict or out-of-district tuition and matriculation fees at state-supported schools. Benefits under this program will be terminated if the recipient ceases to be a member of the

guard or militia. Eligible scholarship recipients are entitled to payment of tuition and fees for eight semesters or 12 guarters or the equivalent at Illinois state-controlled universities or public community colleges, for either full-time or part-time undergraduate or graduate study. Applications are available in the Office of Student Financial Aid.

Vocational Rehabilitation (Chapter 31)

Veterans with service-connected disabilities of at least 20 percent and more as rated by the Veterans Administration may be eligible for in-district or out-of-district tuition and matriculation fees, books and supplies, and a monthly allotment depending on marital status, dependents and number of hours enrolled. A DD214 or separation paper is required. Apply to Veterans Administration, P.O. Box 8136, Chicago, IL 60680. For information, call (312) 353-4015.

Scholarships

Scholarships may be difficult to find but are worthwhile. It is often necessary to search all possible sources to obtain financial aid to help pay for educational expenses.

Local scholarships are available from a number of private sources, including community agencies, foundations, banks, churches, civic and cultural groups, and area businesses. Local scholarship requirements vary depending on the donor. Eligibility requirements may include financial need, but may also consider academic achievement, honors, religious affiliation, community activities, artistic talent, athletic ability, career plans and special interests.

Detailed information about the scholarship requirements, awards and application process is available in the Office of Student Financial Aid and in the Financial Aid section of www.cod.edu.

Scholarship information can be reviewed in the Scholarship Source Book available in the Advising Assistance Center, Admissions and Information office, the college Library, the Center for Independent Learning, the Office of Student Financial Aid, other college offices and locations or the financial aid section of the college web site at www.cod.edu.

Institutional Employment Program

A variety of on- and off-campus jobs are available to students at College of DuPage.

If you are enrolled for a minimum of six credit hours and have a cumulative GPA of 2.0, or if you are a new student currently enrolled in 6 credit hours, you may apply for a job through the Human Resources office. Due to the immigration and naturalization reform act of 1986. you will be required to prove identity and eligibility for employment. If you are interested in an on-campus job, please contact the Human Resources office, Student Resource Center (SRC).









Student Services

Information

Information Office

Answers to questions about the college, its programs, courses, services, activities, current events, registration, faculty and facilities are provided at the Information office. Brochures about academic programs and student services, catalogs and the *Class Schedule* also are available in the Admissions and Information office.

Speakers Bureau

The College of DuPage Speakers Bureau, comprised of current and retired C.O.D. faculty and staff, is a popular service available to clubs, organizations, schools and the media

For more information, call the Speakers Bureau in the Community Development office at (630) 942-2588.

International Student Services

Prospective students interested in applying for an F-1 or M-1 student visa for international admission to College of DuPage should first contact the International Admission Specialist at (630) 942-2979 or visit the International Student Services office in the Berg Instructional Center (BIC), Room 2084.

The International Student office serves students in F-1 and M-1 non-immigrant status who have already received an I-20 document for international admission to College of DuPage. The International Student office provides F-1 and M-1 immigration advising, basic academic advising, crosscultural and personal advising, and logistical assistance to international students as they pursue their studies at College of DuPage. Service is provided on an appointment basis, with limited scheduled hours for walk-in advising. Please call (630) 942-3328 to schedule an appointment or to request the Open Advising schedule.

Health and Special Services

The Health Center offers first aid, treatment of minor illness. health education and guidance. Registered nurses staff the center, which is open days and evenings. A consulting physician is available one morning a week. Physical examinations, necessary blood tests and some immunizations are available for a nominal fee for inter-collegiate athletes and health career students enrolled at C.O.D. All students are encouraged to carry accident and health insurance, which is available to students and their families for a nominal fee. Enrollment forms are available in the Health Center and online at: www.universitvhealthplans.com. The Health Center sponsors college blood drives each year, health awareness symposiums and specific health screenings. Crutches, canes and wheelchairs are available for short-term loans. For information on Health and Special Services, call (630) 942-2154. The TDD number for hearing impaired is (630) 858-9692.

Extended Absence for Accident or Medical Reasons

Illness or medical concerns should be reported to the instructors by the student. For illness lasting longer than three days, contact the Health Center and additional written notice will be sent to the instructor(s).

Communicable Diseases

Students are required to report to the Coordinator of Health and Special Services if they are diagnosed as

having a reportable communicable disease. Communicable diseases are those diseases defined by the Illinois Department of Public Health to be contagious, infectious, communicable and dangerous to the public health. A student may be permitted to remain in class whenever, through reasonable accommodation, there is no reasonable risk of transmission of the disease to others. A physician letter permitting the student to return to class may be required.

Students With Disabilities

Students with disabilities are mainstreamed at College of DuPage. All students requesting services need to self identify with the Office of Special Student Services and provide appropriate documentation of their disability. Documentation may include a diagnosis of disability, academic history, intellectual assessment and recommendations for accommodations. Support services are available for any student with a documented learning and/or physical/medical disability. Student Services provides notetaking paper, tape recorders, alternative testing, adaptive equipment, sign language interpreters, audio textbooks and other auxiliary services. Tutoring is available for all students through the Academic Support Center.

Parking Permits

Parking permits for students with disabilities are available through the Health and Special Services office. Parking permits are issued each term and medical verification is necessary for extended periods.

Career Services Center

The Career Services Center is a center for job and career-related information and options. Through a variety of resources and services, this center provides students, alumni and community residents a connection with area employers and opportunities for paid and non-paid work experience. These include cooperative education, internships, full- and part-time employment and community service-learning opportunities. The Career Services Center is located in the Student Resource Center (SRC).

Cooperative Education and Internship Program

The Cooperative Education and Internship program prepares students to pursue and succeed at Internships and co-ops. Students obtaining work-integrated learning positions, who meet college prerequisites, may enroll for academic credit. Students in academic co-ops and internships are mentored by a C.O.D. faculty adviser and worksite supervisor, which creates an ideal learning partnership leading to career and workforce development. Benefits of the Cooperative Education and Internship Program include:

- An opportunity to develop job search and success skills.
- Relevant on-the-job experience that puts classroom knowledge into practice.
- The possibility of earning academic credit and a paycheck while increasing career competencies and building a professional network.

For more information about Cooperative Education and Internships, call (630) 942-2611.

Career Services

Career Services helps students find full- and part-time employment while in college or after they graduate. The office has a variety of resources, including:

- Employer resource information
- · On-campus interviewing with corporate recruiters
- Career specialists and the Job Search Guide to assist students in their job search
- Career transition assessment/database
- Internet job-matching system posts full- and part-time employment opportunities
- · Successful job search class

For more information about Career Services, call (630) 942-2230.

Service Learning

Service Learning is a teaching and learning methodology that integrates community service with academic instruction, connecting theory to practice. It focuses on critical and reflective thinking, develops civic and social responsibility, and connects students with their communities.

Service Learning promotes and supports the involvement of students, faculty and the community in service learning projects. Service Learning staff assists faculty in developing course material, facilitates agency selection, coordinates student placement, provides technical support, offers appropriate training, and serves as the bridge to the community.

Everyone benefits:

- · Students become enthusiastic learners.
- Through Service Learning, Faculty and Students connect theory to practice in the real world.
- Establishes partnerships between the college and the community.
- Service Learning fosters personal growth, career development, academic achievement and encourages respect for diversity.

For more information about Service Learning, call (630) 942-2655.

Library

The Library offers its collections and services to students, faculty, staff and community borrowers. The Library's web site, www.cod.edu/library, provides access to the Library's catalog as well as detailed information about the Library's services and links to resources for research.

Regular hours

Monday to Thursday	7:45 a.m. to 10 p.m.
Friday	7:45 a.m. to 4:30 p.m.
Saturday	9 a.m. to 4:30 p.m.
Sunday	noon to 6 p.m.

Special hours for intercessions, vacations and holidays will be posted.

Library Facilities

The 100,000-square-foot Library houses more than 100 public computer workstations, six classrooms, two group viewing rooms, 500 study carrels, and 10 group study rooms.

Circulation Desk Services

The Circulation Desk checks out materials, including videos and other media, to students, faculty, staff and community members. The Circulation Desk also circulates materials and audiovisual equipment to the classroom, faculty, staff and students, and books the Library's group study rooms.

The Materials Collection

- Books: 230,000+, including 15,000 in the Reference Collection. Other special collections include the College and Career Information Center, the Natural Sciences Center, and the Juvenile Collection.
- Periodicals: 700 current subscriptions. Most backfiles older than a year are on microfilm. Other major microform sets include ERIC, HRAF and LAC.
- Non-Print: 27,000+ videos (several thousand in a feature film rental collection); 15,000 musical recordings on phonodiscs and CDs; and various other formats, including DVDs, audiobooks, CD-ROMs, photographic slide sets, and biological models and specimens.
- Electronic Resources: More than 90 electronic databases containing factual information and access to full-text articles from many thousands of journals, magazines and newspapers. Many of these databases are accessible from off campus via the Library's web site at www.cod.edu/library.

College and Career Information Center

The College and Career Information Center (CCIC), located in the Library, is a multimedia collection of materials on educational opportunities, college information, career guidance, occupational information, job hunting techniques and standardized test studyguides. Included are college catalogs from more than 600 schools, an additional 2,000 college catalogs available electronically, transfer information and tips on obtaining financial aid. Also available are electronic databases with information on career and educational planning.

Reference Service

Reference staff is available at all times the Library is open to provide individual reference assistance to users, including research consultation and assistance with electronic sources of information. In addition, reference librarians give tours, provide library instruction to classes, and assist with interlibrary loan requests. For more detailed information about the Library and its services, inquire at the Reference Center or call (630) 942-3364.

Academic Support Center

The Academic Support Center, located in the Berg Instructional Center (IC), Room 2040, provides academic assistance and consists of the following four areas:

Math Assistance Area

The Math Assistance area offers mathematics help to students enrolled in C.O.D. mathematics classes from basic math to Calculus 2232. These mathematics classes may be taken on campus in Glen Ellyn or at an off-campus location, in a traditional classroom setting or in a flexible setting. The area is open Monday to Saturday. Most students are served on a walk-in basis, but students may schedule appointments during busy times.

The Math Assistance area is staffed by College of DuPage faculty and has print, video and computer support material for all C.O.D. math courses. Instructors are available to answer questions dealing with homework problems or to clarify concepts that students have found to be confusing in textbooks. The faculty also provide mathematics advising and mathematics course recommendations.

For more information, or to schedule an appointment, call (630) 942-3339.

Peer Tutoring Area

Peer tutors provide course-based tutoring to eligible students at no charge. Tutoring is available face to face on the Glen Ellyn campus, other select C.O.D. locations and online at bb.cod.edu for a variety of C.O.D. courses. Sessions are conducted in an environment conducive to learning. Due to the availability of tutors and tutoring locations, dates and times, some restrictions may apply.

Tutors are enrolled for at least six credit hours during the term they tutor, have a cumulative GPA of 2.0 or above, hold demonstrated master proficiency in the subject area they are tutoring, and have successfully completed the tutor application process and pre-service training.

To request tutoring or to become a peer tutor, stop by the Peer Tutoring area of the Academic Support Center, call (630) 942-3686 or e-mail tutoring@cod.edu.

Speech Communication Area

The Speech Communication area serves the speech communication needs of College of DuPage students, staff and administration by offering assistance in such areas as oral presentations, group presentations, speech organization and development, use of visual aids, use of electronic presentations and presentation materials, interviewing or conferencing, multicultural or international communication, and electronic as well as speech apprehension difficulties.

Writing and Reading Center

The Writing and Reading Center is open to all College of DuPage students, faculty, staff and community members, free of charge in a one-on-one environment. We foster a Writing Across the Curriculum approach for working with writers, ranging from idea generation to final draft. We provide all student readers with academic resources that aide them in becoming more successful students by offering strategies that strengthen their reading and study skills. The Writing and Reading Center assists individuals who:

- Struggle with writing and reading challenges in 1000level or above courses;
- · Enroll in developmental writing and reading courses;
- Need assistance increasing their writing and/or readingrelated knowledge base.

The Writing and Reading coaches are part-time faculty and student peers from the Liberal Arts division. They work with writers on a variety of activities and projects. These activities might include narrowing a topic, focusing on a thesis, deciding on clear writing strategies and revising. Projects might range from writing a research project to writing a lab report. The coaches also work with readers on a variety of reading strategies for decoding and understanding assignments and textbooks. Coaches also

offer a variety of study skills such as organizing materials, note-taking and time management activities. Some students will be referred to the Writing and Reading Center while others will seek assistance on their own. Coaching sessions are scheduled in advance or are impromptu. Sessions are 30 to 45 minutes in length.

The College of DuPage Writing and Reading Center is located within the Academic Support Center in the Berg Instructional Center (IC), Room 3040, or at the Addison, Naperville and Westmont Regional Centers, from fall through summer terms. Appointments can be made in IC 3040, online at www.cod.edu/write or by calling (630) 942-3355. For more information, log on to www.cod.edu/write.

90.9fm WDCB Public Radio

WDCB is the public radio station operated by the college to serve the college and the community. WDCB is Chicagoland's only daytime jazz station, broadcasting in stereo at 90.9fm — and on the web at WDCB.org — 24 hours a day, seven days a week. Programming includes a wide variety of music (jazz, acoustic, blues, etc.), news and feature stories specifically relating to college district residents, entertaining and useful information, and much more. A quarterly program schedule is published and may be obtained by writing WDCB in care of the college, or calling (630) 942-4200.

Bookstore

The campus bookstore sells books, school supplies, greeting cards, gifts and clothing. It also offers fax service, free gift wrapping and College of DuPage emblematic items. The bookstore is open Monday to Saturday, with extended hours during the first week of classes each semester. For hours of operation, contact the bookstore at (630) 942-2360.

Off-Campus Textbook Sales

The bookstore operates satellite locations at select offcampus centers to sell books during the first week of each semester. For more information, contact the campus bookstore at (630) 942-2360.



Textbooks can be ordered online at www.codbooks.com for shipping or convenient in-store pick-up at the campus bookstore. Online orders can be placed by using the course information on your student schedule.

Refunds and Exchanges

Refunds and exchanges are handled at the Buyback/Refund counter during regular bookstore hours. While the quality of all merchandise is guaranteed, some items, unfortunately, are neither returnable nor refundable (e.g., opened software, hardware, calculators or general merchandise, sale items, bar charts and final text sales). To be considered for a refund or exchange, an original cash register receipt must accompany the merchandise being returned.

Fall and Spring Semester Refunds

The bookstore will gladly issue full price refunds the first two weeks of the semester for both 16-week and 12-week courses. During 8-week courses, the bookstore will offer full price refunds the first week of each session.

Summer Semester Refunds

The bookstore will gladly issue full price refunds during the first 7 days of any 8-week and 5-week summer sessions.

Refunds are available if, in all cases:

- 1. Books have been purchased for the current term.
- 2. The original cash register receipt is presented.
- New books have not been marked or damaged. If marked or damaged, the book will be refunded at used price whenever possible.
- Non-text items must still be in original packaging, or can be exchanged if defective for identical item (software excluded).

Refunds are given as follows:

- 1. Cash for cash purchases or purchases made with personal check (10-day wait period for checks).
- 2. Charge credit for charge purchases.
- 3. Gift card for gift card purchases.

Important Facts About Selling Your Books

A valid picture ID is required to be presented at the time of buyback transaction. The amount you are offered for your book is determined by one of the following conditions:

- "Retail" is the offer made by the bookstore, a setpercentage of the current selling price, usually about 50 percent. You may be offered retail if:
 - A. The professor has turned in an order for this book to be used in the upcoming semester.
 - B. The number of books required for the upcoming semester has not been reached by the bookstore.
 - C. All components that accompany the book are presented with the book.
- 2. "Market Value" is the offer made for books that do not meet the criteria above, and is based on a national supply and demand. You may be offered market value if:
 - A. The professor has not submitted an order and/or the book is not being used again on campus.
 - B. The number of books required for the campus needs has been reached by the bookstore.

- 3. Your book may be considered to have no market value if:
 - A. It is in poor condition not considered resalable (e.g., water damaged or falling apart).
 - B. It has tear-out or fill-in-the-blank pages that have been torn out or filled in.
 - C. The publisher has announced a newer edition.
 - D. National supply exceeds demand.

Dining Services

The campus Dining Services department operated by Chartwells offers a variety of meal options at three convenient service locations. The E.E. Gibson Café is located on the first floor of the Student Resource Center with hours of operation during the regular academic year from 6:30 a.m. to 7 p.m., Monday through Thursday, and 6:30 a.m. to 2 p.m. on Friday. An additional satellite facility is located in the McAninch Arts Center with convenient hours.

E. E. Gibson Café (SRC)

Features a food court style service with a full complement of hot and cold food selections and beverages, including such traditional items as burgers, french fries, pizza, pasta, soup, hot entrees, sub sandwiches and breakfast specials. In addition, such non-traditional items offered include a daily salad bar, made-to-order wraps, stir fry and other specialty entrees, health-conscious entrees, vegetarian meals, "ready-to-go" sandwiches, salads and sushi. Snack choices include fresh-baked gourmet cookies, muffins, yogurt parfaits, chips, and a variety of pies and cakes.

McAninch Arts Center (MAC) Café

Serves a signature breakfast menu, including fresh bagels and bakery products, toppings, and breakfast sandwiches and a variety of "grab-n-go" items for lunch and dinner, including hot and cold sandwiches, soup, salads, fruit and more. Beverage and snack choices are also available, including a full service Barista station offering coffee, espresso, latte and frozen drinks. This location is open daily for breakfast, lunch and dinner.

For further information on foodservice or catering functions, contact Dining Services at (630) 942-2246 or (630) 942-2666.

Vending

In addition to the cafeterias, vending machines are located campus-wide, accessible 24 hours a day. Refund information is posted in all vending areas. Please report any vending machine malfunctions to a cashier at any dining location or at (630) 942-6666.

Smoking Policy

College of DuPage is a non-smoking campus. Use of tobacco products is prohibited in all indoor college facilities (owned or leased), within designated non-smoking entrances, and in all college-owned vehicles.

Possession of any tobacco products is prohibited by any person under the age of eighteen (18) years.

Printed Materials Guidelines

Individuals and organizations have the right to distribute printed material on the College of DuPage campus. Such material must not be contrary to local, state or federal laws and no items may be sold or money solicited. However,

the board does reserve the right to control the place, time and manner such printed material is distributed. The administrative procedures concerning the distribution of printed materials are available in the Student Activities office, Student Resource Center, and on the college web site under Board Policies.

College of DuPage Police Department

The College of DuPage Police Department is a professional 24-hour law enforcement agency. The department's police officers have full police powers and are responsible for maintaining a secure environment in which educational activities are conducted and assets are protected.

Contact the College of DuPage Police Department to report a crime, for emergency first aid, to report lost items, or to report a motor vehicle or personal-injury accident on campus.

The College of DuPage Police Department also provides assistance with disabled vehicles and lockouts and, if needed, provides escort service to your vehicle or class.

The office can be reached at (630) 942-2000, ext. 2000, 24 hours a day, seven days a week.

Campus Parking

The parking lots on campus are available to faculty, staff, students and visitors. The college reserves the right to tow illegally parked vehicles at the owner's expense. Some designated parking areas require a parking permit.

There is a 20 m.p.h. speed limit on all the entrance drives and roads around the campus and a 10 m.p.h. speed limit in all parking lots.

Penalties for parking violations range from \$15 to \$100. Fines may be paid by mail or in person to the Cashiers office. To appeal a traffic citation, one must file a form with the Cashiers office within five days of issuance.

Severe Weather Closing

In the event that it becomes necessary to close the campus or to cancel classes and other activities due to inclement weather, notices will be made several times an hour on 90.9fm WDCB, the college's public radio station. Other stations are notified by the college and may announce cancellations: WBBM-AM (780) and WGN-AM (720). The following television stations air closing or cancellation notices: Channel 2 (CBS); Channel 5 (NBC); Channel 7 (ABC); Channel 9 (WGN) morning news; Channel 32 (FOX); and CLTV News. Students can also check closing status at

www.emergencyclosings.com/ecc/home.jsp. All announcements will contain specific information concerning off-campus classes.

Public Transportation

Pace provides bus transportation to and from the campus in Glen Ellyn. Bus shelters are located in front of the Berg Instructional Center (IC) and next to Building K. Two Pace routes serve the campus directly, No.714 and No.715. These routes connect with many others, as well as with the Metra and Northwestern train lines. Please check the Pace web site, www.pacebus.com or call (847) 364-PACE, for up-to-date schedules, fares and route maps. All routes are subject to change.

Pace schedules are available on campus in the

Admissions/Information office and the Student Activities office. A variety of Pace discount passes are for sale in the Student Activities office and Student Resource Center. Regular student discounts are available on Pace buses with a student ID card. Student ID cards are available in the Physical Education and Community Recreation Center (PE).

Child Care Services for Students — Glen Ellyn Campus

Child care services are offered for children 3, 4 and 5 years of age while the parent attends credit classes.

Children are enrolled before each term begins. There is a non-refundable fee per child plus a nominal semester fee based on the number of hours the child is enrolled. Registration is on a first-come basis. The center is located in the new Early Childhood Education Center. Call (630) 942-2422 for registration information.

Child Care Services for Students — Off-Campus Centers

For parents in classes at the Carol Stream Community Education Center, the West Chicago Community Education Center, the Addison Center or the Bloomingdale Center child care is available for children ages 3 to 12 at the Carol Stream Community Education Center. For more information, call (630) 942-4888.

Early Childhood Education and Care Demonstration Center

The Demonstration Center for the Early Childhood Education and Care program at College of DuPage provides educational experiences for students who are pursuing careers in the early childhood field. Students observe and interact with young children in the campus demonstration center. The Demonstration Center classes are staffed by teachers who collaborate with the Early Childhood Education and Care faculty to provide curriculum supportive of the developmental needs of children. The center offers full-time toddler, preschool and kindergarten classes and part-time preschool classes. scheduled either all day (7 a.m. to 6 p.m.) or part day (8:45 to 11:15 a.m., Monday to Friday, or 1:15 to 3:45 p.m., Tuesday to Friday) and provide children time to play and learn in a class prepared to enhance their development. Learning experiences and discipline techniques are appropriate for the age and development of each child.

All classes provide play-based curriculum planned to foster the physical, social, emotional and intellectual development of each child.

For more information about enrollment of a child in the Demonstration Center of the Early Childhood Education and Care program, call (630) 942-4223.

Student Rights and Responsibilities Student Code of Conduct — from Board Policy 5715

Conduct which interferes with college purposes is not acceptable, yet a member of the college community can rightfully expect that the college will exercise with restraint its power to regulate student behavior and that rules and regulations will be adopted only when the educational process clearly and directly requires such action.

Students are accountable for their own conduct. Sanctions for violations of college rules and regulations for conduct which interferes with college affairs will be addressed by the college.

Student conduct which involves an alleged violation of criminal law will be referred to appropriate civil authorities.

Conduct — Rules and Regulations

Students at College of DuPage are expected to demonstrate qualities of morality, integrity, honesty, civility, honor and respect. Behavior which violates these standards for which discipline may be imposed includes, but is not limited to, the following:

- Cheating, plagiarism, forgery, misrepresentation and all forms of academic dishonesty (See Board Policy 5050, Course-Related Academic Integrity).
- 2. Purposely furnishing false information to any college official, faculty member or office.
- 3. Forgery, alteration or misuse of any college document, record, form or instrument of identification.
- 4. Failure to meet college financial obligations.
- Verbal abuse, physical abuse, assault, threats, intimidation, harassment, sexual harassment, coercion or other conduct which threatens or endangers the health and safety of any person on college premises.
- Intentional damage, destruction, attempt to damage or destroy or theft or attempted theft of college property or the property of college personnel, other students or any other person or the property of independent contractors maintained or stored on college premises.
- 7. Theft, attempted theft or mutilation of library materials.
- 8. Disruption or obstruction of any operation of the college, including, but not limited to, teaching, learning, disciplinary proceedings, college activities, public service functions on or off-campus or other authorized non-college activities when the act occurs on college premises.
- Illegal or unauthorized use of computing resources as defined in Board Policy and Administrative Procedure 6114, Electronic Communication, including, but not limited to:
 - Unauthorized entry into a file to use, read or change the contents or for any other purpose.
 - b. Unauthorized transfer of a file.
 - c. Unauthorized use of a computer account, identification number or password.
 - d. Use of computing facilities to interfere with any other person's work.
 - Use of computing facilities to interfere with the operation of the college computing system or any other computing system.
 - f. Unauthorized use or copying of copyrighted software.
 - g. Use of computing facilities to send obscene or abusive messages or images.
 - h. The installation or use of a program whose effect is to damage computer systems, media or files.
 - Unauthorized use of computer time for personal or business purposes.
- 10. Unauthorized use of college telephones, facsimile (fax) machines or other college equipment.
- Unauthorized possession, duplication or use of keys to any college premises or unauthorized entry or attempted unauthorized entry to, occupancy of or use of college premises.
- 12. Conduct, behavior or involvement in an activity which

- causes or may reasonably lead college authorities to anticipate substantial injury or disruption or material interference with college activities or the rights of others.
- Possession, use, distribution or attempt to use or distribute an illegal or controlled substance or lookalike.
- Possession, use, distribution or attempt to use or distribute alcoholic beverages.
- Use of tobacco products is prohibited in all indoor college facilities, owned or leased, and in all collegeowned vehicles. Refer to Board Policy 6512, Non-Smoking/Smoking Regulations.
- 16. Use or possession of a firearm, weapon or explosive, including, but not limited to, a pistol, revolver, switchblade knife, bomb or any object containing noxious or dangerous chemicals, unless such use or possession is authorized.
- 17. Gambling of any kind.
- Violation of published college policies or procedures as stated in College of DuPage Board Policy, College of DuPage administrative procedures, departmental policies and procedures and Public Safety procedures.
- Violation of federal, state or local law on college premises or at college-sponsored or supervised activities.
- 20. Abuse of the judicial system, including, but not limited to:
 - Failure to obey the summons of a judicial body or college official
 - Falsification, distortion or misrepresentation of information before a judicial body.
 - c. Disruption or interference with the orderly conduct of a judicial proceeding.
 - Institution of a judicial proceeding knowingly without cause.
 - e. Attempting to discourage an individual's proper participation in or use of the judicial system.
 - f. Attempting to influence the impartiality of a member of a judicial body prior to and/or during the course of the judicial proceeding.
 - g. Influencing or attempting to influence another person to commit an abuse of the judicial system.

Violation of Federal, State or Local Laws and College Discipline

- 1. College disciplinary proceedings may be initiated against a student charged with a violation of a federal, state or local law which is also a violation of this code, that is, if both violations result from the same factual situation, without regard to pending civil litigation in court or criminal arrest and prosecution. Proceedings under this code may be carried out prior to, simultaneously with or following civil or criminal proceedings off-campus.
- 2. When a student is charged by federal, state or local authorities with a violation of law, the college will not request or agree to special consideration for that individual because of the individual's status as a student. If the alleged offense is also the subject of a proceeding before a judicial body under the Student Code of Conduct, however, the college may advise off-campus authorities of the existence of the Student Code of Conduct and how such matters will be

handled internally within the college community. The college will cooperate fully with law enforcement and other agencies in the enforcement of criminal law on campus. Individual students and faculty members, acting in their personal capacities, remain free to interact with governmental representatives as they consider appropriate.

For more information contact the Vice President of Enrollment and Student Affairs or the C.O.D. web site at www.cod.edu/resources/studentaffairs/sa.htm affairs.

Course-Related Academic Integrity — Board Policy 5050 Academic dishonesty is prohibited. An act of academic dishonesty will be met with appropriate disciplinary action.

- Course-Related Academic Dishonesty
 This procedure addresses course-related academic dishonesty. Other types of academic dishonesty are addressed in Board Policy 5715, Student Rights and Responsibilities.
 - A. The definition of course-related academic dishonesty includes, but is not limited to,
 - 1. Dishonest use of course materials such as student papers, examinations and reports.
 - 2. Knowingly assisting others in the dishonest use of course papers, examinations and reports.
 - Knowingly providing course materials such as papers, lab data, reports and/or electronic files to be used by another student as that student's own work.
 - Plagiarizing Plagiarism occurs when a student uses language or ideas from materials without acknowledgment and/or when the work is copied from other sources and is submitted as the student's own. Examples of plagiarism include, but are not limited to,
 - Copying a phrase, a sentence or a longer passage from a source and submitting it as one's own.
 - b. Summarizing or paraphrasing someone else's ideas without acknowledging the source.
 - c. Submitting group assignments individually asone's own independent work.
 - B. Faculty will make a good faith effort to inform the student of the academic dishonesty action. Faculty may report the student for disciplinary sanction to the Vice President of Enrollment and Student Affairs under Board Policy #5715, Students Rights and Responsibilities.
 - C. Disciplinary action will be pursued in all instances in which it is determined that academic dishonesty has occurred. Disciplinary action may include, but is not limited to.
 - 1. Assignment of a failing grade for a test, examination or assignment.
 - 2. Assignment of a failing grade for a course.
 - Report to the Vice President of Enrollment and Student Affairs without request for formal disciplinary action under Board Policy #5715.
 - 4. For more information contact the Vice President of Enrollment and Student Affairs or check www.cod.edu/resources/studentaffairs/sa.htm.

Computer Lab Security Policy

Several computing labs are available on campus for students' use in courses and for individual use. The college has a computer security policy on all computer access/use which follows: Any access/use of the College of DuPage computer systems is restricted to duly authorized individuals only. Any unauthorized access/use by any individuals, including administrators, faculty, classified staff, students and the public, of the computer systems, computer network, computer programs, computer software, computer supplies, documentation and/or data will be subject to disciplinary action, civil action and/or criminal prosecution. See Board Procedure 6114 "Electronic Communications" for more details.

See Student Rights and Responsibilities, beginning on page 51 for the disciplinary procedure, sanctions and students' right to appeal.

Non-Harassment Policy

The Board of Trustees of College of DuPage has established Policy 4074 prohibiting harassment and sexual harassment. Any employee, student or visitor whose behavior contributes to a hostile, offensive or intimidating environment on the basis of an individual's race, color, religion, sex, national origin, age, disability or sexual orientation will be subject to disciplinary action. Student complaints of harassment should be filed with the:

- Affirmative Action officer, Director of Human Resources, if against an employee;
- Public Safety officer, if against a visitor;
- Vice President of Enrollment and Student Affairs, if against a student.

Student Privacy

Notification of Students' Rights Under The Family Educational Rights and Privacy Act (FERPA) The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. They are:

- The right to inspect and review the student's
 education records within 45 days of the day College of
 DuPage Records office receives a request for access.
 Students should submit to the Records office written
 requests that identify the record(s) they wish to
 inspect. The college will make arrangements for
 access and notify the student of the time and place
 where the records may be inspected. If the records
 are not maintained by the college official to whom the
 request was submitted, that official shall advise the
 student of the correct official to whom the request
 should be addressed.
- 2. The right to request the amendment of the student's education records that the student believes are inaccurate or misleading. Students may ask College of DuPage to amend a record that they believe is inaccurate or misleading. They should write the college official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading. If College of DuPage decides not to amend the record as requested by the student, the college will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for

- amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
- 3. The right to consent to disclosures of personally identifiable information (not "Directory Information") contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception that permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the college in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff): a person or company with whom the college has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility.
- 4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by College of DuPage to comply with the requirements of FERPA. The name and address of the office that administers FERPA is:

Family Policy Compliance Office U.S. Department of Education 400 Maryland Avenue, SW Washington, D.C. 20202-4605

Social Security Number

Providing your Social Security number to the college is voluntary. If you choose not to disclose your Social Security number, the Registration office will issue you an alternate number to be used for college business. The Social Security number is used for administrative purposes only. (Family Educational Rights and Privacy Act of 1974) Note: The Social Security number is required for all students applying for financial aid.

Disclosure of Directory Information

The items listed below are designated as "Directory Information" by College of DuPage Board Policy and Procedure 5717 and may be released for any purpose at the discretion of the college. Under provision of the Family Educational Rights and Privacy Act of 1974, as Amended, you have the right to withhold the disclosure of any or all of the categories of "Directory Information" listed below.

Please consider very carefully the consequences of any decision by you to withhold "Directory Information." Should you decide to inform the college not to release any or all of this "Directory Information," any future requests for such information from non-college persons or organizations will be refused.

The college will honor your request to withhold the information listed below but cannot assume responsibility to contact you for subsequent permission to release the information. Regardless of the effect upon you, the college assumes no liability for honoring your instructions that such information be withheld.

Directory Information consists of the following: Name, address, telephone number, date and place of birth, classes and dates of attendance, previous education institution(s) attended, major field of study, awards,

honors, and degrees earned, past and present participation in officially recognized sports and activities, height and weight.

If you wish to withhold the directory information, complete the "Student Request to Prevent Disclosure of Directory Information" form and submit it by the fourth week of the term to the Office of the Dean of Admission Services and Registrar. Forms are available both there and in the Records office.

If the form is not received in the Office of the Dean of Admission Services and Registrar by the fourth week of the term, it is assumed that the above information may be disclosed.

Grievance Policy

Grievances may be categorized for appeal for the following reasons:

- Discrimination because of race, color, sex, religion, national origin, ancestry, age, marital status, disability, unfavorable military discharge or sexual orientation in programs, courses, activities, facilities, financial aid or student employment.
- 2. Arbitrary and capricious grading
- 3. Disciplinary sanctions
- 4. Academic regulations
- 5. Privacy of educational record

Efforts will be made to resolve the grievance at the point of origin. The following procedures should be followed in sequence:

- Consult with the teacher, adviser, coordinator or person responsible for the area concerned.
- Appeal to the director, associate dean, dean or associate vice president, or vice president for the area concerned.
- Appeal to the appropriate board: Academic Regulations Committee, Accessibility and Special Needs Committee, Judicial Review Board, Traffic Appeals Committee, or Financial Aid Committee.

Student Appeal Procedures

Students have seven appeal processes to which they may turn if they believe they have been mistreated by rules or action of an individual employee of the college.

Academic Regulations Committee

The committee considers student petitions regarding matters such as students' unresolved concerns about their academic records. The Academic Regulations Committee considers each case on its individual merits. Its decisions are final. An appeal to the Academic Regulations Committee is submitted through the Records office and must be for classes in which an "F" grade was received and was taken less than five years before the petition is submitted.

Financial Aid Committee

The Financial Aid Committee, comprised of staff and faculty representatives, is responsible for the awarding of scholarships and for Financial Aid Standards of Academic Progress appeal reviews. Scholarship applications and Standards of Progress appeals must be submitted to the Office of Student Financial Aid by the posted deadlines. All decisions of the committee are final.

Judicial Review Board

The Judicial Review Board is composed of faculty, staff and student representatives approved by the president. This body hears appeals from students who think they did not have a fair hearing by the college judicial officer on a disciplinary hearing for violations of the Student Code of Conduct and the Course-Related Academic Integrity policy. An appeal to the Judicial Review Board is submitted through the Vice President for Student Affairs.

Traffic Appeals Committee

This committee, composed of staff and students, considers appeals of students who feel they have been wrongly ticketed for traffic violations on campus. An initial appeal form must be obtained through the Cashiers office. Appellants must appeal in writing through the Vice President for Enrollment and Student Affairs office. Failure to submit a written appeal results in forfeiture of a student's right to a future hearing. The decision of the Traffic Appeals Committee is final.

Accessibility and Special Needs Committee

Comprised of student, staff and faculty representatives, this committee reviews and makes recommendations regarding program and physical accessibility for qualified handicapped individuals. It also serves as an appeal board for inquiries regarding accessibility. Information on the process is available from the Vice President of Enrollment and Student Affairs.

Grade Review Procedure

Before requesting a formal review, a student is urged to make every effort to resolve the grievance informally with the teacher who issued the final grade. The student may terminate the formal procedure at any point, but when the procedure reaches full closure, the student must abide by the final disposition of the appeal and will be precluded from seeking review of the matter under any other college procedure. The Grade Review Procedure is fully outlined in Administrative Procedure 5107.

A student may initiate a formal grade review if it is felt an arbitrary or capricious grade has been given, which means:

- The assignment of a course grade to a student on some basis other than performance in the course; or
- The assignment of a course grade to a student by resorting to unreasonable standards different from those which were applied to other students in that class; or
- 3. The assignment of a course grade by a substantial, unreasonable and unannounced departure from the teacher's previously articulated standards. (Factual and computational errors are included in this definition.)

Step I. Student contacts the teacher within 45 calendar days of the last day of the academic term for which the grade was assigned. If the teacher is not available, the student must register the request for the review with the teacher's dean/supervisor. If the problem is not resolved between the student and the teacher, the student must initiate Step II within 10 days following the meeting with the teacher or dean/supervisor.

Step II. Student requests that the dean/supervisor initiate a formal grade review by the division's standing Grade Review Committee. The student submits a Grade Review Form received from the dean/supervisor within 10 days of receiving the form from the dean/supervisor. The dean/supervisor sends a copy of the student's completed Grade Review Form within five days, to be returned with a written response from the teacher within 10 days after receiving the form from the dean/supervisor. The dean/supervisor will convene the Grade Review Committee, and the committee will meet within 10 days of receipt of the completed Grade Review Form from the teacher to determine whether to dismiss or hear the case.

The Grade Review Committee will dismiss the appeal if:

- The student has submitted the same, or substantially the same, complaint to any other formal grievance procedure;
- The allegations, even if true, would not constitute arbitrary and capricious grading;
- 3. The appeal was not timely; or
- The student has not conferred with the teacher or with the teacher's dean/supervisor in accordance with Step I of these procedural steps.

Step III. If the request for review is not dismissed, the Grade Review Committee will submit a copy of the student's written statement to the teacher with a request for a written reply within 10 working days. (If this step has not been taken prior to the convening of the committee, see Step II above.) If it appears that the dispute may be resolved between the student and the teacher, the committee will attempt to arrange a mutually agreeable solution between these two parties.

If a mutually agreeable solution is not achieved, the Grade Review Committee will proceed to hold an informal, non-adversarial, fact-finding meeting concerning the allegations. Both the student and the teacher will be entitled to be present throughout this meeting and to present any relevant evidence. Neither the student, or the teacher will be accompanied by an advocate or representative. This meeting will not be recorded by any parties and will not be open to the public.

The Grade Review Committee will deliberate privately at the close of the fact-finding meeting. If a majority of the committee members finds the allegation supported by clear and convincing evidence, the committee members will take any action which they feel would bring about substantial justice and includes, but is not limited to:

- 1. Directing the teacher to re-evaluate the student's work.
- 2. Directing the teacher to administer a new final examination or paper in the course.
- 3. Directing the cancellation of the student's registration in the course.
- Directing the award of a grade of "pass" in the course, except that such a remedy should be used only if no other reasonable alternative is available.

The Grade Review Committee is not authorized to award a letter grade. The decision of this committee will be final. The dean/supervisor will be responsible for implementing the decision of the committed.





Student Activities

Student Activities

Learning does not end in the classroom. The College of DuPage Student Activities staff provides classroom and experiential learning opportunities in a supportive, values-based environment to prepare and inspire students to be active leaders in a complex and ever-changing society.

Through active involvement in student clubs and organizations, students have the opportunity to plan and implement such events as concerts, speakers and dances; to tackle issues of the student body through participation in college committees; and to use creative skills learned in the classroom for the betterment of the college community.

Student leaders participate in the allocation of student service fees, which are used by the Student Activities staff and six student organizations to provide services and activities for the diverse student body.

Student Clubs

More than 60 student clubs provide many opportunities for students to interact through a connection with academic programs, topical interest sharing, sharing of leisure-time activities and social interaction. Practicing leadership, business and organizational skills outside the classroom enhances students' life and career goals.

For a list and description of student clubs and organizations, stop in Student Activities, Student Resource Center (SRC); call (630) 942-2243; or check the college's web site (www.cod.edu) under Student Life and then Clubs and Organizations. Current students may also log on to the myCOD student portal, click the "campus life" tab and then "all clubs."

Student Leadership Council

The Student Leadership Council represents the student body to the administration and provides a place for students to become involved in the college community. The Student Leadership Council was formed from the Student Government Association in 2002-03 to strengthen the "Student Voice" and encourage students to "Speak for Yourself" through direct participation.

Various levels of involvement are available for students who wish to supplement their education with practical leadership experiences. Students are encouraged to contact the S.L.C. officers in their office in the Student Resource Center (SRC), to attend meetings and workshops held weekly in the same location and to check the S.L.C. page on the myCOD portal. More inclusive voting procedures allow any student who participates consistently to vote on issues before the Council.

Students are needed to serve on such college committees as Dining Services, Curriculum, Traffic Appeals, Bookstore and others. Elections for Student Body President, Vice President and Student Trustee are held in April of each year; appointment of three coordinators takes place following those elections. Small stipends may also be earned in several S.L.C. positions.

For more information, call (630) 942-2095 or stop by the S.L.C. office in the Student Resource Center (SRC).

Student Activities Program Board

Planning and implementing events for College of DuPage students is the primary function of the Student Activities Program Board (S.A.P.B.). S.A.P.B. "producers" oversee several areas of operation and earn a stipend each term.

The "crew" members assist with the multitude of tasks required to make any event a success.

The Program Board sponsors a daytime series ("Oasis") at many campus locations, featuring local and national acts, including comedians, music of many genre, hypnotists and magicians, as well as interactive games. The evening "Alter Ego" series brings up-and-coming local groups to the college. Other events are implemented as students' creativity and training increases.

If you're interested in becoming involved with the planning and implementation of a variety of events, contact the S.A.P.B. at (630) 942-2712 or visit the Student Activities office in the Student Resource Center (SRC).

International Honor Society

The college's Phi Beta chapter of Phi Theta Kappa, the International Honor Society for Two-Year Colleges, is very active on the local, regional and international levels. Any student may participate in the activities of this organization. However, to accept full membership in the society, students must have 12 cumulative hours with a 3.5 cumulative G.P.A. A one-time membership fee is required.

The Phi Beta Chapter implements a full range of activities in the areas of the society's hallmarks of leadership, scholarship, fellowship and service around an Honors Study Topic. For more information on events or membership, contact the chapter in their office in the Student Resource Center (SRC) or call (630) 942-3053.

Services Provided

The annual Commencement Ceremony, held the last Friday of Spring Semester, is coordinated by the Student Activities staff. Students who have petitioned for graduation through the Records office will receive information about the ceremony in April.

Discount tickets for movie theaters, Pace bus passes and Great America are offered for sale to the college community. In addition, tickets for student club and organization events are available periodically through Student Activities. Call (630) 942-2243 for more information.

The Student Activities Oasis Lounge is a place for students to gather and have fun on campus between classes. Billiard tables, board games, ping pong and a TV provide opportunities for students to interact with each other. A cyber lounge is also available for easy access to the Internet and e-mail for non-academic use.

Student lounges, located throughout the campus buildings, provide students with places to gather, study and socialize. The Student Activities staff manages and updates these lounges periodically. A TV lounge is located on the first floor of the Student Resource Center.

Posting on campus, limited to college departments, committees, student clubs and organizations, is provided by the Student Activities staff for general bulletin boards in classrooms, lounges and entryways. For more information, contact the Student Activities staff at (630) 942-2243. Posting by community groups or individuals is limited to the kiosk near the TV lounge. Non-college entities wishing to distribute printed materials for a non-profit or political group should contact the Student Activities staff, (630) 942-2243, for more information.

Student Newspaper and Feature Magazine

A perennial award-winner for content and design, the Courier student newspaper circulates to students and staff on campus, and online at www.cod.edu/courier throughout the college district. Editors and reporters work in paid positions and can receive college credit in Cooperative Education for writing, editing, photography, layout and circulation. The Courier staff also publishes the 52-page Chaparral feature magazine twice yearly with studentwritten articles on travel, career, holiday and human interest. To work for these publications, students should enroll in Journalism and Mass Communication 1110, Newspaper Lab, or Journalism and Mass Communication 1115. Feature Magazine Lab. For more information, stop by the Courier/Chaparral office, Student Resource Center (SRC), Room 1560, or call Cathy Stablein, faculty adviser, at (630) 942-2650, or e-mail stablein@cod.edu. Publications are viewable at www.cod.edu/courier.

Student Literary Magazine

The Prairie Light Review is the Liberal Arts magazine for College of DuPage. It publishes poetry, prose, photography and art from students, staff and community members from District 502. To work on the magazine, students enroll in English 2210, a one credit-hour class, where they evaluate submissions, work on layout, and handle publicity. For additional information, contact the PLR office at (630) 942-2733.

Off-Campus Hospitalities

Each term a Hospitality Week is held at the off-campus centers, offering all students coffee, cookies, a new *Class Schedule*, and an opportunity to talk to a counselor about their plans for the next term. A Hospitality Night is held during the same week at each high school that offers C.O.D. classes. Supported by student fees, the hospitalities give off-campus students an opportunity to meet staff and counselors and to ask questions about their future education plans. The events encourage students to feel they are a part of the College of DuPage family.



Forensics (Speech Team)

The forensics program at College of DuPage is one of the most competitive speech and debate teams in the state of Illinois. As many as 30 students participate in the program, which includes readers' theater, public address, debate, oral interpretation and acting. Teams compete in tournaments with other community colleges and universities throughout the state and nation. The speech teams have won numerous national championships and have ranked in the top 10 in the nation each of the past 20 years. Many forensics team members have been recipients of scholarships at four-year schools. Beginners as well as seasoned performers are welcome. For more information, call (630) 942-2054.

Performing Arts

Since the opening of the McAninch Arts Center in fall 1986, opportunities to participate have increased: During the past year, the Performing Arts program created more than 2,000 opportunities for student and community members to perform. Performance spaces in the McAninch Arts Center include the 800-seat Mainstage for concerts, musical comedy, opera and professional touring shows; the 200-seat Theatre 2 for drama and smaller musical recitals; the flexible Studio Theatre, which seats 75 to 90; and the 88-seat Lecture Hall for lectures, poetry readings, and workshop theater productions. For more information, call (630) 942-3008 or visit AtTheMAC.org for performance information.

Choral Music

Singers of all levels and interests will find opportunities in the college's three choral ensembles. The DuPage Chorale (Monday evening) and Concert Choir (11 a.m. Monday, Wednesday and Friday) are open to all students and community members. The Chamber Singers is a specialized group for more advanced singers and can be joined by audition. Call (630) 942-3008, for more information.

Band Music

The DuPage Community Concert Band (Monday evening) is open to all student and community musicians, and rehearses one night a week. Call (630) 942-3008, for more information.

Guitar

Guitar Ensemble (Tuesday and Thursday afternoon) offers a small group performing experience for those interested in exploring jazz guitar.

Jazz

This program offers a wide array of performing opportunities during the day and evenings. Small Group Jazz (Tuesday, Wednesday and Thursday noon) is open to any musician interested in exploring the small group jazz idiom. DuPage Community Jazz Ensemble (Wednesday evening) is open to any interested musician. For more information, call (630) 942-2369 or 942-3008.

Orchestra

The student chamber orchestra rehearses Monday afternoons. For more information on Chamber Orchestra, call (630) 942-3008.



Percussion

Percussion Ensemble (Tuesday and Thursday afternoon) is open to any student interested in exploring the instruments, methods, compositions and writings related to percussion playing and performance.

Theater

From August through May, five fully staged and designed theater productions are offered, which are produced in one of the three performance spaces. In addition, students may participate in the Freestage program, which offers opportunities for students to direct, write and act in their own productions. Each summer, two more productions are included in the Summer Repertory Theater.

Auditions are open to all district residents. Students and community members may also help in costumes, set construction and crew for all productions. For more information, call (630) 942-3008.

Athletics

College of DuPage has one of the most successful community college athletic programs in the nation, winning numerous national, district and regional championships in various sports.

Intercollegiate Athletics

Teams play in the North Central Community College Conference (N4C) along with Joliet, Rock Valley, Triton and Harper. The college is a member of the National Junior College Athletic Association (NJCAA). Intercollegiate sports for men include baseball, basketball, cross country, football, golf, soccer, swimming and diving, tennis, track and field.

College of DuPage has women's teams in basketball, cross-country, soccer, softball, swimming and diving, tennis, track and field, and volleyball.

For more information call the Athletic Department at (630) 942-2365, or visit our web site at www.cod.edu/athletics.

Intramurals

Intramural activities provide students, faculty and staff the opportunity to participate in a variety of competitive or recreational sports activities. Contact the Athletic Department, (630) 942-2365, to get involved.

Mascot and Colors

Students who zipped around the district to temporary classrooms when the college opened in 1967 reminded someone of roadrunners; hence, the chaparral became the school mascot.

College colors are forest green and gold.

Cheer Team

College of DuPage's spirited cheer team performs at all home football and basketball games.

Contact the Athletic Department, (630) 942-2365, for more information.







Academic Information

Areas of Study

College of DuPage offers a wide variety of courses and programs to meet the diverse needs of its students.

Students may engage in areas of study that emphasize:

- the arts and sciences and offer the beginning of a baccalaureate or university curriculum:
- · occupational/vocational degree and certificate programs designed to fulfill the unique employment requirements of the community;
- continuing education and community service programs for persons wishing to take one or more credit or noncredit courses on a part-time basis;
- · developmental programs that assist students in achieving college-level skills.

Occupational Programs

Accounting

Advertising, Design and Illustration

Air Conditioning (HVAC)

Architecture

Automotive Service Technology

Certified Nurse Assistant (CNA) (See Health Sciences.)

Certified Medical Assistant (See Health Sciences.)

Clinical Laboratory Science (See Health Sciences.)

Computer Information Systems

Computer and Internetworking Technologies

Computer-Assisted Drafting and Design (See Architecture

or Manufacturing.) Cosmetology Criminal Justice Dental Hygiene

Diagnostic Medical Imaging Mammography Diagnostic Medical Imaging Nuclear Medicine Diagnostic Medical Imaging Radiography

Diagnostic Medical Imaging General Sonography Diagnostic Medical Imaging Vascular Sonography

Early Childhood Education and Care Electro-Mechanical Technology **Electronics Technology**

Emergency Medical Technician (See Fire Science.)

Facility Management

Fashion Merchandising and Design

Fire Science

Foodservice Administration Graphic Arts Technology Health Information Technology

Health Sciences Horticulture

Hotel and Lodging Management

Human Services

Integrated Engineering Technology (Mecomtronics)

Interior Design

Library and Information Technology Long-Term Care Administration

Management

Manufacturing Technology

Marketing

Medical Transcription (See Health Information Technology.)

Motion Picture/Television Nursing (Associate's degree) Office Technology Information Paralegal Studies

Paramedic (See Fire Science.)

Pharmacy Technician (See Health Sciences.) Phlebotomy / EKG (See Health Sciences.)

Photography

Physical Therapist Assistant

Physician Office Coding and Billing (See Health

Information Technology.) **Radiation Therapy**

Real Estate Respiratory Care

Speech-Language Pathology Assistant

Surgical Technology

Technical Communication (see English)

Travel and Tourism Welding Technology

Degrees

Associate in Arts Associate in Science

Associate in Applied Science Associate in Engineering Science Associate in General Studies Associate in Fine Arts - Fine Arts

Associate in Fine Arts - Music Associate in Teaching - Secondary Mathematics

Transfer Areas of Study

Accounting

Anatomy and Physiology

Anthropology

Art Biology **Botany Business Business Law** Chemistry

Computer Science Criminal Justice

Earth Science

Early Childhood Education

Economics Education Engineering English Fashion Design Geography History Horticulture Humanities

Interior Design

Journalism and Mass Communication

Languages (Chinese, French, German, Italian, Japanese,

Korean, Russian, Spanish)

Mathematics Microbiology Music Philosophy **Physical Education**

Physics

Political Science Pre-Dentistry Pre-Law Pre-Medicine Pre-Nursing

Pre-Occupational Therapy

Pre-Pharmacy **Pre-Physical Therapy** Pre-Veterinary

Psychology Religious Studies Social Science Sociology Speech Communication Theater Zoology

Transfer Courses

The college offers courses that transfer to baccalaureate-granting institutions and can lead to a bachelor's degree in such fields as liberal arts, business, education and engineering; and pre-professional work leading to degrees in dentistry, medicine, law, veterinary medicine, nursing, pharmacy and other professions. Since degree requirements are not uniform among baccalaureate-granting institutions, students planning to transfer to a specific institution should, at an early date, obtain that institution's *catalog* and plan their program according to the freshman and sophomore curriculum of that institution or consult the institution's program guide online. Both counselors and advisers are available to assist students in selecting courses to meet curriculum requirements of baccalaureate-granting institutions.

Business/Occupational/Vocational Programs

College of DuPage provides a comprehensive series of occupational and career programs designed to fulfill the needs of the community's residents and employers. Any individual who wishes to learn or improve occupational skills may choose from a wide variety of course offerings. Many of these programs grant an Associate in Applied Science degree.

Certificate Programs

Certificate courses of study are designed for students not pursuing an associate's degree but who are interested in taking technical or professional courses needed to enter a field of employment or to update current skills. Most courses taken in a certificate program may be applied to an AAS degree in the same field of study.

Cooperative Agreement Instructional Programs

The following selected programs are available at in-district rates at other community colleges. Prior to registration at the cooperating colleges, students should complete approval forms from the College of DuPage Admissions and Information office.

Elgin Community College Dental Assisting Truck Driving

William Rainey Harper College

Building Codes and Enforcement

Cardiac Technology Dietetic Technician

Commercial Credit Management/Insurance

Human Resource Management

NetPrep/Network Specialist

Park and Golf Maintenance

Supply Chain Management

Joliet Junior College Agricultural Production and Management Agricultural Supply and Business Kishwaukee College
Diesel Power Technology
Power Equipment Repair/Advanced Power
Equipment Repair

Moraine Valley Community College Aircraft Inspection Recreation Therapy/Management

Oakton Community College Financial Services International Trade

Waubonsee Community College Auto Body Painting and Repair Interpreter Training/Sign Language

Chargebacks

Individuals who want to enroll in an Associate in Applied Science degree or certificate program not offered by their own community college or through the Cooperative Agreement program (described previously) may apply for a chargeback, which is financial assistance with the out-of-district portion of the tuition (Board Policy 6305). Students should apply for a chargeback through the Admissions office of their own community college at least 30 days (if possible) prior to the beginning of the term for which they intend to enroll. Chargebacks are available for community colleges within the State of Illinois.

Most community college districts do not approve chargebacks for single courses within a curriculum, developmental or non-credit courses or Associate in Arts or Associate in Science degrees.

Credit by Demonstrated Competence

The College of DuPage Credit by Demonstrated Competence program offers students the opportunity to demonstrate their achievement outside the classroom and gain college credit for it. Students may complete 42 of the 64 semester credits needed toward an associate's degree through this program. The credit can be gained by the following methods:

Credit by C.O.D. Proficiency Credit by National Examination Articulated Credit Independent Study/Special Projects

Credit for C.O.D. by Proficiency

This method offers an opportunity to gain credit for knowledge that students have acquired in an occupation or educational environment outside of college or through other life experience that is related to specific College of DuPage courses. Through this process, students who can demonstrate that they already have the body of knowledge normally needed to complete a C.O.D. course can gain college credit without taking the course. Each faculty member has the prerogative to decide whether a specific course lends itself to this method of gaining credit and the means by which the student must demonstrate their knowledge. The Assessment and Testing office, Berg Instructional Center (IC), assists students with identifying faculty who are available for credit by proficiency.

Credit can be earned through several methods: Credit by Proficiency Through an Instructor, Credit by Examination and Credit Through Articulation.

Credit by Proficiency for C.O.D.

This method offers an opportunity to gain credit for knowledge that students have acquired in an occupation or educational environment outside of college or through other life experience that is related to specific College of DuPage courses. Through this process, students who can demonstrate that they already have the body of knowledge normally needed to complete a C.O.D. course can gain college credit without taking the course. Students must first pay a service fee at the Assessment and Testing office and pick up an application and authorization form for Credit by Proficiency.

Credit by Proficiency through Established **Examinations**

Several established exams are available on a walk-in basis. Contact the Assessment and Testing office, Berg Instructional Center (IC), Room 150, (630) 942-2401 for a list of those exams.

Credit by Proficiency through an Instructor

If an established exam does not exist, contact a full-time instructor teaching the course for permission to gain credit through proficiency. Names of faculty and procedures for earning credit are available at the Assessment and Testing office.

College-Level Examination Program

College of DuPage is a national test center for the College-Level Examination Program (CLEP). This national program is established by the Educational Testing Service and provides college-level, content-specific tests given to determine competency. All CLEP tests are computer-based.

The purpose of CLEP examinations is to compare an individual's knowledge of a subject or subject area with that of regularly enrolled students who have completed the college course in the subject area.

CLEP tests are given by appointment. The fee for taking each CLEP Examination is determined by the College Board. Test dates, registration materials and fee information are available from the Assessment and Testing office, Berg Instructional Center (IC), Room 150, (630) 942-2401.

Advanced Placement Program

The Advanced Placement Program (AP) is a program of college courses offered in high school in cooperation with the College Board of Princeton, NJ, College of DuPage accepts credit for course areas in which a student has completed an Advanced Placement Program course examination with an acceptable score. The amount of credit accepted for each Advanced Placement Program course examination is determined by its College of DuPage equivalent.

Credit through Articulation

College of DuPage has entered into articulation agreements with some district high schools for classes that adequately substitute for college classes. The agreements stipulate that when agreed-upon conditions are met, a student may apply for and receive credit at College of DuPage for these high school classes. The purpose of this cooperative effort is to eliminate needless duplication of content, save the student time and money, and to provide better continuity between high school and college curricula.

To obtain articulated credit, a student will follow application procedures included on the Application for Articulated Credit form available in the Records office in the Student Resource Center (SRC) Room 2015. Application for the credit must be filed within two years of high school graduation. The student is responsible for an official transcript being sent to the College of DuPage Records office directly from the high school. Articulated credit for a particular high school course will be recorded on a student's transcript only after the student has successfully completed at least one credit course at College of DuPage.

Independent Study/Special Project Courses

Independent study allows students to pursue a special topic or project with the supervision of a faculty member. Normally, independent study students investigate areas that are not covered in-depth in a regular Catalog course.

For information, call the program coordinator at (630) 942-2271.

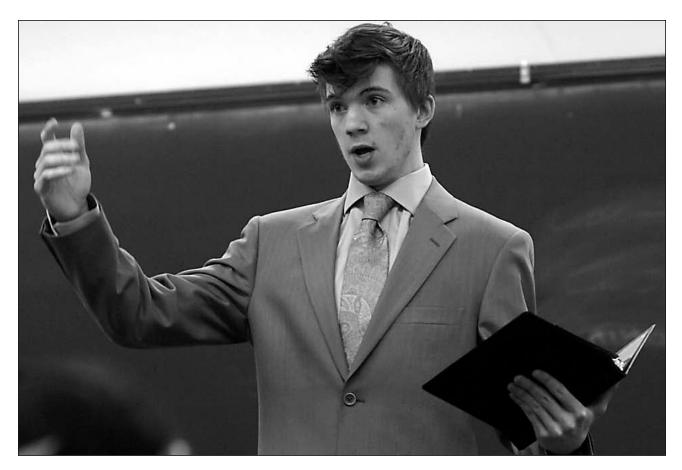
Honors Program

Honors courses are enriched versions of regular courses designed to help academically talented and highly motivated students achieve their maximum potential. Each year a range of courses in the liberal arts and sciences is offered consistent with the emphasis on general education in the first two years of college. Honors classes are characterized by smaller size and a seminar format, which encourages extensive interaction among students as well as between student and professor. Many students especially appreciate this opportunity to get to know other students better and to feel more a part of the academic environment of the college. Each honors course offers an in-depth treatment of course content and emphasizes the development of such intellectual skills as analysis, synthesis, critical inquiry and discussion.

In addition, students participating in the Honors Program are eligible for special transfer assistance, extracurricular activities and recognition.

Students may participate in honors in one of two ways: taking individual honors courses or joining the Honors Scholars Program.





Individual Honors Courses

Students meeting the general eligibility criteria listed below may apply for an honors permit through the Honors Program office. The permit enables the student to register for honors courses.

Entering first-year students may apply after achieving one of the three following criteria: (1) a high school cumulative grade point average of 3.5 (on a 4.0 scale); (2) a composite ACT score of 25 or higher; or (3) a sufficiently high score on the English Placement Test combined with a high school cumulative grade point average of 3.3 (on a 4.0 scale) or an ACT score of 23 or higher.

Current College of DuPage students and students who have completed college credit elsewhere may apply after completing 8 or more semester credits of college-level credit with a cumulative grade point average of 3.2.

Honors courses are designated as such on the student's transcript.

The Honors Scholars Program

A student may apply for admission to the Honors Scholars Program at any time, providing he/she meets the eligibility criteria listed below:

Entering first-year students must meet one of the following criteria: (1) a high school cumulative grade point average of 3.5 out of 4.0 (or its equivalent) or (2) a composite ACT score of 25 or higher.

Current College of DuPage students and students who have completed college credit elsewhere must have completed 8 or more semester credits of college level credit with a minimum cumulative GPA of 3.5.

Students admitted to the program receive a waiver of indistrict tuition for honors courses, providing they maintain a minimum cumulative 3.5 GPA and make satisfactory progress toward completing other program requirements.

Students who complete the program requirements will receive special recognition at commencement and on their transcripts and diplomas.

For further information, call the Honors Program office at (630) 942-2749.

Honor Societies

Phi Theta Kappa (PTK), the International Honor Society for two-year colleges, is the largest and one of the most active chapters in the society. The Phi Beta Chapter implements a full range of activities in the areas of society's hallmarks of leadership, scholarship, fellowship and service around an Honors study topic.

For more information on events or membership, contact the faculty advisers: Steve Schroeder at (630) 942-2514 or Shannon Hernandez at 942-3054.

Alpha Beta Gamma (ABG) is the International Business Honor Society of Community, Junior and Technical Colleges. College of DuPage is home to the Beta Iota chapter, chartered in 2006. The society recognizes and encourages students enrolled in business and business-related technology curricula and provides opportunities for leadership training, service, scholarship funds, and the intellectual exchange of ideas. An invitation to join ABG reflects exceptional academic achievement.

For more information on events or membership, contact the faculty advisers: Kathy Horton at (630) 942-2176; Wendy Felder at (630) 942-2577; Ted Kulinski at (630) 942-4124, or the Business and Technology division office at (630) 942-2592.

Alpha Mu Gamma Honor Society recognizes students who have achieved an outstanding record in the study of foreign language (or ESL if the student's native language is not English). For more information on events or membership, contact the faculty advisers: Shingo Satsutani at (630) 942-2019 or Edith Jaco at 942-3332.

Psi Beta is the National Honor Society in Psychology for community and junior colleges. It is the first two-year college honor society approved for membership in the Association of College Honor Societies, which regulates membership requirements. The mission of Psi Beta is professional development of Psychology students through promotion and recognition of excellence in scholarship. leadership, research and community service.

For more information on events or membership, contact the faculty advisers: Ada Wainwright at (630) 942-2509, Ken Gray at (630) 942-2223, or Naheed Hasan at (630) 942-2028.

Reading, Writing and Math Testing **Reading Placement Testing**

The Reading Placement Test assesses a student's readiness for the demands of college-level reading. Upon completion of the test, students will receive a score that places them in one of four categories. These categories are used as prerequisites for most college-level courses at College of DuPage.

Students do not need to take this test to qualify as "Reading Category 1" (college-ready) if they meet ONE of the following conditions:

- College-level credit totaling 12 semester hours with at least a "C" average.
- ACT composite score of 20. Proof of score must be provided.
- SAT verbal/critical score of 500. Proof of score must be provided.
- A score of 550 paper/pencil, 213 computer-based, or 79 Internet-based on the Test of English as a Foreign Language (TOEFL). Proof of score must be provided.

Writing Placement Test

The Writing Placement Test assesses a student's readiness for college-level writing. To place into English 1101 or 1105, students must fulfill ONE of the following two options: Option 1

ACT Composite Score of 20 or higher

Option 2

- 1. Reading Category 1 (college ready) AND
- 2. Compass Writing Category 1 OR

Writing Placement Essay (WPE) Score of 4

Mathematics Placement Testing

Students who intend to enroll in Mathematics 0482, 1218, 1220, 1428, 1431, 1432, 2134 or 2231 as their first math course at College of DuPage are required to take a Math Placement Test before enrolling. This test is one component of placement in an appropriate math course. Verification of successful completion of any prerequisite courses is the second component. (Prerequisites are listed under individual courses in the mathematics section of the college Catalog.) For further math advising, contact the

Math and Natural Sciences Division, (630) 942-2010, or the Math Assistance Center, (630) 942-3339, or the Centers for Independent Learning - Math area, (630) 942-3354.

Field and Experiential Learning/ **International Education**

Local, Domestic and International Credit Courses The Field and Experiential Learning program offers students the opportunity to take college credit courses that combine traditional classroom experiences with discoveries in the world outside the classroom. A range of courses and programs (including courses in biology, humanities, science, literature, sociology, history, theater and psychology, to name a few) are offered in varying locations and formats. For example, students study marine biology at a research center in the Florida Keys, or in a three-week-long experience in Alaska, Japan or Croatia. Other programs offer students the chance to study botany. meteorology or ornithology in varied local, domestic or international locations each term.

Another strong focus in the Field and Experiential Learning program is the Outdoor Recreation program. Students enroll in physical education courses where skills such as low-impact camping, rock climbing, spelunking, kayaking, cross-country skiing, and backpacking are learned while doing the activity in settings like the Apostle Islands, Yosemite National Park and even the Antarctic. Most of these programs occur on weekends or over college winter, spring and summer breaks to meet the busy schedules of working students. A program that requires more time is the Rockies Encounter Program offered each spring, in which students practice the skills learned throughout the semester in a weeklong wilderness hiking and study excursion in the Rocky Mountains.

Finally, the Field and Experiential Learning program offers a wide variety of international travel courses where students travel with an instructor to many parts of the world, reinforcing what they have learned about the culture or history of a region from books and lectures with actual on-site experiences in the country. Recent international study experiences have included field studies in China, Cuba, Canada, Greece, England and Italy.

All field studies require that students register for one or more credit courses that structure the learning experience in the field and include the sorts of readings and assignments required in more traditional courses. For additional information, contact the Field and Experiential Learning office, (630) 942-2356.

International Education Office

The International Education office at College of DuPage serves the international and intercultural needs of the college. The office:

- · Promotes study abroad and travel opportunities to more than 30 locations;
- · Provides individual advising to students interested in studying abroad;
- Provides opportunities for staff to enhance their professional development by engaging in a variety of cross-cultural experiences, such as teaching at other institutions, committee work and attending international seminars:
- Facilitates opportunities for faculty to incorporate international/intercultural perspectives into their teaching;

- Sponsors cultural/educational events at the college designed to celebrate and raise awareness about culturally diverse groups, both domestically and internationally;
- Identifies appropriate technical assistance initiatives for the college;
- · Fosters a climate of diversity in all its forms;
- Assists in meeting the needs of culturally diverse students;
- Organizes, in conjunction with the Chicago Council on Global Affairs, formerly CCFR, a monthly lecture series on contemporary global affairs.

The International Education office is located in the Berg Instructional Center (IC), (630) 942-3078 and (630) 942-3079.

Academic Policy

Credit

College of DuPage uses the semester system. This means that the academic year is divided into two semesters of approximately 16 weeks each and a summer term. The number of semester hours of credit granted for each course varies. (The "Course Descriptions" section of this *Catalog* lists the value of each course in hours.) A student must be enrolled in a minimum of 12 hours to be considered full-time. Half-time status is 6 to 11 semester credits.

In addition to standard semesters, the college also offers some terms that vary in length from the standard and may affect determination of status.

Class Standing

A student who has earned fewer than 30 semester credits is considered a freshman. A student with 30 or more hours has sophomore standing.

End of Semester Grades

Final Grades may be accessed online at www.myaccess.cod.edu.

Grading

The following abbreviations appear on student records:

- A High degree of excellence in achievement
- B Better than average achievement
- C Average/acceptable achievement
- D Minimum standard of achievement
- F Failure to complete minimum requirements
- S Satisfactory
- I Incomplete
- W Withdrawal
- X Audit

Grade Points

The following grade point values are assigned to letter grades:

- A 4 for each semester hour of credit
- B 3 for each semester hour of credit
- C 2 for each semester hour of credit
- D 1 for each semester hour of credit
- F 0 for each semester hour of credit

Grades of "S," "I," "R," "W" and "X," and courses numbered below 1000 are not included in the official grade point average (GPA), but will be shown on a student's transcript.

Incomplete Grade

The instructor of record may give an incomplete or "I" grade when a student has been unable to complete the course within the prescribed time due to unforeseen circumstances. The student is responsible for contacting the instructor of record or, when the instructor of record is no longer employed at the college, the appropriate dean regarding course completion. Course work must be completed within the time limits prescribed by the instructor of record but not to exceed twelve (12) months from the end of the term in which the "I" grade was assigned. The "I" grade may be changed within the time limit prescribed by the instructor of record. If the "I" has not been changed by the instructor of record at the end of the twelve (12) month period, the "I" will automatically change to an "F." During the time the "I" is on the student's record, it will not be calculated into the grade point average.

Withdrawal From Class

Students are encouraged to consult directly with the instructor when considering a course withdrawal. Students will not receive a grade when withdrawing during the 100 percent refund period. Students may withdraw from a course by contacting the Registration office until midterm of the class has passed and receive a grade of "W." After midterm, written permission to withdraw signed by the instructor must be presented to the Registration office by the student prior to the end of the semester.

Administrative Withdrawal

Students not actively pursuing the completion of course objectives may be withdrawn from the class by the instructor. Instructors of courses numbered below 1000 may assign a final grade of "W" without an official withdrawal through the Registration office.

Repeating a Course

A student may repeat any course taken at College of DuPage. In such cases, credit will be granted only once (except as noted in the "Course Descriptions" section of this *Catalog*) and only the higher grade will figure in the grade point average. The lower grade will be marked as repeated and will not affect the GPA as of the term it was retaken.

Auditing a Course

A grade of "X" will be recorded on the academic record when the intent to audit is indicated at the time of registration and the appropriate tuition charged. The audit grade of "X" earns no credit and does not affect the grade point average.

The Satisfactory/Fail (S/F) Grading Option

Certain classes, as identified in the College of DuPage Class Schedule, offer only "Satisfactory/Fail" grades. In all other classes, the student and the instructor may choose "Satisfactory/Fail" grading. The instructor retains the prerogative to determine whether the "Satisfactory/Fail" option is applicable to the course. It is the responsibility of the instructor to set deadlines for students' grade option decisions and communicate these deadlines to the students during the first week of instruction. All students desiring the "Satisfactory/Fail" option must sign a contract with the instructor confirming the use of the "Satisfactory/Fail" grading option contract.



The contract must be submitted to the Registration office no later than one week prior to the end of the class. The "Satisfactory/Fail" contract cannot be revoked after the grade has been posted. The satisfactory or "S" grade will not be computed in the GPA; the fail or "F" grade will be computed.

Credits earned in the Communication, Physical/Life Sciences, Mathematics, Humanities/Fine Arts and Social and Behavioral Sciences categories may NOT be graded with a satisfactory/fail grade if you are seeking any degree other than the Associate in General Studies degree or the Associate in Applied Science degree. Only 12 hours of "S" credit may apply toward any degree.

Academic Honors

Each semester College of DuPage recognizes students whose grades reflect outstanding achievement.

All students who are enrolled in at least six (6) credit hours of 1000-level or above, and whose semester grade point average is 3.50 to 4.00 inclusive, will be listed on the Academic Honors List. These honors become part of the student's permanent academic record. Names of students achieving academic honors are submitted to local newspapers.

Graduation Honors

Graduation honors are indicated on the diploma and are designated as follows: "Highest Honors" is awarded to students earning a minimum of 40 credits at College of DuPage and a cumulative College of DuPage grade point average of 4.00. "High Honors" is awarded to students with a cumulative College of DuPage grade point average of 3.60 to 4.00. "Honors" is awarded to students with a cumulative College of DuPage grade point average of 3.20 to 3.59. Graduation honors are determined from the cumulative grade point average in the semester in which the student completes degree requirements.

Students must take at least 8 semester hours of credit for letter grades (excluding "S") to be eligible for honors recognition at graduation.

Honors Courses

Honors courses are designated as such on the permanent academic record. Students who complete the Honors Scholar Program receive special recognition on the academic record, the diploma, and at the Celebration of Academic Excellence.

Standards of Academic Progress Good Standing

Students are considered to be in good standing unless disciplinary sanctions or academic sanctions have been placed against them or they have overdue financial obligations to the college.

Academic Warning

Students are placed on academic warning when less than 12 attempted College of DuPage cumulative hours are recorded and the cumulative grade point average is below 1.50. Academic warning does not restrict registration, but students are encouraged to discuss the lack of satisfactory progress with a faculty adviser or counselor.

Probation

Students are placed on probation when their cumulative grade point average is below the minimum for the cumulative attempted hours.

Students are expected to maintain a 2.00 cumulative GPA upon reaching 12 cumulative attempted hours.

Students placed on probation are required to review their academic progress with a counselor prior to enrollment for the next semester. Students are restricted from registration until they comply. Students already enrolled in the next semester are restricted from further credit course registration until they comply. Students who have previously met with a counselor and have a GPA of 2.00 or above for the most recent semester, but still have a cumulative GPA under 2.00 will continue on probation. Students on probation will continue to be required to see a counselor to review their academic progress, and a counseling hold will remain in effect.

Students will be restored to good standing when their cumulative GPA reaches 2.00.

Academic Suspension

A student will be suspended for one semester if their current GPA remains below 2.00 and their cumulative grade point average continues below 2.00. A second occurrence will result in a three-semester suspension.

Academic Reinstatement

Subsequent to suspension, students must request reinstatement through an interview with a counselor. Once reinstated, course selection will be restricted. Failure to achieve reinstatement will result in denial of future registration.

In the semesters following academic reinstatement, if the semester grade point average is 2.00 or above, students will be placed on continued probation status until the cumulative grade point average meets the minimum of 2.00. If the semester GPA is below 2.00 and the cumulative GPA is below 2.00, the student again will suspended.

Academic warning, probation and suspension notations are recorded on the academic record.

Excessive Withdrawal Policy

The following procedures are currently in effect for students with a recurring, overall pattern of withdrawal from College of DuPage courses.

- Students who have withdrawn from four (4) courses (excluding withdrawals during the first week of classes) are sent a letter encouraging them to consult with a faculty adviser or counselor to discuss the possible negative impact of repeatedly withdrawing from classes.
- Students who have withdrawn from eight (8) or more courses are required to meet with a counselor prior to their registering for their next term of course enrollment. Registration is not allowed until this requirement is met.
- Students continuing this same non-completion pattern are again required to meet with a counselor and will be restricted from registering for every two (2) additional withdrawals.
- Failure to make satisfactory academic progress as stated in the "Excessive Withdrawal Policy" will result in treatment consistent with the Standards of Academic Progress procedures.

Appeal

Appeals relating to the Standard of Academic Progress policy may be made to the Dean of Student Services. Appeals concerning stated academic policy may be made to the Academic Regulations Committee through the Records office, Student Resource Center (SRC).

Forgiveness Policy (Board Policy 5206)

The College of DuPage Forgiveness Policy is intended for those students who have experienced previous academic difficulty at C.O.D. and now wish to build an academic record that is not weakened by past failures.

Eligibility

Students are encouraged to retake classes whenever possible to achieve an improved grade; however, a student can apply for forgiveness of past "F" grades any time after all of the following policy requirements are met:

 A period of at least 36 months of non-enrollment has elapsed since the end of the term of grades to be forgiven.

- A minimum of 12 consecutive semester credit hours with no grades of "D," "F," "S," "I," or "X" and no more than two "W"s must be earned at C.O.D. before the forgiveness policy will be considered for a student. A student must earn the number of credit hours with a grade of "C" or better equal to the number of credit hours of "F" grades to be forgiven. "F" grades for courses below the 1000-level and from other colleges or universities will not be forgiven.
- A maximum of 18 semester hours of 1000-level courses and above will be forgiven.
- Forgiveness will be granted one time only for each student.

Procedure

Students meeting the eligibility requirements may apply directly to the Records office.

When the eligibility requirements have been fulfilled and forgiveness granted, the student's cumulative grade point average will be recalculated with the "F" grades removed from the calculation. However, the "F" grades will remain on the student's official transcript with a notation indicating that the student has been granted forgiveness. A copy of College of DuPage's Forgiveness Policy will be made available to requesting institutions.

The college accepts no responsibility for the ways in which a transfer institution or an employer might interpret a student's use of the forgiveness option. Financial aid eligibility is determined by the Standards of Progress policy for financial aid recipients. If a student is granted academic forgiveness, eligibility for financial aid is not guaranteed.

Students who re-enter the college under academic forgiveness must follow and adhere to terms of the *Catalog*, including all academic requirements and policies, of the year of re-entry.

Official Transcripts

Order your College of DuPage transcripts online at www.cod.edu. Click on "Quicklinks," then "Records" and then "Ordering Transcript."

Transfer Credit Evaluation

Students intending to earn a degree or certificate at College of DuPage, and expecting to apply credit earned elsewhere, must contact institutions previously attended requesting an official transcript to be sent directly to the Records office. Credits from other schools are evaluated upon the request of the student. Transcripts with an accompanying evaluation request form will be evaluated starting the second week of the student's first semester.

Degree Audit

A computerized degree audit reports your progress toward the completion of the degree or certificate you intend to earn at College of DuPage. The audit lists the categories completed and in progress, the requirements not met and courses from which you may select to complete your degree or certificate.

If you have earned credit at College of DuPage, are working toward a degree or certificate, or are planning to transfer to another college or university, you may check your progress toward the completion of the degree or certificate by running your own degree audit. You may do this online at www.myaccess.cod.edu. You may run any degree or certificate; however, audits are run only under the current

Catalog requirements. You need your Social Security (or assigned identification) number and PIN number.

An Illinois Articulation Initiative (IAI) audit reports by category all courses you have completed that fulfill the General Education Core curriculum. The audit also lists all other College of DuPage courses from which you may select to complete the IAI General Education Core curriculum. The Illinois Articulation Initiative (IAI) is designed to facilitate the transfer of students from one Illinois institution to another. You may order an IAI audit in the Records office.

Transfer

Whether College of DuPage courses transfer to another institution is determined by that institution. Generally, courses numbered 1100 and above are accepted by other institutions when these courses are part of, or applicable to, a degree at that institution. Students who follow transfer guidelines should have no difficulty transferring. Students planning to transfer should:

- 1. Begin early to explore possible transfer institutions.
- 2. Become aware of the requirements and policies of possible transfer institutions.
- 3. Confer with a faculty adviser or counselor concerning transfer plans.

Dual Admission Agreements

Dual Admission Agreements assist students in making a smooth, seamless transition from the two-year community college to the university. The agreement between a community college and a university provides students with the opportunity to be admitted to both institutions at the same time.

Among the benefits derived from a dual admissions agreement are:

- 1. Taking advantage of the lower cost at a community college for the first two years
- 2. Earning an associate's degree and a bachelor's degree from quality schools
- 3. Obtaining academic advising from both institutions, which insures a smooth transfer
- 4. Accessing various institutional programs and services

College of DuPage has dual admission agreements with the following institutions:

- Elmhurst College
- Lewis University
- Northern Illinois University
- Northeastern Illinois University
- Roosevelt University

Illinois Articulation Initiative

Illinois Articulation Initiative (IAI) is designed to facilitate the transfer of students from one Illinois institution to another. Both a general education core curriculum and a lowerdivision major recommendation course listing has been developed.

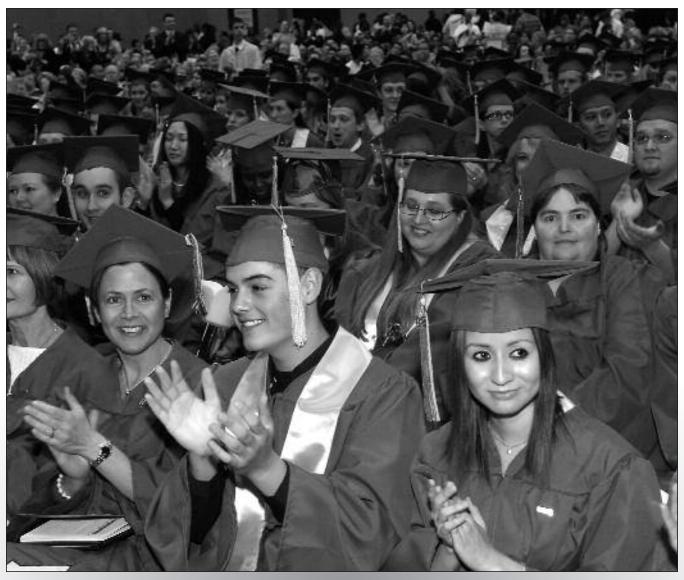
The IAI General Education Core Curriculum (G.E.C.C.) is divided into five categories: Communication, Mathematics, Physical/Life Sciences, Humanities/Fine Arts and Social/Behavioral Sciences. Successful completion of these core courses at any participating college or university in the state of Illinois will facilitate transfer to any other participating associate's or bachelor's degree program.

Students seeking a bachelor's degree through enrollment in more than one Illinois institution can satisfy lower-division general education requirements by:

- Completing the transferable General Education Core Curriculum as part of completing an AA or AS degree at a community or junior college;
- Completing the transferable General Education Core Curriculum at any participating institution before transfer admission to a bachelor's degree-granting institution: or
- Students who complete less than the IAI GECC should take courses toward fulfilling the General Education Requirements of their transfer institution.

For additional information, check the Transfer web site at www.itransfer.org and the College of DuPage transfer guide web site at www.cod.edu/dept/regner/maintest.htm.









Degrees and Certificates

At press time, degree and certificate information was current. For updates, consult the college web site: www.cod.edu.

Degrees

Nine degrees are granted by College of DuPage:

- 1. The Associate in Arts degree represents the first two years of study for students who plan to pursue a bachelor's degree in liberal arts.
- 2. The Associate in Science degree represents the first two years of study for students who plan to pursue a bachelor's degree in science.
- 3. The Associate in Engineering Science degree is intended for students who wish to prepare for transfer to a baccalaureate-granting school in the field of engineering.
- 4. The Associate in Applied Science degree represents the completion of study in an occupational/vocational program. Students earning this degree may seek employment following graduation or transfer to a baccalaureate-granting college or university that has articulation agreements with the College of DuPage for these programs of study.
- 5. The Associate in General Studies degree is designed for students who desire to arrange a program of courses to meet their personal interests.
- 6. The Associate in Fine Arts degree in Art is intended for students who wish to prepare for transfer to a baccalaureate-granting school with a Bachelor in Fine Arts program.
- 7. The Associate in Fine Arts degree in Music is intended for students who wish to prepare for transfer to a baccalaureate- granting school with a Bachelor in Music program.
- 8. The Associate in Arts in Teaching Secondary Mathematics is intended for students who wish to prepare for transfer to a baccalaureate-granting school to complete all requirements for a bachelor's degree and teacher certification at the secondary level for mathematics.
- 9. The Associate in Arts in Teaching Early Childhood Education is intended for students who wish to prepare for transfer to a baccalaureate-granting school to complete all requirements for a bachelor's degree and the Type-04 Teacher Certification for Early Childhood Education.

Degrees are awarded at the close of each semester. However, when a student completes all requirements for a degree, the completion date is recorded on the student's permanent academic record. The requirements for each degree are recommended by the faculty and approved by the president of the college.

Graduation Requirements for All **Associate's Degrees**

Students are subject to the degree requirements that are in effect during the academic year in which they originally enroll, as well as subsequent applicable changes. It is the responsibility of the student to verify the appropriate degree requirements with a program adviser and the Records office. Current degree information is also available on the official College of DuPage web site, www.cod.edu/Academic/AcadInfo/Cert Deg/Degrees.htm.

Each candidate for a degree shall:

- 1. Complete at least 64 credits in courses numbered 1000 or above (or equivalent) as specified for each degree.
- 2. Possess a minimum 2.0 ("C") average in the combined grade point average of all College of DuPage courses numbered 1000 and above and all courses accepted for transfer from other institutions.
- 3. Complete a minimum of 20 applicable credits toward a degree at College of DuPage, with the final 10 credits at the college.
- 4. File a petition and request a degree audit at least one semester before the anticipated completion date.
- 5. Satisfy all financial obligations and other specific requirements.
- 6. Be in good standing at the time final credits for the degree are earned.

Note: Students are subject to degree requirements as stated in the College of DuPage Catalog current at the time of original enrollment, as well as subsequent applicable changes, unless enrollment has been broken for more than three consecutive semesters including summer semester. When enrollment has been broken for more than three consecutive semesters, the student is subject to degree requirements stated in the College of DuPage Catalog current at the time of re-enrollment.

Associate in Arts Degree **Degree Requirements**

(Total Minimum Credits Required: 64) (A complete list of General Education Core Curriculum transfer courses is available at the Illinois Articulation Initiative web site: www.itransfer.org).

Each candidate for an Associate in Arts (A.A.) degree shall:

- 1. Select courses to complete the required credits from:
 - a. general education core requirement courses,
 - b. coursework in the Human Relations, Global/ Multicultural Studies, and Contemporary Life Skills categories and
 - c. elective courses (See Notes at end of A.A. degree) to a minimum of 64 credits.
- 2. Satisfactorily complete a minimum of 37 credits in General Education Core Curriculum (Illinois Articulation Initiative course codes are listed in parentheses after each course or sequence) in the Communication, Physical and Life Sciences, Mathematics, Humanities and Fine Arts, and Social and Behavioral Sciences categories as specified below. (Note: Refer to p. 73 for a discussion of general education core requirements)
 - Written (6 credits) English 1101 (C1 900) and 1102 (C1 901R) (Grade of "C" or higher required for both courses) Oral (3 credits) Speech 1100 (C2 900) (Grade of "C" or higher required)
 - b. Physical and Life Sciences7 to 10 credits Select one course from Life Sciences and one course from Physical Sciences. (Choose only one course from the list of same IAI codes for general education credit. Additional courses with the same IAI code will count as elective credit toward your degree.) At least

one course must have a laboratory component. Life Sciences Anatomy and Physiology 1500 (L1 904L), 1551 (L1 904L), 1571 (L1 904L) Biology 1100 (L1 900L), 1110 (L1 905L), 1120 (No Lab) (L1 906), 1130 (L1 906L), 1151 (L1 900L) Botany 1310 (L1 901L) Microbiology 1420 (L1 903L) Physical Sciences Chemistry 1105 (P1 903L), 1211 (P1 902L), 1551 (P1 902L) Earth Science 1101 (P1 907L), 1102 (P1 907L), 1110 (P1 905L), 1111 (No Lab) (P1 905), 1115 (P1 905L), 1122 (P1 906L), 1124 (P1 906L), 1126 (P1 906L), 1130 (P1 905L), 1135 (P1 905L), 1140 (P1 905L) Physics 1100 (P1 900L), 1201 (P1 900L), 2111 (P2 900L) c. Mathematics3 to 5 credits (Choose only one course from the list of same IAI codes for general education credit. Additional courses with the same IAI code will count as elective credit toward your degree.) Mathematics 1218 (M1 904), 1220 (M1 901), 1322 (M1 903), 1533 (M1 906), 1635 (M1 902)*, 2115 (M1 905), 2134 (M1 900-B), 2231 (M1 900-1), 2232 (M1 900-2), 2233 (M1 900-3) Psychology 2280 (M1 902)* Sociology 2205 (M1 902)* (*Only one from these three courses may count toward overall degree requirement credit.) d. Humanities and Fine Arts9 credits Select at least one course from Humanities and at least one course from Fine Arts. (Choose only one course from the list of same IAI codes for general education credit. Additional courses with the same IAI code will count as elective credit toward your degree.) Humanities Chinese 2202 (H1 900) English 1130 (H3 900), 1150 (H3 901), 1151 (H3 901), 1152 (H3 903), 1153 (H3 902), 1158 (H5 901), 1159 (H9 901), 1160 (H3 910D), 1161 (H3 910D), 1165 (H3 911D), 2220 (H3 912), 2221 (H3 913), 2223 (H3 914), 2224 (H3 915), 2226 (H3 907), 2227 (H3 907), 2228 (H3 905) French 2202 (H1 900), 2251 (H1 900), 2252 (H1 900) German 2200 (H3 909), 2202 (H1 900), 2251 (H1 900), 2252 (H1 900) History 1110 (H2 901), 1120 (H2 902), 2205 (H2 903N), 2220 (H2 903N), 2225 (H2 908), 2230 (H2 908), 2235 (H2 903N) Humanities 1102 (H9 900), 1105 (HF 904N)*, 1110 (HF 906D)* Italian 2202 (H1 900) Japanese 2202 (H1 900) Korean 2202 (H1 900) Philosophy 1100 (H4 900), 1110 (H4 904), 1116 (H4 904), 1117 (H4 901), 1118 (H4 902), 1120 (H4 906), 1125 (H4 906), 1145 (H4 905), 1150 (H5 904N) Religious Studies 1100 (H5 900), 1110 (H5 901), 1120 (H5 901), 1150 (H5 904N), 1155 (H4 903N), 2160 (H5 901)

Spanish 2202 (H1 900), 2206 (H1 900), 2208 (H1 900), 2251 (H1 900), 2252 (H1 900)

Fine Arts

Art 1100 (F2 900), 2211 (F2 901),2212 (F2 902), 2213 (F2 902), 2214 (F2 903N) English 1135 (F2 908), 1154 (HF 908)* Humanities 1101 (F9 900), 1105 (HF 904N)*, 1110 (HF 906D)* Music 1100 (F1 900), 1104 (F1 904), 1115 (F1 903N) Theater 1100 (F1 907)

*Interdisciplinary credit (HF) may be earned as either Fine Arts or Humanities.

e. Social and Behavioral Sciences......9 credits Courses must be selected from at least two disciplines. (Choose only one course from the list of same IAI codes for general education credit. Additional courses with the same IAI code will count as elective credit toward the degree.) Anthropology 1100 (S1 901N), 1101 (S1 900N), 1105 (S1 904D), 1120 (S1 903), 1125 (S1 902), 1130 (S1 904D) Economics 2200 (S3 900), 2201 (S3 901), 2202 (S3 902) Geography 1100 (S4 901), 1105 (S4 902N), 1120 (S4 903N), 1130 (S4 900N), 1140 (S4 901) History 1130 (S2 900), 1140 (S2 901), 2210 (S2 907N), 2215 (S2 916N), 2260 (S2 901) Political Science 1100 (S5 903), 1101 (S5 900), 2203 (S5 905), 2220 (S5 904N) Psychology 1100 (S6 900), 2230 (S6 903), 2233 (S6 904), 2235 (S6 905), 2237 (S6 902), 2240 (S8 900) Sociology 1100 (S7 900), 1120 (S7 904D), 2210 (S7 901), 2215 (S7 903D), 2220 (S7 902)

- 3. Fulfill these requirements in the categories specified
 - a. Complete at least one course from the Human Relations category. Refer to p. 75 for a list.
 - b. Complete at least one course from the Global/Multicultural Studies category. Refer to p. 75 for a list.
 - Complete at least one course from the Contemporary Life Skills category. Refer to p. 76 for a list
- Select courses to complete the minimum required 64 credits from General Education Core Curriculum courses, elective courses (refer to p. 75), and up to 10 credits in occupational/vocational courses to a maximum of 10 credits.
- 5. Satisfy graduation requirements for all associate's degrees (refer to p. 61).
- 6. Earn no more than 6 credits in History in the Humanities and Fine Arts, and Social and Behavioral Sciences categories combined for general education credit. Additional credits in History from general education or other categories may be earned as elective credit, unless restricted by degree requirements.
- 7. Earn no more than 4 credits in Physical Education activity courses.
- Only one of the following courses may count toward the degree: Mathematics 1428 or Mathematics 1431.
 COLLEGE OF DUPAGE CATALOG 2009-2011

Russian 2202 (H1 900)

- Earn no more than 16 credits in courses numbered 1800 or 2800, 1840 or 2840, 1820 to 1829, and 2820 to 2829, or labeled as independent study, experimental/pilot, selected topics or field/experiential.
- Earn no more than 12 credits with a satisfactory/fail grade option in courses counted toward elective credit.
- Earn General Education Core Curriculum course credit with letter grades, not satisfactory/fail grades.
- 12. Earn no more than 42 credits for the Communication, Physical and Life Sciences, Mathematics, Humanities and Fine Arts, and Social and Behavioral Sciences categories by demonstrated competence through the Advanced Placement Program (AP), designated course-specific subject examinations of the College Level Examination Program (CLEP), and the College of DuPage Proficiency Through an Instructor Program.
- Earn the remaining credits in courses that normally apply to a bachelor's degree as indicated in the transfer program guides.

Notes: For help in choosing additional coursework beyond the General Education Core to fulfill this degree, students should consult a faculty adviser from their area of interest for suggestions regarding course selection from the range of offerings in a specific field of study.

There is no guarantee that elective or occupational/ vocational courses will transfer as specific course equivalents to a baccalaureate-granting institution or other colleges.

For the student who chooses to use 10 credits of occupational/vocational courses toward an A.A. degree, the transferability of these courses needs to be validated with a transfer institution.

Degree-seeking students should complete the General Education Core Curriculum and required sequence courses before transfer to another participating IAI institution to guarantee the completion of lower division general education coursework.

Associate in Science Degree

Degree Requirements

(Total Minimum Credits Required: 64) (A complete list of General Education Core Curriculum transfer courses is available at the Illinois Articulation Initiative web site: www.itransfer.org).

Each candidate for an Associate in Science (A.S.) degree shall:

- 1. Select courses to complete the required credits from:
 - a. general education core requirement courses,
 - coursework in the Human Relations and Global/ Multicultural Studies or Contemporary Life Skills categories,
 - additional mathematics and science requirements, and

d. elective courses

(See Notes at end of A.S. degree) to a minimum of 64 credits.

2. Satisfactorily complete a minimum of 37 credits in General Education Core Curriculum (Illinois Articulation Initiative course codes are listed in parentheses after each course or sequence) in the Communication, Physical and Life Sciences, Mathematics, Humanities and Fine Arts, and Social and Behavioral Sciences categories as specified below. (Note: Refer to p. 73 for a discussion of general education core requirements)

Life Sciences

Anatomy and Physiology 1500 (L1 904L), 1551 (L1 904L), 1571 (L1 904L) Biology 1100 (L1 900L), 1110 (L1 905L),1120 (No Lab) (L1 906), 1130 (L1 906L), 1151 (L1 900L) Botany 1310 (L1 901L) Microbiology 1420 (L1 903L)

Physical Sciences

Chemistry 1105 (P1 903L), 1211 (P1 902L), 1551 (P1 902L)

Earth Science 1101 (P1 907L), 1102 (P1 907L), 1110 (P1 905L), 1111 (No Lab) (P1 905),

1115 (P1 905L), 1122 (P1 906L), 1124 (P1 906L), 1126 (P1 906L), 1130 (P1 905L), 1135 (P1 905L), 1140 (P1 905L)

Physics 1100 (P1 900L), 1201 (P1 900L), 2111 (P2 900L)

Mathematics 1218 (M1 904), 1220 (M1 901), 1322 (M1 903), 1533 (M1 906), 1635 (M1 902)*, 2115 (M1 905), 2134 (M1 900-B), 2231 (M1 900-1), 2232 (M1 900-2), 2233 (M1 900-3),

Psychology 2280 (M1 902)* Sociology 2205 (M1 902)*

- * Only one from these three courses may count toward overall degree requirement credit.

Humanities

Chinese 2202 (H1 900)

English 1130 (H3 900), 1150 (H3 901), 1151 (H3 901), 1152 (H3 903), 1153 (H3 902), 1158 (H5 901), 1159 (H9 901), 1160 (H3 910D), 1161 (H3 910D),

1165 (H3 911D), 2220 (H3 912), 2221 (H3 913), 2223 (H3 914), 2224 (H3 915), 2226 (H3 907), 2227 (H3 907), 2228 (H3 905)

French 2202 (H1 900), 2251 (H1 900), 2252 (H1 900) German 2200 (H3 909), 2202 (H1 900), 2251 (H1 900), 2252 (H1 900)

History 1110 (H2 901), 1120 (H2 902), 2205 (H2 903N), 2220 (H2 903N), 2225 (H2 908), 2230 (H2 908), 2235 (H2 903N)

Humanities 1102 (H9 900), 1105 (HF 904N)*, 1110 (HF 906D)*

Italian 2202 (H1 900)

Japanese 2202 (H1 900)

Korean 2202 (H1 900)

Philosophy 1100 (H4 900), 1110 (H4 904),

1116 (H4 904), 1117 (H4 901), 1118 (H4 902),

1120 (H4 906), 1125 (H4 906), 1145 (H4 905), 1150 (H5 904N)

Religious Studies 1100 (H5 900), 1110 (H5 901), 1120 (H5 901), 1150 (H5 904N), 1155 (H4 903N), 2160 (H5 901)

Russian 2202 (H1 900)

Spanish 2202 (H1 900), 2206 (H1 900), 2208 (H1 900), 2251 (H1 900), 2252 (H1 900)

Fine Arts

Art 1100 (F2 900), 2211 (F2 901), 2212 (F2 902), 2213 (F2 902), 2214 (F2 903N)

English 1135 (F2 908), 1154 (HF 908)*

Humanities 1101 (F9 900), 1105 (HF 904N)*, 1110 (HF 906D)*

Music 1100 (F1 900), 1104 (F1 904), 1115 (F1 903N) Theater 1100 (F1 907)

*Interdisciplinary credit (HF) may be earned as either Fine Arts or Humanities.

i. Social and Behavioral Sciences..................9 credits Courses must be selected from at least two disciplines. (Choose only one course from the list of same IAI codes for general education credit. Additional courses with the same IAI code will count as elective credit toward the degree.)

Anthropology 1100 (S1 901N), 1101 (S1 900N), 1105 (S1 904D), 1120 (S1 903), 1125 (S1 902), 1130 (S1 904D)

Economics 2200 (S3 900), 2201 (S3 901), 2202 (S3 902)

Geography 1100 (S4 901), 1105 (S4 902N), 1120 (S4 903N), 1130 (S4 900N), 1140 (S4 901)

History 1130 (S2 900), 1140 (S2 901), 2210 (S2 907N), 2215 (S2 916N), 2260 (S2 901)

Political Science 1100 (S5 903), 1101 (S5 900), 2203 (S5 905), 2220 (S5 904N)

Psychology 1100 (S6 900), 2230 (S6 903), 2233 (S6 904), 2235 (S6 905), 2237 (S6 902), 2240 (S8 900)

Sociology 1100 (S7 900), 1120 (S7 904D), 2210 (S7 901), 2215 (S7 903D), 2220 (S7 902)

- 3. Fulfill these requirements in the categories specified
 - a. Complete at least one course from the Human Relations category. Refer to p. 75 for a list.

- b. Complete at least one course from the Global/Multicultural Studies or Contemporary Life Skills category. Refer to p. 75 for a list.
- 4. Additional Mathematics and Science Requirements Select at least two courses from Physical and Life Sciences, and at least one course from Mathematics.

a. Physical and Life Sciences

Select at least two courses with a minimum total of 6 credits.

Anatomy and Physiology 1552, 1572 Biology 1130 (L1906L), 1140, 1152, 2150 Botany 1320, 2350, 2360 Chemistry 1137, 1212, 1552, 2552 Earth Science 1101*, 1102*, 1110*, 1111*, 1115*, 1116, 1117, 1122*, 1124*, 1126*, 1130*, 1135*, 1140*, 2102, 2103, 2110, 2115, 2116, 2117 Physics 1202, 2111*, 2112, 2115

b. Mathematics

Select at least one course with a minimum total of 3 credits.

Mathematics 1218,* 1220*, 1321, 1322*, 1340, 1428, 1431, 1432, 1533*, 1635*, 2115*, 2134*, 2231*, 2332*, 2233*, 2245, 2270, 2300

(*Courses also meet general education requirements. If any of these courses is chosen to fulfill requirements for the General Education Core Curriculum, choose others to meet the Additional Mathematics and Science Requirements.)

Select courses to complete the required 64 credits from General Education Core Curriculum courses, elective courses (refer to p. 75), and up to 10 credits in occupational/vocational courses.

- 5. Satisfy graduation requirements for all associate's degrees (refer to p. 61).
- 6. Earn no more than 6 credits in History in the Humanities and Fine Arts, and Social and Behavioral Sciences categories combined for general education credit. Additional credits in History from general education or other categories may be earned as elective credit, unless restricted by degree requirements.
- 7. Earn no more than four credits in Physical Education activity courses.
- 8. Only one of the following courses may count toward the degree: Mathematics 1428 or Mathematics 1431.
- 9. Complete a minimum of two courses up to 10 credits in Physical and Life Sciences from the additional mathematics/science requirements category.
- 10. Complete a minimum of one course up to five credits in Mathematics from the Additional Mathematics and Science Requirements category.
- 11. Earn no more than 16 credits in courses numbered 1800 or 2800, 1840 or 2840, 1820 to 1829, and 2820 to 2829, or labeled as independent study. experimental/pilot, selected topics or field/experiential.
- 12. Earn no more than 12 credits with a satisfactory/fail grade option in courses counted toward elective credit.
- Earn General Education Core Curriculum course credit with letter grades, not satisfactory/fail grades.

- 14. Earn no more than 42 credits for the Communication, Physical and Life Sciences, Mathematics, Humanities and Fine Arts, and Social and Behavioral Sciences categories by demonstrated competence through the Advanced Placement Program (AP), designated course-specific subject examinations of the College Level Examination Program (CLEP), and the College of DuPage Proficiency Through an Instructor Program.
- 15. Earn the remaining credits in courses that normally apply to a bachelor's degree as indicated in the transfer program guides.

Notes: For help in choosing additional coursework beyond the General Education Core to fulfill this degree, students should consult a faculty adviser from their area of interest for suggestions regarding course selection from the range of offerings in a specific field of study.

There is no guarantee that elective or occupational/vocational courses will transfer as specific course equivalents to a baccalaureate-granting institution or other colleges.

For the student who chooses to use 10 credits of occupational/vocational courses toward an A.S. degree, the transferability of these courses needs to be validated with a transfer institution.

Degree-seeking students should complete the General Education Core Curriculum and required sequence courses before transfer to another participating IAI institution to guarantee the completion of lower division general education coursework.

Associate in Engineering Science Degree

Degree Requirements

(Total Minimum Credits Required: 68)

(A complete list of Engineering course recommendations and requirements is available at www.itransfer.org/IAI/ Majors/EGR. Students also should check with an Engineering adviser at College of DuPage.)

Each candidate for an Associate in Engineering Science (A.E.S.) degree shall:

- 1. Select courses to complete the required credits from:
 - a. general education core requirement courses.
 - b. essential prerequisite courses,
 - c. engineering specialty courses, and
 - d. elective courses.

to a minimum of 68 credits.

- 2. General Education Core Courses9 to 18 credits. (Refer to p. 73 for a discussion of general education core requirements)
 - a. Communication6 credits Written (6 credits) English 1101 (C1 900) and 1102 (C1 901R) (Grade of "C" or higher required in both courses)
 - b. Humanities and Fine Arts 0 to 9 credits (Choose courses with different IAI codes.) Humanities Chinese 2202 (H1 900)

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English 1130 (H3 900), 1150 (H3 901), 1151 (H3 901),
    1152 (H3 903), 1153 (H3 902), 1158 (H5 901),
    1159 (H9 901), 1160 (H3 910D), 1161 (H3 910D),
    1165 (H3 911D), 2220 (H3 912), 2221 (H3 913),
    2223 (H3 914), 2224 (H3 915), 2226 (H3 907),
    2227 (H3 907), 2228 (H3 905)
  French 2202 (H1 900), 2251 (H1 900), 2252 (H1 900),
  German 2200 (H3 909), 2202 (H1 900),
    2251 (H1 900), 2252 (H1 900),
  History 1110 (H2 901), 1120 (H2 902), 2205 (H2 903N),
    2220 (H2 903N), 2225 (H2 908), 2230 (H2 908),
    2235 (H2 903N),
  Humanities 1102 (H9 900), 1105 (HF 904N)*,
    1110 (HF 906D)*
  Italian 2202 (H1 900)
  Japanese 2202 (H1 900)
  Korean 2202 (H1 900)
  Philosophy 1100 (H4 900), 1110 (H4 904),
    1116 (H4 904), 1117 (H4 901), 1118 (H4 902),
    1120 (H4 906), 1125 (H4 906), 1145 (H4 905),
    1150 (H5 904N)
  Religious Studies 1100 (H5 900), 1110 (H5 901),
    1120 (H5 901), 1150 (H5 904N), 1155 (H4 903N),
    2160 (H5 901)
  Russian 2202 (H1 900)
  Spanish 2202 (H1 900), 2206 (H1 900), 2208 (H1 900),
    2251 (H1 900), 2252 (H1 900)
  Art 1100 (F2 900), 2211 (F2 901), 2212 (F2 902),
    2213 (F2 902), 2214 (F2 903N)
  English 1135 (F2 908), 1154 (HF 908)*
  Humanities 1101 (F9 900), 1105 (HF 904N)*,
    1110 (HF 906D)*
  Music 1100 (F1 900), 1104 (F1 904), 1115 (F1 903N)
  Theater 1100 (F1 907)
   *Interdisciplinary credit may be earned as either Fine
    Arts or Humanities.
c. Social and Behavioral Sciences .........0 to 9 credits
   (Choose courses with different IAI codes.)
  Anthropology 1100 (S1 901N), 1101 (S1 900N),
    1105 (S1 904D), 1120 (S1 903), 1125 (S1 902),
    1130 (S1 904D)
  Economics 2200 (S3 900), 2201 (S3 901), 2202 (S3 902)
  Geography 1100 (S4 901), 1105 (S4 902N),
     1120 (S4 903N), 1130 (S4 900N), 1140 (S4 901)
  History 1130 (S2 900), 1140 (S2 901),
    2210 (S2 907N), 2215 (S2 916N), 2260 (S2 901)
  Political Science 1100 (S5 903), 1101 (S5 900),
    2203 (S5 905), 2220 (S5 904N)
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- Psychology 1100 (S6 900), 2230 (S6 903), 2233 (S6 904), 2235 (S6 905), 2237 (S6 902), 2240 (S8 900) Sociology 1100 (S7 900), 1120 (S7 904D), 2210 (S7 901), 2215 (S7 903D), 2220 (S7 902)
- 3. Essential Prerequisite Courses36 to 40 credits a. Mathematics18 credits 2231 (EGR 901), 2232 (EGR 902), 2233 (EGR 903), 2270 (EGR 904) b. Chemistry......5 credits 1551 (EGR 961) c. Physics......10 credits

2111 (EGR 911) and 2112 (EGR 912)

- d. Optional: Physics 2115 (EGR 914)......0 or 4 credits
- e. Computer Information Systems......3 credits 2480 (EGR 921) or 2485 (EGR 922)
- 4. Engineering Specialty Courses8 to 23 credits

Engineering

Choose from 1101 (EGR 941), 2201 (EGR 942), 2202 (EGR 943), 2203 (EGR 945), 2205 (EGR 946), 2210 (EGR 931L), 2213 (EGR 932L)

Other Sciences

Biology 1151 (BIO 912) Chemistry 1552 (EGR 962), 2551 (EGR 963), 2552 (EGR 964)

- Select remaining elective courses from IAI General Education, Essential Prerequisite Courses and Engineering Speciality Courses to 68 credits.
- Satisfy graduation requirements for all associate's degrees (refer to p. 61).
- 7. Earn no credit with a satisfactory/fail grade option.
- Earn no more than 42 credits for the Communication, Physical and Life Sciences, Mathematics, Humanities and Fine Arts, and Social and Behavioral Sciences categories by demonstrated competence through the Advanced Placement Program (AP), designated course-specific subject examinations of the College Level Examination Program (CLEP), and the College of DuPage Proficiency Through an Instructor Program.

Notes: Courses listed under Essential Prerequisite Courses and Engineering Specialty Courses, as well as the A.E.S. degree, will transfer from C.O.D. based on criteria set by each baccalaureate-granting institution. Check with an Engineering adviser both at College of DuPage and your transfer institution.

See an Engineering adviser for the appropriate choices in Humanities, Social and Behavioral Sciences, and Fine Arts for transfer to your chosen program.

Students should complete entire course sequences in calculus and physics at the same school before transfer, since topics are covered in different orders by different schools.

Biology may be required for Bio-Engineering majors. See an Engineering adviser for help in choosing the correct biology course.

Associate in Applied Science Degree

Degree Requirements

(Total Minimum Credits Required: 64)

Each candidate for an Associate in Applied Science (A.A.S.) degree shall:

- 1. Select courses to complete the required credits from:
 - a. general education core requirement courses,
 - coursework in the Global/Multicultural Studies or Contemporary Life Skills category,
 - c. specific program occupational/vocational required courses, and
 - d. elective courses.

- to a minimum of 64 credits, but due to external licensure and certification, programs may require more than 64 credits. A list of Applied Science degree options can be found in the Associates of Applied Science section of the *Catalog*.
- Satisfactorily complete a minimum of 18 credits in general education courses as specified below. (Refer to p. 73 for a discussion of general education core requirements)
 - a. Communication6 credits
 Written (3 credits) English 1101 or 1105
 Oral (3 credits) Speech 1100, 1120 or 1150
 - b. Physical and Life Sciences.....3 to 5 credits

Select at least one course with a laboratory component.

- j. Humanities and Fine Arts3 credits Refer to p. 75 for a list of specific areas in this category.
- k. **Social and Behavioral Sciences**.....3 credits Refer to p. 75 for a list of specific areas in this category.
- Complete at least 2 credits from the list of courses in the Global/Multicultural Studies or Contemporary Life Skills category. Refer to p. 75 for lists.
- 4. Select a specific occupational/vocational program and complete the required courses and the minimum number of occupational/vocational credit hours as specified by College of DuPage. The mimimum number of occupational/vocational credits required for an AAS degree varies with each program, but must total at least 20 credits.
- Satisfy graduation requirements for all associate's degrees (refer to p. 61).
- Earn no more than 16 credits in courses numbered 1800 or 2800, 1840 or 2840, 1820 to 1829, and 2820 to 2829, or labeled as independent study, experimental/ pilot, selected topics or field/experiential.
- Earn no more than 4 credits in Physical Education activity courses.
- Earn no more than 12 credits with a satisfactory/fail grade option.
- Earn no more than 42 credits for the Communication, Physical and Life Sciences, Mathematics, Humanities and Fine Arts, and Social and Behavioral Sciences categories by demonstrated competence through the Advanced Placement Program (AP), designated course-specific subject examinations of the College Level Examination Program (CLEP), and the College of DuPage Proficiency Through an Instructor Program.

Associate in Fine Arts — Art

Degree Requirements

(Total Minimum Credits Required: 67)

Each candidate for an Associate in Fine Arts — Art degree shall:

- 1. Select courses to complete the required credits from:
 - a. general education core requirement courses,
 - b. coursework in the Human Relations and Global/ Multicultural Studies or Contemporary Life Skills categories, and
 - c. specific program required courses and studio electives

to a minimum of 67 credits.

- 2. Satisfactorily complete a minimum of 31 credits in general education courses as specified below. (Note: Refer to p. 73 for a discussion of general education core requirements)
 - a. Communication9 credits Written (6 credits) English 1101 (C1 900), 1102 (C1 901R) (Grade of "C" or higher required in both courses.) Oral (3 credits) Speech 1100 (C2 900) (Grade of "C" or higher required.)
 - b. Physical and Life Sciences8 to 10 credits Select one course from Life Sciences and one course from Physical Sciences. (Choose only one course from the list of same IAI codes for general education credit. Additional courses with the same IAI code will count as elective credit toward the degree.)

At least one course must have a laboratory component. Students with sufficient preparation may select from IAI science majors courses. Check with www.itransfer.org. A minimum of eight credits must be selected from the following list:

Life Sciences

Anatomy and Physiology 1500 (L1 904L), 1551 (L1 904L), 1571 (L1 904L) Biology 1100 (L1 900L), 1110 (L1 905L), 1120 (No Lab) (L1 906), 1130 (L1 906L), 1151 (L1 900L) Botany 1310 (L1 901L) Microbiology 1420 (L1 903L)

Physical Sciences

Chemistry 1105 (P1 903L), 1211 (P1 902L), 1551 (P1 902L)

Earth Science 1101 (P1 907L), 1110 (P1 905L), 1111 (No Lab) (P1 905), 1115 (P1 905L), 1122 (P1 906L), 1124 (P1 906L), 1126 (P1 906L), 1130 (P1 905L), 1135 (P1 905L), 1140 (P1 905L)

Physics 1100 (P1 900L), 1201 (P1 900L), 2111 (P2 900L)

Mathematics 1218 (M1 904), 1220 (M1 901), 1533 (M1 906), 1635 (M1 902)*, 2115 (M1 905), 2134 (M1 900-B), 2231 (M1 900-1), 2232 (M1 900-2), 2233 (M1 900-3) Psychology 2280 (M1 902)* Sociology 2205 (M1 902)*

(*Only one from these three courses may count toward overall degree requirement credit. Mathematics 1322 may not be used to meet this requirement.)

d. Humanities and Fine Arts6 credits (Select at least one course from Humanities and at least one course from Fine Arts with different IAI codes.)

Humanities

Chinese 2202 (H1 900)

English 1130 (H3 900), 1150 (H3 901),

1151 (H3 901), 1152 (H3 903), 1153 (H3 902),

1158 (H5 901), 1159 (H9 901), 1160 (H3 910D),

1161 (H3 910D), 1165 (H3 911D), 2220 (H3 912), 2221 (H3 913), 2223 (H3 914), 2224 (H3 915),

2226 (H3 907), 2227 (H3 907), 2228 (H3 905)

French 2202 (H1 900), 2251 (H1 900), 2252 (H1 900)

German 2200 (H3 909), 2202 (H1 900),

2251 (H1 900), 2252 (H1 900)

History 1110 (H2 901), 1120 (H2 902),

2205 (H2 903N), 2220 (H2 903N), 2225 (H2 908),

2230 (H2 908), 2235 (H2 903N)

Humanities 1102 (H9 900), 1105 (HF 904N)*,

1110 (HF 906D) *

Italian 2202 (H1 900)

Japanese 2202 (H1 900)

Korean 2202 (H1 900)

Philosophy 1100 (H4 900), 1110 (H4 904),

1116 (H4 904), 1117 (H4 901), 1118 (H4 902),

1120 (H4 906), 1125 (H4 906), 1145 (H4 905),

1150 (H5 904N)

Religious Studies 1100 (H5 900), 1110 (H5 901),

1120 (H5 901), 1150 (H5 904N), 1155 (H4 903N), 2160 (H5 901)

Russian 2202 (H1 900)

Spanish 2202 (H1 900), 2206 (H1 900), 2208 (H1 900), 2251 (H1 900), 2252 (H1 900)

Art 2214 (F2 903N) (Recommended)

English 1135 (F2 908), 1154 (HF 908)*

Humanities 1101 (F9 900), 1105 (HF 904N)*,

1110 (HF 906D)*

Music 1100 (F1 900), 1104 (F1 904), 1115 (F1 903N)

Theater 1100 (F1 907)

*Interdisciplinary credit may be earned as either Fine Arts or Humanities

e. Social and Behavioral Sciences.....6 credits

(Choose courses with different IAI codes from two different subjects.)

Anthropology 1100 (S1 901N), 1101 (S1 900N), 1105 (S1 904D), 1120 (S1 903), 1125 (S1 902), 1130 (S1 904D)

Economics 2200 (S3 900), 2201 (S3 901), 2202 (S3 902)

Geography 1100 (S4 901), 1105 (S4 902N), 1120 (S4 903N), 1130 (S4 900N)

History 1130 (S2 900), 1140 (S2 901),

2210 (S2 907N), 2215 (S2 916N), 2260 (S2 901)

Political Science 1100 (S5 903), 1101 (S5 900),

2203 (S5 905), 2220 (S5 904N)

Psychology 1100 (S6 900), 2230 (S6 903), 2233 (S6 904), 2235 (S6 905), 2237 (S6 902), 2240 (S8 900)

Sociology 1100 (S7 900), 1120 (S7 904D), 2210 (S7 901), 2215 (S7 903D), 2220 (S7 902)

- 3. a. Complete at least one course from the Human Relations category. Refer to p. 75 for a list.
 - b. Complete at least one course from the Global/ Multicultural Studies or Contemporary Life Skills category. Art 2214 meets the Global/Multicultural Studies requirement and is required for Art majors.
- 4. Satisfactorily complete a minimum of 36 credits in Art requirements as specified below:

2241 and 2242;

2231 and 2232;

2275 and 2276:

2251 and 2252;

2266 and 2267

Graphic Design 1107 and 1108 Photo 1100 and 1102

- 5. Complete all requirements for all associate's degrees, including the A.F.A., with a minimum of 67 credits.
- Earn no more than 6 credits in History in the Humanities and Fine Arts, and Social and Behavioral Sciences categories combined for general education credit.
- 7. Earn no credit with a satisfactory/fail grade option.
- Earn no more than 42 credits for the Communication, Physical and Life Sciences, Mathematics, Humanities and Fine Arts, and Social and Behavioral Sciences categories by demonstrated competence through the Advanced Placement Program (AP), designated course-specific subject examinations of the College Level Examination Program (CLEP), and the College of DuPage Proficiency Through an Instructor Program.

Notes: Although designed to meet transfer requirements, the AFA degree does not complete the requirements of the Illinois Articulation Initiative (IAI) General Education Core Curriculum for lower division general education requirements at participating schools.

Students will need to fulfill the General Education requirements of the school to which they transfer. Transfer admission is competitive. Completion of the A.F.A. does not guarantee admission either to a baccalaureate program or to upper division art courses. Students may be required to demonstrate their skill level through audit, placement test or portfolio review. Most schools require a portfolio review for admission to a bachelor in fine arts program, for registration in a second studio course in a medium, and/or for scholarship consideration. Students are encouraged to complete the A.F.A. degree prior to transferring.

Associate in Fine Arts Degree — Music

Degree Requirements

(Total Minimum Credits Required: 64)

Each candidate for an Associate in Fine Arts — Music degree shall:

- 1. Select courses to complete the required credits from:
 - a. general education core requirement courses,
 - coursework in the Human Relations and Global/Multicultural Studies or Contemporary Life Skills categories, and
 - c. specific program required courses

to a minimum of 64 credits.

- Satisfactorily complete a minimum of 29 credits in General Education Core Curriculum (Illinois Articulation Initiative course codes are listed in parentheses after each course or sequence) in the Communication, Physical and Life Sciences, Mathematics, Humanities and Fine Arts, and Social and Behavioral Sciences categories as specified below. (Note: Refer to p. 73 for a discussion of general education core requirements)

 - b. Physical and Life Sciences8 to 10 credits

Select one course from Life Sciences and one course from Physical Sciences. (Choose only one course from the list of same IAI codes for general education credit. Additional courses with the same IAI code will count as elective credit toward the degree.)

At least one course must have a laboratory component. Students with sufficient preparation may select from IAI science majors courses. Check with www.itransfer.org. A minimum of eight credits must be selected from the following list:

Life Sciences

Anatomy and Physiology 1500 (L1 904L), 1551 (L1 904L), 1571 (L1 904L)

Biology 1100 (L1 900L), 1110 (L1 905L), 1120 (No Lab) (L1 906), 1130 (L1 906L), 1151 (L1 900L)

Botany 1310 (L1 901L)

Microbiology 1420 (L1 903L)

Physical Sciences

Chemistry 1105 (P1 903L), 1211 (P1 902L), 1551 (P1 902L)

Earth Science 1101 (P1 907L), 1110 (P1 905L), 1111 (No Lab) (P1 905), 1115 (P1 905L).

1122 (P1 906L), 1124 (P1 906L), 1126 (P1 906L), 1130 (P1 905L), 1135 (P1 905L), 1140 (P1 905L)

Physics 1100 (P1 900L), 1201 (P1 900L),

2111 (P2 900L)

Psychology 2280 (M1 902)* Sociology 2205 (M1 902)* (*Only one from these three courses may count toward overall degree requirement credit. Mathematics 1322 may not be used to meet this requirement.)

d. Humanities and Fine Arts6 credits (Select at least one course from Humanities and at least one course from Fine Arts with different IAI codes.)

Humanities

Chinese 2202 (H1 900)

English 1130 (H3 900), 1150 (H3 901),

1151 (H3 901), 1152 (H3 903), 1153 (H3 902),

1158 (H5 901), 1159 (H9 901), 1160 (H3 910D),

1161 (H3 910D), 1165 (H3 911D), 2220 (H3 912),

2221 (H3 913), 2223 (H3 914), 2224 (H3 915),

2226 (H3 907), 2227 (H3 907), 2228 (H3 905)

French 2202 (H1 900), 2251 (H1 900), 2252 (H1 900) German 2200 (H3 909), 2202 (H1 900), 2251 (H1 900),

2252 (H1 900)

History 1110 (H2 901), 1120 (H2 902).

2205 (H2 903N), 2220 (H2 903N), 2225 (H2 908),

2230 (H2 908), 2235 (H2 903N)

Humanities 1102 (H9 900), 1105 (HF 904N)*,

1110 (HF 906D)*

Italian 2202 (H1 900)

Japanese 2202 (H1 900)

Korean 2202 (H1 900)

Philosophy 1100 (H4 900), 1110 (H4 904),

1116 (H4 904), 1117 (H4 901), 1118 (H4 902),

1120 (H4 906), 1125 (H4 906), 1145 (H4 905),

1150 (H5 904N),

Religious Studies 1100 (H5 900), 1110 (H5 901), 1120 (H5 901), 1150 (H5 904N), 1155 (H4 903N),

2160 (H5 901)

Russian 2202 (H1 900)

Spanish 2202 (H1 900), 2206 (H1 900), 2208 (H1

900), 2251 (H1 900), 2252 (H1 900)

Fine Arts

Art 1100 (F2 900), 2211 (F2 901), 2212 (F2 902), 2213 (F2 902),2214 (F2 903N)

English 1135 (F2 908), 1154 (HF 908)*

Humanities 1101 (F9 900), 1105 (HF 904N)*,

1110 (HF 906D)*

Theater 1100 (F1 907)

*Interdisciplinary credit may be earned as either Fine Arts or Humanities. No Music courses may fulfill this requirement.

e. Social and Behavioral Sciences.....3 credits

Anthropology 1100 (S1 901N), 1101 (S1 900N),

1105 (S1 904D), 1120 (S1 903), 1125 (S1 902),

1130 (S1 904D)

Economics 2200 (S3 900), 2201 (S3 901),

2202 (S3 902)

Geography 1100 (S4 901), 1105 (S4 902N),

1120 (S4 903N), 1130 (S4 900N)

History 1130 (S2 900), 1140 (S2 901),

2210 (S2 907N), 2215 (S2 916N), 2260 (S2 901)

Political Science 1100 (S5 903), 1101 (S5 900),

2203 (S5 905), 2220 (S5 904N)

Psychology 1100 (S6 900), 2230 (S6 903),

 $2233 \; (S6\; 904), \, 2235 \; (S6\; 905), \, 2237 \; (S6\; 902), \,$

2240 (S8 900)

Sociology 1100 (S7 900), 1120 (S7 904D),

2210 (S7 901), 2215 (S7 903D), 2220 (S7 902)

- a. Complete one course from the Human Relations category Refer to p. 75 for a list.
 - b. Complete one course from the Contemporary Life Skills or Global/Multicultural Studies category. Refer to p. 75 for lists.
- Satisfactorily complete a minimum of 35 credits in Music requirements as specified below:

 - b. Music Literature/History Course.....3 credits
 Music 1105
 - c. **Music Ensemble Courses**......4 credits Music 1120, 1125, 1130, 1140, 1141, 1150, 1153, 1180, 1181, 1190, 1191, 1192, 1193
 - d. Applied Instruction Courses8 credits
 Music 1185 (Private music lessons I to IV. Take one course each term for a total of 8 credits.)
- 5. Complete all requirements for all associate's degrees, including a minimum of 64 credits for the A.F.A.
- 6. Earn no more than 6 credits in History in the Humanities and Fine Arts, and Social and Behavioral Sciences categories combined for general education credit. Additional credits in History from general education or other categories may be earned as elective credit.
- 7. Earn no credit with a satisfactory/fail grade option.
- 8. Earn no more than 42 credits for the Communication, Physical and Life Sciences, Mathematics, Humanities and Fine Arts, and Social and Behavioral Sciences categories by demonstrated competence through the Advanced Placement Program (AP), designated course-specific subject examinations of the College Level Examination Program (CLEP), and the College of DuPage Proficiency Through an Instructor Program.
- Show keyboard competence through one of the following options: Complete either Music 2272, complete four semesters of Music 1185 on piano, or show keyboard proficiency by demonstrated competence through the College of DuPage Proficiency Through an Instructor Program. See a Music adviser for further information.

Notes: Although designed to meet transfer requirements, the A.F.A. degree does not complete the requirements of the Illinois Articulation Initiative (IAI) General Education Core Curriculum for lower division general education requirements at participating schools.

Students will need to fulfill the General Education requirements of the school to which they transfer. Completion of the A.F.A. does not guarantee admission either to a baccalaureate program or to upper division music courses. Students may be required to demonstrate their skill level through audit, placement test, audition or review of student recordings. Students are encouraged to complete the A.F.A. degree prior to transferring.

Associate in General Studies Degree

Degree Requirements

(Total Minimum Credits Required: 64)

Each candidate for the Associate in General Studies (AGS) degree shall:

- 1. Select courses to complete the required credits from:
 - a. general education core requirement courses.
 - b. coursework in the Global/Multicultural or Contemporary Life Skills category,
 - c. occupational/vocational courses, and
 - d. elective courses.

to a minimum of 64 credits.

- Satisfactorily complete a minimum of 27 credits in general education courses as specified below. Note: Refer to p. 73 for a discussion on general education core requirements

 - Physical and Life Sciences.....3 to 5 credits Select at least one course with a laboratory component.

 - d. **Humanities and Fine Arts**6 credits Select courses from at least two subject areas.
 - e. **Social and Behavioral Sciences**......................6 credits Select courses from at least two subject areas.

Refer to p. 75 for a list of specific subject areas listed in the general education categories above.

Complete at least two credits from the Global/ Multicultural Studies or Contemporary Life Skills category. Refer to p. 75 for lists.

- Select courses to complete the required minimum of 64 credits from general education courses, elective courses and occupational/vocational courses to a maximum of 37 credits.
- 5. Satisfy graduation degree requirements for all associate's degrees (refer to p. 61).
- Earn no more than 42 credits for the Communication, Physical and Life Sciences, Mathematics, Humanities and Fine Arts, and Social and Behavioral Sciences categories by demonstrated competence through the Advanced Placement Program (AP), designated

- course-specific subject examinations of the College Level Examination Program (CLEP), and the College of DuPage Proficiency Through an Instructor Program.
- Earn no more than 16 credits in courses numbered 1800 or 2800, 1840 or 2840, 1820 to 1829, and 2820 to 2829, or labeled as independent study, experimental/pilot, selected topics or field/experiential.
- 8. Earn no more than 4 credits in Physical Education activity courses.
- Earn no more than 12 credits with a satisfactory/fail grade option.
- 10. Earn no more than 6 credits History from the Humanities and Fine Arts, and the Social and Behavioral Science categories combined. Additional credits in History may be earned as elective credit.

Associate in Arts in Teaching Secondary Mathematics Degree

Degree Requirements

(Total Minimum Credits Required: 64)

Each candidate for an Associate in Arts (A.A.) degree shall:

- 1. Select courses to complete the required credits from:
 - a. general education core requirement courses one of these courses must have the IAI program suffix N or D to fulfill state requirements for a global diversity and multiculturalism-related course as part of an education degree program.
 - coursework in the Human Relations and Global/Multicultural Studies categories from courses which also fulfill the general education core requirements and Education 1100 to fulfill the Contemporary Life Skills requirement,
 - c. mathematics specialty courses,
 - d. education specialty courses and
 - e. elective courses

to a minimum of 64 credits.

- 2. Satisfactorily complete a minimum of 40 credits in General Education Core Curriculum (Illinois Articulation Initiative course codes are listed in parentheses after each course or sequence) in the Communication, Physical and Life Sciences, Mathematics, Humanities and Fine Arts, and Social and Behavioral Sciences categories as specified below. One of these courses must have the IAI program suffix N or D to fulfill state requirements for a global diversity and multiculturalismrelated course as part of an education degree program. (Note: Refer to p. 73 for a discussion of general education core requirements)

 - b. **Physical and Life Sciences**8 to 10 credits Select one course from Life Sciences and one course

from Physical Sciences. (Choose only one course from the list of same IAI codes for general education credit. Additional courses with the same IAI code will count as elective credit toward your degree.) At least one course must have a laboratory component.

Life Sciences

Anatomy and Physiology 1500 (L1 904L), 1551 (L1 904L), 1571 (L1 904L) Biology 1100 (L1 900L), 1110 (L1 905L), 1120 (No Lab) (L1 906), 1151 (L1 900L) Botany 1310 (L1 901L) Microbiology 1420 (L1 903L)

Physical Sciences

Chemistry 1105 (P1 903L), 1211 (P1 902L), 1551 (P1 902L)

Earth Science 1101 (P1 907L), 1102 (P1 907L), 1110 (P1 905L), 1111 (No Lab) (P1 905), 1115 (P1 905L),1122 (P1 906L), 1124 (P1 906L), 1126 (P1 906L), 1130 (P1 905L), 1135 (P1 905L), 1140 (P1 905L)

Physics 1100 (P1 900L), 1201 (P1 900L), 2111 (P2 900L) (Recommended because of applied calculus content)

Humanities

Chinese 2202 (H1 900)

English 1130 (H3 900), 1150 (H3 901),

1151 (H3 901), 1152 (H3 903), 1153 (H3 902), 1158 (H5 901), 1159 (H9 901), 1160 (H3 910D), 1161 (H3 910D), 1165 (H3 911D), 2220 (H3 912),

2221 (H3 913), 2223 (H3 914), 2224 (H3 915),

2226 (H3 907), 2227 (H3 907), 2228 (H3 905)

French 2202 (H1 900), 2251 (H1 900), 2252 (H1 900) German 2200 (H3 909), 2202 (H1 900),

2251 (H1 900), 2252 (H1 900)

History 1110 (H2 901), 1120 (H2 902),

2205 (H2 903N), 2220 (H2 903N), 2225 (H2 908), 2230 (H2 908), 2235 (H2 903N)

Humanities 1102 (H9 900), 1105 (HF 904N)*,

1110 (HF 906D)*

Italian 2202 (H1 900)

Japanese 2202 (H1 900)

Korean 2202 (H1 900)

Philosophy 1100 (H4 900), 1110 (H4 904),

1116 (H4 904), 1117 (H4 901), 1118 (H4 902),

1120 (H4 906), 1125 (H4 906), 1145 (H4 905),

1150 (H5 904N)

Religious Studies 1100 (H5 900), 1110 (H5 901), 1120 (H5 901), 1150 (H5 904N), 1155 (H4 903N), 2160 (H5 901)

Russian 2202 (H1 900)

Spanish 2202 (H1 900), 2206 (H1 900),

2208 (H1 900), 2251 (H1 900), 2252 (H1 900)

Fine Arts

1110 (HF 906D)*

Art 1100 (F2 900), 2211 (F2 901), 2212 (F2 902), 2213 (F2 902), 2214 (F2 903N)

English 1135 (F2 908), 1154 (HF 908)* Humanities 1101 (F9 900), 1105 (HF 904N)*,

Music 1100 (F1 900), 1104 (F1 904), 1115 (F1 903N) Theater 1100 (F1 907)

*Interdisciplinary credit (HF) may be earned as either Fine Arts or Humanities.

Anthropology 1100 (S1 901N), 1101 (S1 900N), 1105 (S1 904D), 1120 (S1 903), 1125 (S1 902), 1130 (S1 904D)

Economics 2200 (S3 900), 2201 (S3 901), 2202 (S3 902)

Geography 1100 (S4 901), 1105 (S4 902N), 1120 (S4 903N), 1130 (S4 900N), 1140 (S4 901)

History 1130 (S2 900), 1140 (S2 901), 2210 (S2 907N), 2215 (S2 916N), 2260 (S2 901)

Political Science 1100 (S5 903), 1101 (S5 900), 2203 (S5 905), 2220 (S5 904N)

Psychology 1100 (\$6 900), 2230 (\$6 903), 2233 (\$6 904), 2235 (\$6 905), 2237 (\$6 902), 2240 (\$8 900)

Sociology 1100 (S7 900), 1120 (S7 904D), 2210 (S7 901), 2215 (S7 903D), 2220 (S7 902)

- Education Specialty Courses 9 credits
 Education 1100 Required. To complete the 9 credits, choose from Education 1150, 2201
 Psychology 2220, 2230, 2233 or 2237
- 5. Fulfill these requirements in the categories specified
- a. Complete at least one course from the Human Relations category which also fulfills General Education Core Requirements: Anthropology 1100 (S1 901N), 1101 (S1 900N), 1105 (S1 904D), 1130 (S1 904D) Art 1100 Humanities 1110 (HF 906D)

Philosophy 1110 (H4904), 1116 (H4 904), 1117 (H4 901), 1118 (H4 902)
Psychology 2235 (S6 905), 2240 (S8 900)

Sociology 1100 (S7 900), 1120 (S7 904D) 2215 (S7 903D)

b. Complete at least one course from the Global/Multicultural Studies category which also fulfills General Education Core Requirements. Anthropology 1100 (S1 901N), 1101 (S1 900N) 1105 (S1 904D), 1125 (S1 902), 1130 (S1 904D); Art 1100 (F2 900), 2214 (F2 903N) Chinese 2202 (H1 900) English 1160 (H3 910D), 2226 (H3 907), 2227 (H3 907)

French 2202 (H1 900), 2251 (H1 900), 2252 (H1 900);

Geography 1100 (S4 901), 1105 (S4 902N), 1120 (S4 903N) German 2200 (H1 900), 2202 (H1 900) History 2205 (H2 903N), 2210 (S2 907N), 2220 (H2 903N), 2225 (H2 908), 2230 (H2 908), 2235 (H2 903N) Humanities 1105 (HF 904N) Italian 2202 (H1 900) Japanese 2202 (H1 900) Korean 2202 (H1 900) Philosophy 1110 (H4 904), 1150 (H5 904N) Political Science 2203 (S5 905), 2220 (S5 904N) Religious Studies 1100 (H5 900), 1150 (H5 904N), 1155 (H4 903N) Russian 2202 (H1 900) Sociology 2210 (S7 901), 2220 (S7 902) Spanish 2202 (H1 900), 2251 (H1 900), 2252 (H1 900)

- c. Complete this course from the Contemporary Life Skills category which also fulfills Education Specialty Course Requirements: Education 1100.
- Select courses to complete the minimum required 64 credits from General Education Core Curriculum courses, elective courses (refer to p. 76), and occupatinal/vocational courses.
- Satisfy graduation requirements for all associate's degrees (refer to p. 61).
- 8. Earn no credit with a satisfactory/fail grade.
- 9. Earn no more than 42 credits for the Communication, Physical and Life Sciences, Mathematics, Humanities and Fine Arts, and Social and Behavioral Sciences categories by demonstrated competence through the Advanced Placement Program (AP), designated course-specific subject examinations of the College Level Examination Program (CLEP), and the College of DuPage Proficiency Through an Instructor Program. However, policies on acceptance of AP, CLEP, and Proficiency by Instructor credits vary among academic programs and from institution to institution. Be sure to consult Education and Mathematics advisers as to the trasferability of these credits to a specific baccalaureate—granting institution.

Notes: See Education and Mathematics advisers for the appropriate choices in Mathematics, Physical and Life Sciences, Humanities, Social and Behavioral Sciences, and Fine Arts for transfer to your chosen program.

Associate in Arts in Teaching Early Childhood Education Degree

Degree Requirements

(Total Minimum Credits Required: 64)

Each candidate for an Associate of Arts in Teaching Early Childhood Education (AAT) degree shall:

- 1. Select courses to complete the required credits from:
 - a. general education core requirement courses,
 - coursework in the Human Relations and Global/Multicultural Studies categories from courses which also fulfill the general education core requirements and Education 1100 to fulfill the Contemporary Life Skills requirement,

- c. professional education courses,
- d. early childhood education specialty courses and
- e. elective courses.

to a minimum of 64 credits.

- Satisfactorily complete a minimum of 40 credits in General Education Core Curriculum (Illinois Articulation Initiative course codes are listed in parentheses after each course or sequence) in the Communication, Physical and Life Sciences, Mathematics, Humanities and Fine Arts, and Social and Behavioral Sciences categories as specified below. (Note: Refer to p. 61 for a discussion of general education core requirements)

Life Sciences

Anatomy and Physiology 1500 (L1 904L), 1551 (L1 904L) Biology 1100 (L1 900L), 1110 (L1 905L), 1120 (No Lab) (L1 906), 1151 (L1 900L) Botany 1310 (L1 901L) Microbiology 1420 (L1 903L) **Physical Sciences** Chemistry 1105 (P1 903L), 1211 (P1 902L), 1551 (P1 902L) Earth Science 1101 (P1 907L), 1102 (P1 907L), 1110 (P1 905L), 1111 (No Lab) (IAI P1 905), 1115 (P1 905L), 1122 (P1 906L), 1124 (P1 906L), 1126 (P1 906L), 1130 (P1 905L), 1140 (P1 905L) Physics 1100 (P1 900L), 1201 (P1 900L), 2111 (P2 900L) (Recommended because of applied calculus content)

Humanities

Chinese 2202 (H1 900)
English 1130 (H3 900), 1150 (H3 901),
1151 (H3 901), 1152 (H3 903), 1153 (H3 902),
1158 (H5 901), 1159 (H9 901), 1160 (H3 910D),
1165 (H3 911D), 2220 (H3 912), 2221 (H3 913),
2223 (H3 914), 2224 (H3 915), 2226 (H3 907),
2227 (H3 907), 2228 (H3 905)
French 2202 (H1 900), 2251 (H1 900), 2252 (H1 900)
German 2200 (H3 909), 2202 (H1 900),
2251 (H1 900), 2252 (H1 900)

History 1110 (H2 901), 1120 (H2 902), 2205 (H2 903N), 2220 (H2 903N), 2235 (H2 903N) Humanities 1102 (H9 900), 1105 (HF 904N)*, 1110 (HF 906D)* Italian 2202 (H1 900) Japanese 2202 (H1 900) Korean 2202 (H1 900) Philosophy 1100 (H4 900), 1110 (H4 904), 1120 (H4 906), 1125 (H4 906), 1145 (H4 905), 1150 (H5 904N), 1170 (H4 901), 1175 (H4 902) Religious Studies 1100 (H5 900), 1110 (H5 901), 1120 (H5 901), 1150 (H5 904N), 1155 (H4 903N) Russian 2202 (H1 900) Spanish 2202 (H1 900), 2251 (H1 900), 2252 (H1 900)

Fine Arts Art 1100 (F2 900), 2211 (F2 901), 2212 (F2 902), 2213 (F2 902), 2214 (F2 903N) English 1135 (F2 908), 1154 (HF 908)* Humanities 1101 (F9 900), 1105 (HF 904N)*, 1110 (HF 906D)* Music 1100 (F1 900), 1104 (F1 904), 1115 (F1 903N) Theater 1100 (F1 907)

*Interdisciplinary credit may be earned as either Fine Arts or Humanities.

e. Social and Behavioral Sciences......9 credits Courses must be selected from at least two disciplines. (Choose only one course from the list of same IAI codes for general education credit. Additional courses with the same IAI code will count as elective credit toward the degree.) Anthropology 1100 (S1 901N), 1105 (S1 904D),

1120 (S1 903), 1125 (S1 902), 1130 (S1 904D) Economics 2201 (S3 901), 2202 (S3 902) Geography 1100 (S4 901), 1105 (S4 902N),

1120 (S4 903N), 1130 (S4 900N), 1140 (S4 901) History 1130 (S2 900), 1140 (S2 901), 2210 (S2 907N),

2215 (S2 916N), 2260 (S2 901) Political Science 1100 (S5 903), 1101 (S5 900), 2203 (S5 905), 2220 (S5 904N)

Psychology 1100: required if students want to take Psychology 2220 under ICCB Professional Education Requirements (S6 900), 2230 (S6 903), 2233 (S6 904), 2235 (S6 905), 2237 (S6 902), 2240 (S8 900)

Sociology 1100 (S7 900), 1120 (S7 904D), 2210 (S7 901), 2215 (S7 903D), 2220 (S7 902)

2. Professional Education Courses 6-9 credits

Required: Education 1100 (EDU 901); Early Childhood Education and Care 1101

May choose additional coursework from Education 1150 (EDU 904); 2201; Psychology 2220 (EDU 903)

Specialty Courses

Early Childhood Education and Care 1100, 1130, 1140, 2251, 2252

- 4. Fulfill these requirements in the categories specified
 - a. Complete at least one course from the Human Relations category which also fulfills General Education Core Requirements. (Anthropology 1100,

- 1105, 1139; Humanities 1110; Philosophy 1110; Psychology 2235, 2240; Sociology 1100, 2215)
- b. Complete at least one course from the Global/Multicultural Studies category which also fulfills General Education Core Requirements. (Anthropology 1100, 1105, 1125, 1130; Art 2214; Chinese 2202; English 1160, 2226, 2227; French 2202, 2251, 2252; Geography 1100, 1105, 1120; German 2200, 2202; History 2205, 2210, 2215, 2220, 2235; Humanities 1105; Italian 2202; Japanese 2202; Korean 2202; Philosophy 1150; Political Science 2203, 2220; Religious Studies 1100, 1150, 1155; Russian 2202; Sociology 2210, 2220, 2260; Spanish 2102, 2251, 2252)
- c. Complete this course from the Contemporary Life Skills category which also fulfills

Professional Education Course Requirement: Education 1100.

- 5. Select courses to complete the minimum required 64 credits from General Education Core Curriculum courses, elective courses (refer to p. 76), and occupational/vocational courses.
- 6. Satisfy graduation requirements for all associate's degrees (refer to p. 61).
- 7. Earn no credit with a satisfactory/fail grade option.
- 8. Earn no more than 42 credits for the Communication, Physical and Life Sciences, Mathematics, Humanities and Fine Arts, and Social and Behavioral Sciences categories by demonstrated competence through the Advanced Placement Program (AP), designated course-specific subject examinations of the College Level Examination Program (CLEP), and the College of DuPage Proficiency Through an Instructor Program. However, policies on acceptance of AP, CLEP, and Proficiency by Instructor credits vary among academic programs and from institution to institution. Be sure to consult Education and Mathematics advisers as to the trasferability of these credits to a specific baccalaureate-granting institution.
- 9. Successfully pass the Illonis Test of Enhanced Basic Skills
- 10. Maintain GPA of 2.5 or higher.
- 11. Develop a portfolio.
- 12. Earn no more that 6 History credits in Humanities and Social and Behavioral Sciences combined. Additional credits in History may be earned as General Elective credit.

Notes: See Early Childhood Education or general advisers for the appropriate choices in Mathematics, Physical and Life Sciences, Humanities, Social and Behavioral Sciences, and Fine Arts for transfer to your chosen program.

General Education

General education is defined and coordinated by the College of DuPage faculty through the Degree Requirements Committee, a subcommittee of the Faculty Senate. The committee is responsible for developing, monitoring and reviewing coherent degree requirements in accordance with standards set by Illinois Community College Board, Illinois Articulation Initiative and other agents in higher education.

The faculty of College of DuPage subscribe to the 1998 policy statement by the American Association of Community Colleges that all associate degree programs should include a full complement of general education requirements that define what constitutes an educated person. A strong foundation general education curriculum (that is, courses in the arts the humanities which include literature, history, philosophy, foreign languages mathematics the natural sciences, and the social sciences) includes courses that enable the student (1) to understand and appreciate culture, one's own and others, society, and nature (2) to develop personal values based on accepted ethics that lead to civic and social responsibility and (3) to attain necessary competencies in analysis, communication, qualitative and quantitative methods, synthesis, and teamwork for further growth as a productive member of society and to develop the individual's and the public's good.

To meet these aims of general education, some flexibility exists for each student to select courses. The requirements for each associate's degree determine specific choices in each category. General Education requirements for the Associate in Arts, Associate in Science, Associate in Engineering Science, and Associate in Fine Arts degrees are in compliance with the Illinois Articulation Initiative standards.

Communication

Communication includes studies in English and Speech. These disciplines provide an educational framework within which students may develop their abilities to think independently and to express themselves clearly, effectively and creatively. Instructors focus on the skills of communication and the contexts in which human expression occurs. Educational opportunities are provided that:

- develop, through practice, the student's abilities in observing, listening, reading, speaking and writing effectively.
- develop the student's skills in obtaining, interpreting and evaluating information and ideas.
- encourage the student's creative expression.
- enhance the student's awareness of and respect for personal, social and cultural diversity.
- allow for the student's exploration of various methods and technologies in communication.

Humanities and Fine Arts

Humanities and Fine Arts include subject areas that address the meaning of being human. They provide the student with a basis for value judgment and a context for thoughtful action. The study of the humanities frees the student to think beyond personal and cultural limitations, to relate present experiences to human traditions and to consider and choose constructive action in the present and for the future. Courses in Humanities and Fine Arts are designed to:

 develop the student's skills in study, analysis, synthesis and evaluation.

- provide the student the opportunity to develop original ideas and to create works of art.
- develop the student's understanding of history, philosophy, and the fine and performing arts.
- develop the student's awareness of the nature of being human, social issues and spiritual aspirations.
- develop the student's insight into various cultures through the study of the arts, literature, history and foreign languages.
- develop, through study and participation, the student's insight and abilities in the visual and performing arts.
- provide the framework for an understanding of cultural, political and intellectual heritage.

The subject areas include Foreign Languages (Chinese, French, German, Spanish, etc.), certain English and History courses, Humanities, Philosophy, Religious Studies, Art, Theater and Music.

Social and Behavioral Sciences

Social and Behavioral Sciences courses provide students with a broad perspective on human behavior, our cultural heritage, our relationships with others, our social institutions, and the environment. The subject areas include Anthropology, Economics, Geography, History, Political Science, Psychology, Social Science and Sociology.

Physical and Life Sciences

Physics, Chemistry and Earth Science deal with natural laws and theories and their application to human needs. Universal phenomena are studied and analyzed. The Life Sciences (Biology, Botany, Anatomy & Physiology, Microbiology, and Zoology) examine the components of the living world and their interactions with the physical and chemical world.

Mathematics

Mathematics provides the tools and skills to organize our thoughts and apply problem-solving techniques. The study of mathematics helps students understand the quantitative relationships found in business, technology, and the physical, natural and social sciences.

Human Relations

The Human Relations category has been designed in accordance with the requirements of Illinois Public Act 87-581 to include coursework on improving human relations with an emphasis on issues of race, ethnicity, gender and other concerns related to improving human relations. Courses also may focus on non-Western and American diversity.

Global/Multicultural Studies

The College of DuPage faculty has made an educational commitment to international/intercultural studies. The purpose of this category is to enhance student capacity to:

- conceptualize and understand the complexity of an international system (economics, government, politics, etc.)
- understand world cultures and international events.
- appreciate the diversity as well as commonality of human values, beliefs and behaviors.

- understand and apply the principles of intercultural communication.
- broaden student perspective by exposure to a culture different from the student's own.

Contemporary Life Skills

Courses in this category are intended to help students use creative expression, problem solving, interpersonal communication, health and body, computers/ technology, and personal development to function in a changing, technological and complex society.

General Education Categories

For the Associate in Applied Science and Associate in General Studies degrees, General education and elective courses are organized under the following categories of general education.

Electives for the A.A.S. degree vary, depending on the program of study. Check with program adviser(s) for a list of electives.

Any course, 1000 level or higher, can be taken as an elective for the A.G.S. degree.

Communication

English 1101, 1102, 1105 Speech 1100, 1120, 1150

Physical/Life Sciences*

Anatomy and Physiology

Biology

Botany

Chemistry

Earth Science

Microbiology

Physics

Zoology

*Course selection must include at least one course with a laboratory component.

Mathematics

Select mathematics course(s) consistent with specific and general degree requirements.

Humanities/Fine Arts

Art

Chinese

English (except 1101, 1102, 1105 and 1110)

French

German

History (except 1130, 1140, 2210, 2215 and 2260)

Humanities

Italian

Japanese

Korean

Music

Philosophy

Religious Studies

Russian

Spanish

Speech 1110, 2210

Theater

Social and Behavioral Sciences

Anthropology

Economics (except 1110)

Education 1100, 1101

Geography

History 1130, 1140, 2210, 2215, 2260

Political Science

Psychology (except 1140)

Social Science

Sociology (except 2290)

Human Relations

Anthropology 1100*, 1101*, 1105*, 1125*, 1130* (T)

Art 1100*

Education 1101, 1105, 1110 (T)

English 1160*, 1161*, 1165* (T)

Human Services 1113 (O)

Humanities 1110* (T)

Management 2220 (T)

Office Technology Information 2600 (O)

Philosophy 1110*, 1112, 1114, 1117*, 1118*, 1170*, 1175* (T)

Psychology 1150, 2235*, 2240* (T)

Sociology 1100*, 1120, 2215*, 2225, 2290 (T)

Speech 1120 (T)

- * Conforms to Illinois Articulation Initiative general education standards.
- (O) Occupational/Vocational credit
- (T) General Elective credit

Global/Multicultural Studies

This list of courses is subject to change at the beginning of each Fall Semester. Check with the Counseling and Advising Center for an updated Student Planning Worksheet at http://www.cod.edu/advising/studplan.htm Anthropology 1100*, 1101*, 1105*, 1125*, 1130*

Art 1100*, 2214*

Business 2255

Chinese 1100, 1101, 1102, 2201, 2202*

Economics 2220

English 1160*, 1161*, 2226*, 2227*, 2262

French 1100, 1101, 1102, 2201, 2202*, 2251*, 2252*

Geography 1100*, 1105*, 1120*, 2205, 2235

German 1100, 1101, 1102, 2200*, 2201, 2202*

History 2205*, 2210*, 2215*, 2220*, 2225*, 2230*,

2235*, 2240

Human Services 1121 (O)

Humanities 1105*

Italian 1100, 1101, 1102, 2201, 2202*

Japanese 1100, 1101, 1102, 2201, 2202*

Korean 1101, 1102, 2201, 2202*

Philosophy 1110*, 1150*

Political Science 2203*, 2220*, 2221

Religious Studies 1100*, 1150*, 1155*, 2160*

Russian 1101, 1102, 2201, 2202*

Social Science 1110

Sociology 2210*, 2220*

Spanish 1100, 1101, 1102, 2201, 2202*, 2251*, 2252*, 2820

Travel and Tourism 2221

* Conforms to Illinois Articulation Initiative general education standards.

Contemporary Life Skills

This list of courses is subject to change at the beginning of each Fall Semester. Check with the Counseling and Advising Center for an updated Student Planning Worksheet at http://www.cod.edu/advising/studplan.htm

Accounting 1110 (O), 1140 (T) Air Conditioning 1110 (O)

Architecture 1100 (O), 1105 (O) and 1121 (O)

Art 1101 (T), 1105 (T), 1151 (T)

Automotive Service Technology 1110 (O)

Business 1100 (T)

Computer and Internetworking Technology 1100 (O), 1121 (O) Computer Information Systems 1110 (O), 1120 (O), 1130 (O),

1400 (T), 1150 (T)

Cooperative Education 2870 (T), 2871 (T)

Criminal Justice 1100 (T)

Early Childhood Education and Care 1110 (O)

Economics 1110 (T)

Education 1100 (T), 1105 (T), 1110 (T), 1115 (T)

Electro-Mechanical Technology 1101 (O), 1120 (O),

1130 (O), 1300 (O)

English 2251 (T), 2252 (T), 2253 (T), 2261 (T)

Foodservice Administration 1110 (O)

Graphic Arts Technology 1101 (O), 1102 (O)

Graphic Design 1102 (O)

Health Sciences 1110 (O), 1150 (O)

Human Services 1113 (O), 1115 (O)

Journalism and Mass Communication 1100 (T), 1110 (T)

Interior Design 1151 (O), 1153 (O)

Library Technology 1101 (O)

Manufacturing Technology 1171 (O), 1180 (O), 1190 (O), 2280 (O)

Mathematics 1100 (T), 1220 (T)

Motion Picture/Television 1011(O), 1020 (O), 1220 (O)

Office Technology Information 1100 (O), 1200 (O), 1210 (O)

Photography 1100 (O)

Physical Education 1101-1932, except 1800, 1820 and 1840 (T), 2244 (T), 2251 (T), 2254 (T)

Psychology 1140 (T), 1150 (T)

Sociology 2290 (T)

Speech Communication 1110 (T), 1120 (T), 2210 (T)

Travel and Tourism 1121 (O), 1122 (O)

(O) Occupational/Vocational credit

(T) General Elective credit

Electives

Associate in Arts and Associate in Science Degrees

In addition to the courses specified as part of the General Education Core Curriculum, students may select electives from the following areas. Students can earn a maximum of 10 credits in occupational/ vocational areas for elective credit. Students are strongly advised to consult with a faculty adviser and/or the transfer institution in selecting elective courses.

Accounting (except 1110)

Anatomy and Physiology

Anthropology

Art

Biology

Botany

Business

Business Law

Chemistry

Criminal Justice 1100, 1130, 1151, 1152, 2240, 2250*

Computer Information Systems 1150, 1400*

Cooperative Education 2870, 2871

Earth Science

Economics

Education

Engineering

English

Foreign Language: Chinese, French, German, Italian, Japanese, Korean, Russian, Spanish

Geography

History

Humanities

Journalism and Mass Communication

Management

Marketing

Mathematics

Microbiology

Music

Philosophy

Physical Education

Physics

Political Science

Psychology

Religious Studies

Social Science

Sociology

Speech Communication

Theater

Zoology

*All other courses in this subject are assigned to the occupational/vocational categogry

Illinois Articulation Initiative Majors

College of DuPage participates in the IAI majors panels for the Associate in Arts, Associate in Science, Associate in Applied Science, Associate in Engineering, and Associate in Fine Arts degrees to help students transfer major courses to baccalaureate degree-granting schools. Check this web site for College of DuPage majors courses approved by various panels: http://www.itransfer.org/iai/faculty/search/byCourseMj.aspx?section=faculty&subsection=course

Always seek the advice of an academic adviser at College of DuPage or admissions counselor at a transfer institution when choosing major courses. All College of DuPage faculty, including academic subject faculty, counselors and librarians can offer students transfer advice. Consult either the college web site at www.cod.edu, printed Marketing Guides or call College of DuPage at (630) 942-2259 for the names of advisers and their subject areas.

Eligibility for Awarding of a Second Degree

A student meeting specific qualifications may earn two or more different degrees from College of DuPage. Credits earned for degrees already completed may apply toward subsequent degrees. However, a minimum of 10 additional credits must be earned at College of DuPage for each degree sought after the first degree is awarded.

Certificate Requirements

Each candidate for a certificate shall:

- Satisfactorily complete all course requirements for the specific certificate.
- Possess a minimum of 2.0 (C) average in the combined grade point average of all College of DuPage courses numbered 1000 and above on all courses.
- 3. Complete a minimum of one-half the applicable credits at College of DuPage.
- 4. Earn the final applicable credits at College of DuPage:
 - a. If the program requirement is 20 credits or more, earn the final 10 credits at College of DuPage.
 - b. If the program requirement is less than 20 credits, earn one-half the total required credits as the final applicable hours at College of DuPage.
- File a petition for the certificate at least one semester before the anticipated completion date.
- Satisfy all financial obligations and other specific requirements.
- Be in good standing at the time final credit for the certificate is earned.

Reminders

 When students break enrollment for more than three consecutive semesters including summer semester, they are then subject to the degree requirements as stated in the College of DuPage Catalog that is current at the time of re-entry, subject to changes.

- Courses numbered below 1000 represent courses not usually found in the curriculum of a baccalaureategranting institution and, therefore, may not transfer. They do not apply to any College of DuPage degree or certificate.
- Students are responsible for proper registration each semester. The planning of courses relevant to future goals and degree requirements is the responsibility of the student.
- 4. Students should contact a faculty adviser for advice regarding degree requirements, transfer requirements and achievement of educational goals.
- Students with special problems related to degree requirements may appeal to the Academic Regulations Committee. For more information, contact the Vice President for Student Affairs.
- All students intending to transfer are encouraged to plan their programs according to the requirements of the transfer institution.
- Degree and major requirements at baccalaureategranting institutions may require more than two academic years of study after completion of an associate's degree at College of DuPage.
- Some College of DuPage courses have been designed for two-year curricula. Although they are considered college level, they may not meet the objectives of a bachelor's degree program and, therefore, may not be transferable.







Associate in Applied Science

Codes throughout this section of the *Catalog* represent major/field of study.

At press time, program information was current. For updated information, consult the college web site: www.cod.edu.

Accounting

AAS Degree, Three Certificates

The Accounting program is designed to provide the theoretical and practical background necessary for supervisory and administrative careers in accounting and accounting-related areas. This degree program consists of a minimum of 64 credits in general education, program requirements and program electives. The following list contains the required and elective courses.

AAS DEGREE PROGRAM REQUIREMENTS Code 3203

cou 1140 Financial Accounting4	Accou
cou 1150 Managerial Accounting4	Accou
cou 2205 Federal Taxation I3	Accou
cou 2241 Intermediate Accounting I4	Accou
cou 2242 Intermediate Accounting II4	Accou
cou 2251 Cost Accounting3	Accou
sin 1100 Introduction to Business	Busin
1150 Introduction to Computer	┌ Cis
Information Systems3	
OR	
1110 Using Computers: An Introduction2	Cis
i 1100 Introduction to Computer Keyboarding2	┌ Ofti
OR	
i 1210 Word Processing I3	└ Ofti
ono 2201 Macroeconomics and the	Econo
Global Economy3	
	Philo
35 to 37	

Prograi	m Elec	tives	17		
Select a	t least	17 credits from below.			
Accou	1175	Microcomputer Accounting	2		
Accou	2200	Income Tax Return Preparation	3		
Accou	2206	Federal Taxation II	3		
Accou	2260	Advanced Accounting	3		
Accou		Governmental and Not-for-Profit			
		Accounting	3		
Accou	2271	Auditing I			
Accou	2272	Auditing II	3		
Buslw		Business Law I			
Cis	1221	Introduction to Spreadsheets	3		
Co-op	2861	Cooperative Education/Internship			
		(Occupational)	1		
Econo	2202	Microeconomics and the			
		Global Economy	3		
			17		
Genera	l Educ	ation	12 to 16		
	(In addition to the courses listed above)				
`	,				
Iotal C	redits	Required	64 to 70		

CERTIFICATES

			ccounting certificate requires a minimu the courses listed below. Code 4205	m
ſ	- Accou		Accounting Procedures	4
L	- Accou	•	Financial Accounting	4
	Accou	1175	Microcomputer Accounting	2
Γ	- Cis	1150	Introduction to Computer	
			Information Systems	3
		OR		
L	- Cis	1110	Using Computers: An Introduction	2
	Engli	1101	English Composition I	3
	Math	1100	Business Mathematics	3
	Ofti	1100	Introduction to Computer Keyboarding	2
	The Acc	ountir	ng certificate requires a minimum of 32	
	credits in		ourses listed below. Code 4207	
	Accou		Financial Accounting	
	Accou		Managerial Accounting	
	Accou	1175	Microcomputer Accounting	2
٢	Accou	2205	Federal Taxation I	3
		OR		
	Accou	2251	Cost Accounting	3
		OR		
L	Accou	2200	Income Tax Return Preparation	3
	Busin	1100	Introduction to Business	3
٢	- Cis	1150	Introduction to Computer	
			Information Systems	3
		OR		
L	– Cis	1110	Using Computers: An Introduction	2
	Cis	1221	Introduction to Spreadsheets	3
	Engli	1101	English Composition I	3
	Math	1100		
	Ofti	1100		
	Ofti	1210	Word Processing I	3

Advanced Accounting certificate, Code 4209

- (1) To be admitted to take the CPA Examination, a candidate in Illinois must have successfully completed at least 150 semester hours of acceptable credit including a baccalaureate or higher degree, including a minimum number of hours in accounting and business courses. CPA Exam candidates having a non-accounting business baccalaureate degree who then earn the Advanced Accounting certificate will accumulate more than the minimum number of hours required. However, all of the courses required to earn this certificate are considered essential for successful CPA Exam candidates.
- (2) The Advanced Accounting certificate is designed for CPA Examination candidates who have already earned a baccalaureate degree with a businessrelated major (for example, management, marketing, etc.) other than accounting.
- (3) The Advanced Accounting certificate is also designed for CPA Examination candidates who have already earned a baccalaureate degree with a non-business major. However, to meet the minimum semester hours required in business courses to be eligible to sit for the exam, candidates are encouraged to choose from among the following courses (all of which are three credit hours): Business 1100 (Introduction to Business), Business 2210 (Principles of Finance), Business 2200 (Budgeting), Business 2255

(International Business), Business 2260 (International Finance), Economics 2201 (Economics I), Economics 2202 (Economics II), Management 2210 (Principles of Management), Management 2220 (Organizational Behavior), Marketing 2210 (Principles of Marketing), and Philosophy 1114 (Business Ethics).

(4) A Computer Information Systems course, which includes coverage of word processing and spreadsheet applications, will not count toward the accounting or business hours required, but is also considered essential.

The **Advanced Accounting certificate** requires a total of 43 credits that must be earned by successfully completing the following required courses:

Accou	1140	Financial Accounting	4
Accou	1150	Managerial Accounting	4
Accou	2205	Federal Taxation I	3
Accou	2206	Federal Taxation II	3
Accou	2241	Intermediate Accounting I	4
Accou	2242	Intermediate Accounting II	4
Accou	2251	Cost Accounting	3
Accou		Advanced Accounting	
Accou	2265	Governmental and Not-for-Profit	
		Accounting	3
Accou	2271	Auditing I	3
Accou	2272	Auditing II	3
Buslw	2211	Business Law I	3
Buslw	2212	Business Law II	3

Heating, Air Conditioning and Refrigeration

Three AAS Degrees, Two Certificates

The Heating, Air Conditioning and Refrigeration program offers training in current technology for diagnosing, servicing, repairing, installing and managing heating, air conditioning and refrigeration energy systems.

The **Service Technician degree** consists of a minimum of 64 credits in general education, program requirements and program electives. The following list contains the required courses.

AAS DEGREE PROGRAM REQUIREMENTS Code 3902

Airc		Refrigeration Principles	3
Airc	1105	Introduction to Safety, Materials and	
		Equipment	3
Airc	1108	Refrigerant Certification	1
Airc	1110	Introduction to Controls	3
Airc	1180	Introduction to Heating	5
Airc	1186	Introduction to Hydronics	2
Airc	2201	Residential Air Conditioning	3
Airc	2202	Commercial Air Conditioning	3
Airc	2210	Commercial Refrigeration	5
Airc		Troubleshooting Systems	
Airc	2240	Load Calculations and Duct Design	5
			36
Elective	s		5

Select 5 credits from any 1000- or 2000-level courses.

Progran	n Elec	tives	5	
Select a	t least	5 credits from the courses below.		
Airc	1112	Residential Refrigeration	3	
Airc	1161	Introduction to Sheet Metal	2	
Airc	1187	Central Heating Plants	3	
Airc	2205	Heat Pumps	2	
Airc	2220	Installation	3	
Airc	2230	Advanced Controls	3	
Airc	2236	Central Cooling Plants	3	
Airc	2241	Industrial Air Conditioning Design.	3	
Airc	2250	System Balancing	2	
Co-op	2861	Cooperative Education/Internship		
		(Occupational)	1	
General Education				
Total Cr	Total Credits Required 64 to 68			

The **Contractor degree** provides the technical and business skills requisite to be successful as an HVAC contractor. This degree consists of a minimum of 66 credits in general education, program requirements and program electives. The following list contains the required courses.

AAS DEGREE PROGRAM REQUIREMENTS Code 3905

Airc	1100	Refrigeration Principles3
Airc	1105	Introduction to Safety, Materials
		and Equipment3
Airc		Refrigerant Certification1
Airc	1110	Introduction to Controls3
Airc	1180	Introduction to Heating5
Airc		Residential Air Conditioning3
Airc		Troubleshooting Systems3
Airc	2240	Loan Calculations and Duct Design5
Airc	2260	Heating and Air Conditioning Contracting .3
Busin	1100	Introduction to Business3
Manag	2210	Principles of Management3
		35
		00
Progran	n Elect	tives12
		tives12
	p to 12	tives12 credit hours from the courses listed below.
Select u	p to 12 1140	tives
Select u Accou	p to 12 1140	tives12 credit hours from the courses listed below.
Select u Accou	p to 12 1140 2862	tives
Select u Accou Airc	p to 12 1140 2862 1110	tives
Select u Accou Airc	p to 12 1140 2862 1110 2240	tives
Select u Accou Airc Cis Manag Marke	p to 12 1140 2862 1110 2240 2220	tives
Select u Accou Airc Cis Manag Marke General	p to 12 1140 2862 1110 2240 2220	tives
Select u Accou Airc Cis Manag Marke General In addition	p to 12 1140 2862 1110 2240 2220 I Educ on to the	tives

The **Building Environmental degree** is designed for the individual seeking a career in stationary operations and management. In addition to technical skills, this degree provides requisite business skills considered essential for career advancement. This degree consists of a minimum of 66 credits in general education, program requirements, electives and program electives. The following list contains the required courses.

AAS DEGREE **Architecture** PROGRAM REQUIREMENTS Three AAS Degrees, Three Certificates Code 3906 Architectural Technology-CADD Degree Airc 1100 Refrigeration Principles......3 The Architectural Technology degree includes the core Airc 1105 Introduction to Safety, Materials group of architecture courses as well as courses designed and Equipment3 to prepare students for immediate entry into the workplace 1108 Refrigerant Certification1 Airc as a drafter. This degree program consists of a minimum of 1110 Introduction to Controls3 Airc 67 required credits from courses listed below. Airc 1180 Introduction to Heating5 Airc 1187 Central Heating Plants3 PROGRAM REQUIREMENTS Airc 2202 Commercial Air Conditioning3 Code 3921 2230 Advanced Controls3 Airc Arch 1100 Introduction to Architecture3 Airc 2236 Central Cooling Plants3 1101 Basic Architectural Drafting2 Arch Airc 2250 System Balancing2 1111 Building Materials.....4 Arch Busin 1100 Introduction to Business3 Arch 1121 Architectural Design Communication4 Cis 1150 Introduction to Computer Information Arch 1131 Introduction to Architectural Design......4 Systems3 1211 Basic Computer-Aided Drafting — Arch Manag 2210 Principles of Management......3 AutoCad......3 Arch 1212 Advanced Computer-Aided Drafting — Electives6 AutoCad3 Select at least six credit hours from the courses listed below. 2102 Detailing and Construction Documents5 Arch Airc 2862 Cooperative Education/Internship 2210 Mechanical, Electrical and Arch (Occupational)2 Plumbing Systems3 Manag 2170 Project Management......3 2220 Architectural Computer Modeling2 Arch Manag 2240 Human Resource Management3 2230 Structural Systems......3 Arch 2240 Codes, Specifications and Contracts......3 Arch Select three credits from any Air Conditioning course. Engli 1101 English Composition I......3 Physi 1201 General Physics I5 General Education19 1431 Precalculus I......5 Math In addition to the courses listed above. Total Credits Required66 Program Electives6 (Select six credits from the following courses.) **CERTIFICATES** Arch 2260 Construction Estimating......3 The **Stationary Operator certificate** requires a minimum Arch 2840 Architectural Experimental/ of 34 credits in the courses listed below. Pilot Class1 to 6 Code 4901 Cit 1121 Networking Basics3 Airc 1100 Refrigeration Principles......3 Inter 1120 Interior Systems2 Airc 1105 Introduction to Safety, Materials Inter 1170 Environmental Materials and and Equipment.....3 Applications3 1108 Refrigerant Certification1 Airc 1101 Foundations of Digital Photography.......3 Photo Airc 1110 Introduction to Controls3 General Education9 Airc 1180 Introduction to Heating5 (In addition to the courses listed above) 1186 Introduction to Hydronics2 Airc Airc 1187 Central Heating Plants3 Total Credits Required67 2202 Commercial Air Conditioning3 Airc Airc 2230 Advanced Controls3 Pre-Architecture Degree 2231 Direct Digital Control of Airc The Pre-Architecture degree includes the core group of HVAC Systems3 architecture courses as well as courses designed to Airc 2236 Central Cooling Plants3 prepare students for transfer to baccalaureate or Airc 2250 System Balancing2 professional programs. The second year curriculum emphasizes portfolio production while the electives allow The Service Technician certificate requires 34 credits in students to customize their curriculum to match the the courses listed below. Code 4902 transfer institution. The degree program consists of a 1100 Refrigeration Principles......3 Airc minimum of 65 credits from courses listed below. Airc 1105 Introduction to Safety, Materials and Equipment3 PROGRAM REQUIREMENTS Airc 1108 Refrigerant Certification1 Code 3922 1110 Introduction to Controls3 Airc Arch 1100 Introduction to Architecture3 Airc 1161 Introduction to Sheet Metal.....2 Arch 1111 Building Materials.....4 Airc 1180 Introduction to Heating5 Arch 1121 Architectural Design Communication4 Airc 2201 Residential Air Conditioning3 1131 Introduction to Architectural Design......4 Arch Airc 2202 Commercial Air Conditioning3 2201 Architectural Design I......5 Arch Airc 2210 Commercial Refrigeration......5 Arch 2202 Architectural Design II......5 Airc Arch 2203 Introduction to Architectural Theory3 Airc 2225 Troubleshooting Systems......3

	Arch Arch	2250 Architectural Presentation and Portfolio3 1211 Basic Computer-Aided Drafting —	Arch	1212 Advanced Computer-Aided Drafting— AutoCad3
	AICH	AutoCad3	Arch	2102 Detailing and Construction Documents5
	Arch	2220 Architectural Computer Modeling2	Arch	2210 Mechanical, Electrical and
			AICH	
	Engli	1101 English Composition I	ما میں ۸	Plumbing Systems
	Math	1431 Precalculus I	Arch	2230 Structural Systems3
-	Speec	1100 Fundamentals of Speech	Engli	1102 English Composition II
		Communication3	Engli	1105 Introduction to Technical Writing3
		OR	Manuf	1160 Technical Static and Strength of
	Speec	1120 Small-Group Communication3		Material4
		OR	Math	1635 Statistics4
_	Speec	1150 Introduction to Business		12
		Communication3	Genera	al Education6
		47		ition to the courses listed above)
	Flective	es 9	•	,
		ours in any 1000- or 2000-level courses	Total C	redits Required67 to 69
		Il Education9 to 10	CERTI	FICATES
	(In addi	tion to the courses listed above)	The Ar	chitectural Rendering certificate requires 18
	Total C	redits Required65 to 66		in the courses listed below and gives students
	iotai o			skills for preparing professional architectural
	The Co	nstruction Management degree combines a		tations in a variety of media. Students should have a
		of architecture and business classes to prepare		ound in architecture or art. Code 4919
		s for entry level positions in construction	_	
			Arch	1121 Architectural Design Communication4
		ement and construction firms or for transfer to other	Arch	2250 Architectural Presentation and
		ons. The degree consists of a minimum of 67	Α Ι	Portfolio3
	creaits i	from the courses listed below.	Arch	1212 Advanced Computer-Aided Drafting —
	DDOC	DANA DECLUDENAENTS		AutoCad3
		RAM REQUIREMENTS	Arch	2220 Architectural Computer Modeling2
	Code 39	924	Photo	1101 Foundations of Digital Photography3
	Arch	1111 Building Materials4	Art	2221 Painting I3
	Arch	1130 Blueprint Reading2		
	Arch	1141 Construction Methods I2	The Pre	e-Architecture certificate requires 34 to 37 credits
	Arch	1301 Introduction to Construction	in the c	ourses listed below. It provides students with the
		Management3	group o	of classes commonly required for transfer to an
	Arch	2142 Construction Methods II2		ctural program. Code 4920
	Arch	2150 Basic Surveying2		
	Arch	2240 Codes, Specifications and Contracts3	PROG	RAM REQUIREMENTS
	Arch	2260 Construction Estimating3	Arch	1100 Introduction to Architecture3
	Arch	2270 Construction Scheduling3	Arch	
	Accou	1140 Financial Accounting4		1121 Architectural Design Communication4
	Manag	1100 Supervision3	Arch	1131 Introduction to Architectural Design4
	_	•	Arch	2201 Architectural Design I
	Manuf	2280 Industrial Safety2	Arch	2250 Architectural Presentation and
	Engli	1101 English Composition I3		Portfolio3
	Philo	1114 Business Ethics3		19
Г	Physi	1100 Physics4	Progra	m Electives5 to 8
	D	OR		the following courses based on transfer institution
_	Physi	1161 Technical Physics I4		ments. Requires approval by architecture adviser.
	Math	1115 Technical Mathematics I3	Arch	1211 Basic Computer-Aided Drafting —
		OR	AICH	AutoCad3
	Math	1431 Precalculus I5	Arab	1212 Advanced Computer-Aided Drafting —
		OR	Arch	
	Math	1533 Finite Mathematics I4	Arab	AutoCad
	Cis	1150 Introduction to Computer	Arch	2202 Architectural Design II
		Information Systems3	Arch	2203 Introduction to Architectural Theory3
		49 to 51	Arch	2220 Architectural Computer Modeling2
			Genera	al Education10
	Prograi	m Electives12		's minimum based on transfer institution
	٠ نــيـ	to move the least of the course in the afailteent of the course in the afailteent of the course in t		ments. Requires approval by architecture adviser.
		ts must take 12 hours in the following classes. Only		
		th or English class listed below may contribute to	iotal C	redits Required34 to 37
	the 12 h			
	Arch	1100 Introduction to Architecture3		
	Arch	1101 Basic Architectural Drafting2		
	Arch	1211 Basic Computer-Aided Drafting —		

AutoCad......3

The Arc	hitecti	ural Technology certificate requires 32	
credits in the courses listed below and prepares students			
for entry level positions as drafters in architectural or			
constru	ction fir	ms. Code 4921	
Arch	1101	Basic Architectural Drafting	2
Arch	1111	Building Materials	4
Arch	2102	Detailing and Construction Documents.	5
Arch	2110	Advanced Architectural CADD	3
Arch	2210	Mechanical, Electrical and Plumbing	
		Systems	3
Arch	2230	Structural Systems	3
Arch	2240	Codes, Specifications and Contracts	3
Arch	2260	Construction Estimating	3
Arch	1211	Basic Computer-Aided Drafting —	
		AutoCad	3
Arch	1212	Advanced Computer-Aided Drafting —	
		AutoCad	3

Automotive Service Technology

AAS Degree, Certificate

The Automotive Service Technology program is designed to prepare students for career entry or career advancement in the automotive field. Students will learn skills in diagnosing, servicing and maintaining today's sophisticated vehicles. This program is NATEF-certified. This degree program consists of a total of 66 to 70 credits in general education, program requirements and electives. The following list contains the required courses.

AAS DEGREE PROGRAM REQUIREMENTS Code 3909

Auto	1110	Engine Design and Operation	.4
Auto	1120	Manual Drive Train and Axles	.4
Auto	1131	Automotive Basic Electricity	.4
Auto	1140	Suspension, Steering and Alignment	.4
Auto	1232	Automotive Engine Electricity	.4
Auto	1240	Braking Systems	.4
Auto	1250	Automotive Air Conditioning and	
		Heating	4
Auto		Engine Controls and Emissions I	
Auto	2120	Automatic Transmission	.4
Auto		Engine Controls and Emissions II	
Auto	2180	Automotive Service	.6
			16
Comple	te a tw	o-credit course from the Global Studies or Life Skills category.	.2
		aton18 to 2 the courses listed above)	2

CERTIFICATE

The Automotive Service Technology certificate requires 46 credits in the courses listed below. Code 4909

Total Credits Required66 to 70

Auto	1110	Engine Design and Operation4
Auto	1120	Manual Drive Train and Axles4
Auto	1131	Automotive Basic Electricity4
Auto	1140	Suspension, Steering and Alignment4
Auto	1232	Automotive Engine Electricity4
Auto	1240	Braking Systems4

Auto 1250 Automotive Air Conditioning and	
Heating	4
Auto 1261 Engine Controls and Emissions I	4
Auto 2120 Automatic Transmission	4
Auto 2162 Engine Controls and Emissions II.	4
Auto 2180 Automotive Service	6

Computer Information Systems (CIS)

Two AAS Degrees, 12 Certificates

The Computer Information Systems program prepares students to work in the field of computer technology.

AAS Degree

The **Microcomputer Specialist degree** program consists of a total of 64 credits in program requirements, program electives and general education. The following list contains the required courses, some of which may be used to meet general education requirements.

PROGRAM REQUIREMENTS Code 3216

		-		
	Cis	1120	The Internet	2
	Cis	1130	Windows Basics	2
	Cis	1150	Introduction to Computer Information	
			Systems	
	Cis	1160	Windows Command Line (DOS)	2
	Cis	1180	Introduction to Networking	3
	Cis	1205	Office Suite Software and Integration	3
	Cis	1221	Introduction to Spreadsheets	3
	Cis	1222	Advanced Spreadsheets	2
	Cis		Microcomputer Database Application.	
	Cis		HTML and CSS	
	Cis	1400	Programming Logic and Technique	4
	Cis	2770	Introduction to System Analysis and	
			Design	3
_	Accou	1110	Accounting Procedures	4
		OR		
_	Accou	1140	Financial Accounting	
				37
	Progran	n Elec	tives	9
			urs from any Cis courses except Cis 11	
			ation	18
	(In addit	ion to t	the courses listed above)	
	Total Cr	edits F	Required	64

The Application Programmer degree program consists of a minimum of 64 credits in program requirements, program electives, emphasis courses and general education. The following list contains the required courses, some of which may be used to meet general education requirements.

PROGRAM REQUIREMENTS Code 3222

Cis	1150 Introduction to Computer Information	
	Systems	3
⊢ Cis	1160 Windows Command Line (DOS)	2
	OR	
Cis	1230 Microcomputer Database Application	3
	OR	
└ Cis	1310 HTML and CSS	3

CIS	1400 Programming Logic and Technique4	CIS	1310 HINL 810 C55
Cis	1450 Introduction to Linux/Unix	Cis	1400 Programming Logic and Technique4
0.0	Operating Systems3	Cis	1600 Fundamentals of Operating Systems3
0:-		Ols	1000 Tundamentals of Operating Systems
- Cis	1230 Microcomputer Database Application3		
	OR		JNIX certificate requires 16 credits in the courses
- Cis	2710 Database Management4	listed l	below. Code 4929
Cis	2541 C++ Language Programming4	Cis	1150 Introduction to Computer
Cis	2542 Advanced C++ with Data Structure		Information Systems3
0.0	Applications4	Cis	1400 Programming Logic and Technique4
Cia			
Cis	2770 Introduction to System Analysis and	Cis	1450 Introduction to Linux/UNIX
	Design3		Operating Systems3
Cis	2790 Systems Analyst Simulation3	Cis	2440 Shell Programming for UNIX/Linux3
	29 to 31	Cis	2450 UNIX System Administration3
Empha	000 Courses 9 to 10	The D	Jackton Databasa Brafisianay cartificata requires
	ses Courses8 to 10		Desktop Database Proficiency certificate requires
Choose	e Java, Visual Basic or C++ emphasis.		ciency in using Windows and 10 credits in the courses
		listed l	below. Code 4932
Java Er	mphasis8	Cis	1150 Introduction to Computer Information
The foll	owing courses are required in addition to core		Systems3
	n requirements.	Cis	1230 Microcomputer Database Application3
Cis	·	Cis	2710 Database Management4
	2571 Introduction to Java4	CIS	27 TO Database Management4
Cis	2572 Applications in Java4		
		The S	Spreadsheet Proficiency certificate requires 17
Visual E	Basic Emphasis10	credits	ts in the courses listed below. Code 4933
The foll	owing courses are required in addition to core	Cis	1130 Windows Basics2
	m requirements.	Cis	1150 Introduction to Computer Information
	1130 Windows Basics2	Ols	
Cis		-	Systems
Cis	1510 Graphical User Interface Programming4	Cis	1205 Office Suite Software and Integration3
Cis	2510 Advanced Graphical User Interface	Cis	1221 Introduction to Spreadsheets3
	Programming4	Cis	1222 Advanced Spreadsheets2
		Cis	1400 Programming Logic and Technique4
Vigual (C++ Emphasis8		
		The W	Nob Dragrammer contificate requires 21 aredits in
	owing courses are required in addition to core		Web Programmer certificate requires 31 credits in
	n requirements.		ourses listed below. Code 4934
Cis	2551 Introduction to MS Visual C++ .NET	Cis	1120 The Internet2
	Programming4	Cis	1130 Windows Basics2
Cis	2552 Object-oriented Program	Cis	1150 Introduction to Computer Information
	Development with VC++ .NET4		Systems
	Development with VOT 1	Cis	1180 Introduction to Networking3
D	m Florifica		
Progra	m Electives1 to 9	Cis	1300 Web Design Software3
		Cis	1310 HTML and CSS3
Select f	rom any 1000- or 2000-level Cis courses except	Cis	1400 Programming Logic and Technique4
1110 ar	nd 1205. The following courses are recommended:	Cis	2320 JavaScript and Advanced HTML3
Cis	1600 Fundamentals of Operating Systems3	Cis	2571 Introduction to Java4
Cis	2420 Microprocessor Assembly Language4	Cis	2572 Applications in Java4
Ols	2420 Microprocessor Assembly Language4	Ols	2372 Applications in Java4
Genera	al Education18		
(In addi	ition to those listed above)		/isual BASIC Language Proficiency certificate
-	·	require	res 15 credits in the courses listed below. Code 4936
iotal C	redits Required64 to 68	Cis	1150 Introduction to Computer
			Information Systems3
CERTI	FICATES	Cis	1400 Programming Logic and Technique4
OLITTI	TIOATEO		
The Mic	crocomputer Software certificate requires 35	Cis	1510 Graphical User Interface Programming4
	in the courses listed below. Code 4924	Cis	2510 Advanced Graphical User Interface
Cis	1120 The Internet2		Programming4
Cis	1130 Windows Basics2		- ~
		The C	C++ Language Proficiency certificate requires 15
Cis	1150 Introduction to Computer Information		ts in the courses listed below. Code 4937
	Systems3		
Cis	1160 Windows Command Line (DOS)2	Cis	1150 Introduction to Computer
Cis	1180 Introduction to Networking3		Information Systems3
Cis	1205 Office Suite Software and Integration3	Cis	1400 Programming Logic and Technique4
		Cis	2541 C++ Language Programming4
Cis	1221 Introduction to Spreadsheets	Cis	2542 Advanced C++ with Data Structure
Cis	1222 Advanced Spreadsheets2	010	
Cis	1230 Microcomputer Database Application3		Applications4
Cis	1240 Presentation Graphics — Windows		

Based......2

The Web Technician certificate requires 20 credits in the	The Computer Internetworking Technician degree	
courses listed below. Code 4939	consists of a minimum of 65 credits in general education	
Cis 1120 The Internet2		Э
Cis 1130 Windows Basics2	required courses, some of which may be used to meet	
Cis 1150 Introduction to Computer Information	general education requirements.	
Systems3		
Cis 1300 Web Design Software3	AAS DEGREE	
Cis 1310 HTML and CSS3	PROGRAM REQUIREMENTS	
Cis 1400 Programming Logic and Technique4	Code 3916	
Cis 2320 JavaScript and Advanced HTML3	Cit 1100 PC Maintenance and Upgrading	.2
	Cit 1111 Computer and Hardware Maintenance	
The Enterprise Database Proficiency certificate	Cit 1112 Advanced System Maintenance	
requires 13 credits in the courses listed below. Code 4945	Cit 1121 Networking Basics	
Cis 1400 Programming Logic and Technique4	Cit 1122 Routers and Routing Basics	
Cis 2720 Structured Query Language (SQL) I3	Cit 1123 Switching Basics and Intermediate	
Cis 2725 Enterprise SQL Application3	Routing	
OR	Cit 1124 WAN Technologies	
- Cis 2730 Enterprise Database Development3	Cit 1635 Data Communications and Networks	
Cis 2770 Introduction to System Analysis and	Cit 1640 Security +	
Design	OR	
C	Cit 2251 Fundamentals of Cisco Network Security.	-
The Visual C++ Language Proficiency certificate	Cit 2110 Windows XP Professional	
requires 23 credits in the courses listed below. Code 4946	Cit 2120 Windows 2003 Server	
Cis 1150 Introduction to Computer Information	Cit 2651 Computer Forensics I	
Systems	Ofti 2600 Professional Development	٠.٠
Cis 1400 Programming Logic and Technique4		
Cis 2541 C++ Language Programming4		
Cis 2542 Advanced C++ with Data Structure	Math 1431 Precalculus I	_
Applications4		
Cis 2551 Introduction to MS Visual C++	Physi 1100 Physics45 to 4	7-
NET Programming4		
Cis 2552 Object-oriented Program Development	Program Electives	
with VC++ .NET4	Students may take any Cit course or any of the following.	
	Cis 1400 Programming Logic and Technique	.4
The JAVA Language Proficiency certificate requires 15	Cis 1450 Introduction to Linux/UNIX	
credits in the courses listed below. Code 4947	Operating Systems	
Cis 1150 Introduction to Computer Information	Elect 1100 Electricity and Electronics Fundamentals.	.2
Systems	General Education	12
Cis 1400 Programming Logic and Technique4		
Cis 2571 Introduction to Java4		
Cis 2572 Applications in Java4		5/
The Linux certificate requires 16 credits in the courses	CERTIFICATES	
listed below. Code 4949	The System Support Professional certificate prepares	;
Cis 1150 Introduction to Computer Information	students to work as Computer and Network Support	
Systems	Specialists. Upon completion, students are prepared for	
Cis 1400 Programming Logic and Technique4		
Cis 1450 Introduction to Linux/UNIX Operating	CompTIA Net+, and CompTIA Security+. This certificate	
Systems	r ta	
Cis 2440 Shell Programming for UNIX/Linux		
Cis 2455 Linux System Administration		2
2-00 Elliax dystem Naministration	Cit 1111 Computer and Hardware Maintenance	
	Cit 1112 Advanced System Maintenance	
Computer and Internativerking	Cit 1121 Networking Basics	
Computer and Internetworking	Cit 1635 Data Communications and Networks	
Technologies (CIT)	Cit 1640 Security+	
AAS Degree, Eight Certificates		
The Computer and Internetworking Technologies program	The Cisco Firewall Specialist certificate requires a	
is designed to provide the student a broad exposure to	minimum of 18 credits in the courses listed below.	
computer systems as well as networking. Design of	Code 4911	
systems and networks is emphasized, along with	Cit 1121 Networking Basics	
troubleshooting skills.	Cit 1122 Routers and Routing Basics	
	Cit 1123 Switching Basics and Intermediate	

Cit

Routing......3

1124 WAN Technologies......3

Cit	2251 Securing Network Routers and	Cit	2651 Computer Forensics I3
	Switches (SNRS)3	Cit	2652 Computer Forensics II3
Cit	2252 Securing Networks with PIX and	Cis	1450 Introduction to Linux/UNIX
	Application Security Appliance (SNPA)3		Operating Systems3
	, , ,	Crimj	1153 Rules of Evidence3
The Mi	crocomputer Servicing Technician certificate	•	
	s a minimum of 13 credits in the courses listed	The In	trusion Prevention Systems Specialist (IPS)
	Code 4914		cate requires a minimum of 18 credits in the courses
Elect	1100 Electricity and Electronics		pelow. Code 4962
	Fundamentals2	Cit	1121 Networking Basics3
Cit	1100 PC Maintenance and Upgrading2	Cit	1122 Routers and Routing Basics3
Cit	1111 Computer and Hardware Maintenance3	Cit	1123 Switching Basics and Intermediate
Cit	1112 Advanced System Maintenance3		Routing3
Cit	1635 Data Communications and Networks3	Cit	1124 WAN Technologies3
		Cit	2251 Securing Network Routers and
The Ne	etwork Professional certificate requires a		Switches (SNRS)3
	um of 12 credits in the courses listed below.	Cit	2253 Intrusion Prevention Systems (IPS)3
Code 4			(v)
Cit	2241 Cisco Certified Network Professional I3		
Cit	2242 Cisco Certified Network Professional II3	Cosn	netology
Cit	2243 Cisco Certified Network Professional III3		egree, Certificate
Cit	2244 Cisco Certified Network Professional IV3		
Oit	EETT Globb Common Notwork Professional IV IIIII		its will learn professional level techniques in hair
The Co	omputer and Internetworking Technologies		, chemical processes, esthetics and nail technology.
	cate requires a minimum of 44 credits in the courses		es students for state certification for the Illinois
	pelow. Code 4916		etology License from the Department of Professional
Elect	1100 Electricity and Electronics	and Fir	nancial Regulations.
Lioot	Fundamentals2		
Elect	1101 Circuits I		osmetology degree consists of a minimum of 64
Elect	1102 Circuits II4	credits	in program requirements and general education
Cit	1121 Networking Basics3	course	S.
Cit	1122 Routers and Routing Basics3		
Cit	1123 Switching Basics and Intermediate	_	DEGREE
Oit	Routing	PROG	RAM REQUIREMENTS
Cit	1124 WAN Technologies3	Code 3	3528
Cit	1131 PC Maintenance and Upgrading2	Cosme	e 1101 Salon Safety and Sanitation I2
Cit	2231 Computer and Hardware Maintenance3		e 1103 Cosmetic Chemical Services I3
Cit	2233 Advanced System Maintenance3		e 1105 Introduction to Basic Hairstyling I3
Cit	2235 Data Communications and Networks3		e 1107 Introduction to Basic Thermal Styling I2
⊢ Math	1431 Precalculus I5		e 1111 Introduction to Hair Styling II2
IVICUI	AND		e 1113 Introduction to Chemical Services II3
Math	1432 Precalculus II: Trigonometry3		e 1115 Salon Operations I3
Cis	1400 Programing Logic and Technique4		e 1117 Introduction to Esthetics and Nail
Ols	1400 1 Tograffiling Logic and Technique		Technology I2
The Int	ternetworking Technician certificate requires a	Cosme	e 1120 License Review I2
	um of 12 credits in the courses listed below.		2201 Hairstyling III3
Code 4			2203 Chemical Services III3
Cit	1121 Networking Basics3		2205 Advanced Esthetics and Nail
Cit	1122 Routers and Routing Basics3		Technology2
Cit	1123 Switching Basics and Intermediate	Cosme	2207 Salon Safety and Sanitation II2
Oit	Routing basics and intermediate		2221 Advanced Hair Styling2
Cit	1124 WAN Technologies3		2223 Advanced Chemical Services I3
Oit	1124 WAIN Technologies		e 2225 Salon Operations II3
The Co	omputer Forensics certificate prepares students		e 2227 Advanced Thermal Styling2
	the latest methods in data preservation,		e 2250 License Review II2
	cation and extraction from various file systems.		e 2253 Advanced Chemical Services II2
	completion, students will perform forensic analysis of		46
	is using powerful examination toolkits. Students	0	
	niversal practices in forensic investigations and		al Education
	ce handling. The certificate requires a minimum of		nts must complete a total of 18 semester hours of
	dits in the courses listed below. Code 4961		Il education requirements including Chemistry 1105
Cit		-	peech 1120.
	1100 PC Maintenance and Upgrading2	Total C	Credits Required64
Cit	1111 Computer and Hardware Maintenance3		-
Cit Cit	1112 Advanced System Maintenance3		
OIL	1121 Networking Basics3		

CERTIFICATE

The Cos	metol	ogy certificate requires a minimum of 46	
credits ir	n the c	ourses listed below. Code 4528	
Cosme	1101	Salon Safety and Sanitation I	2
Cosme	1103	Cosmetic Chemical Services I	3
Cosme	1105	Introduction to Basic Hairstyling I	3
Cosme	1107	Introduction to Basic Thermal Styling I	2
Cosme		Introduction to Hair Styling II	
Cosme	1113	Introduction to Chemical Services II	3
Cosme	1115	Salon Operations I	3
Cosme	1117	Introduction to Esthetics and Nail	
		Technology I	2
Cosme		License Review I	
Cosme	2201	Hairstyling III	3
Cosme	2203	Chemical Services III	3
Cosme	2205	Advanced Esthetics and Nail	
		Technology	
Cosme		Salon Safety and Sanitation II	
Cosme		Advanced Hair Styling	
Cosme		Advanced Chemical Services I	
Cosme		Salon Operations II	
Cosme		Advanced Thermal Styling	
Cosme		License Review II	
Cosme	2253	Advanced Chemical Services II	2

Criminal Justice

AAS Degree, Two Certificates

The Criminal Justice program is designed to prepare students for career entry or career advancement in law enforcement and criminal justice agencies. This program is particularly useful for those pursuing careers with local and state law enforcement agencies and it can also prepare students for entry-level correctional and private security positions. Also, an Associate in Arts (AA) transfer option is available in Criminal Justice. This degree consists of a minimum of 64 credits in courses listed below.

AAS DEGREE PROGRAM REQUIREMENTS Code 3464

Crimj	1100	Introduction to Criminal Justice	3
Crimj	1151	Constitutional Law	3
			6
Select fro	om an	tives y 1000- or 2000-level Criminal Justice ot Crimj 1100 and Crimj 1151).	15
	_	ny 1000- or 2000-level courses.)	21
		ationthe courses listed above)	22
Total Cre	edits F	Required	64

CERTIFICATE

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Engli	1101	English Composition I	3
Pol S		American Politics	
Psych	1100	General Psychology	3
Socio	1100	Introduction to Sociology	3

Omm	1100	THE COUNTY TO CHITIMAN COSTICE	0
Crimj	1145	Introduction to Homeland Security	3
Crimj	1146	Introduction to Border, Transportation	
		and Physical Security	3
Crimj	1147	Introduction to Domestic and	
		International Terrorism	3
Crimj	1148	Emergency Management	3
Crimj	1151	Constitutional Law	3
Crimj	1152	Criminal Law	3
Engli	1101	English Composition I	3
Socio	1110	Introduction to Globalization	3
Socio	2215	Racial and Ethnic Relations	3

Dental Hygiene

AAS Degree

The Dental Hygiene program prepares its graduates to provide comprehensive oral health care services in a variety of settings. Upon successful completion of the program and passing of the National Dental Hygiene Examination and Regional Board Examination, graduates will be eligible to apply for mandatory state licensure. This degree program consists of a minimum of 83 credits in general education and program requirements. The following list contains the required courses.

PROGRAM REQUIREMENTS Code 3117

Oode or	17	
Dehyg	1101	Principles in Dental Hygiene I3
Dehyg	1102	Principles in Dental Hygiene II2
Dehyg	1105	Dental Materials/Expanded Functions3
Dehyg		Dental Radiology I2
Dehyg		Dental Tooth Anatomy and Morphology2
Dehyg	1120	Preclinical Dental Hygiene I1
Dehyg	1121	Clinical Dental Hygiene I1
Dehyg	1125	Head and Neck Anatomy: Histology
		and Embryology2
Dehyg	1135	Applied Nutrition and Biochemistry
		for the Dental Hygienist2
Dehyg	1136	General and Oral Pathology2
Dehyg		Medical Emergencies in a Dental Office1
Dehyg		Dental Hygiene Theory I2
Dehyg		Dental Hygiene Theory II2
Dehyg		Periodontics I2
Dehyg		Periodontics II2
Dehyg	2213	Dental Radiology II2

Dehyg		Clinical Dental Hygiene II2	Di
Dehyg		Clinical Dental Hygiene III2	AA
Dehyg	2224	Clinical Dental Hygiene IV2	Ra
Dehyg		Review of Dental Literature1	dia
Dehyg	2232	Community Dental Health I2	inc
Dehyg		Community Dental Health II2	pro
Dehyg	2235	Dental Pharmacology and Local	ed
		Anesthetics2	COI
Dehyg	2245	Ethics and Jurisprudence: Practice	US
		Management for the Dental	aco
		Hygienist2	Ra
- Anat&	AND	Human Anatomy and Physiology I4	AA
─ Anat&		Human Anatomy and Physiology II4	PF
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_ Anat&	15/1	Anatomy and Physiology with	Dn
	A N I D	Cadaver I4	Dn
A+0	AND	Anathanas and Dissaint and state	Dn
└ Anat&	15/2	Anatomy and Physiology with	Dn
Ol:	1011	Cadaver II	Dn
Chemi		General Chemistry5	Dn
Chara:	OR	Drive similar of Chamistur I	Dn
└ Chemi		Principles of Chemistry I	Dn
Engli Math		English Composition 13 Mathematics for Health Sciences3	Dn
Math			D.,,
Micro		Microbiology	Dn
Psych Socio		General Psychology	Dn
		Introduction to Sociology3	
Speec	1100	Fundamentals of Speech Communication3	Dn
			Dn
		70	
		78	
		ation5	Dn
Two cred	dits in e	ation5 either a Global/Multicultural Studies or a	Dn Dn
Two cred	dits in e porary	either a Global/Multicultural Studies or a Life Skills course, and three additional	Dn
Two cred	dits in e porary	ation5 either a Global/Multicultural Studies or a	Dn Dn Dn
Two credits in	dits in e porary n Hum	ation	Dn Dn Dn Dn
Two credits in	dits in e porary n Hum	either a Global/Multicultural Studies or a Life Skills course, and three additional	Dn Dn Dn
Two credits in	dits in e porary n Hum	ation	Dn Dn Dn Dn
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Diagnostic Medical Imaging Radiography

AAS Degree, Two Certificates

Radiologic Technology is a 24-month program in diagnostic medical radiography (X-ray technology), including extensive clinical experience. The degree program consists of a total of 74 credits in general education and program requirements. The following list contains the required courses, some of which may be used to meet general education requirements. Fully accredited by the Joint Review Committee on Education in Radiologic Technology.

AAS DEGREE PROGRAM REQUIREMENTS Code 3172

	Code 31	72	
	Dmir	1111	Clinical Education I2
	Dmir	1112	Clinical Education II2
	Dmir	1113	Clinical Education III2
	Dmir		Radiographic Equipment4
	Dmir		Image Formation and Evaluation4
	Dmir	1131	•
	Dmir	1132	Radiographic Procedures II3
	Dmir		Radiographic Procedures III3
	Dmir		Ethics and Law in Diagnostic Medical Imaging1
	Dmir	1151	Basic Pharmacology1
	Dmir	2201	Radiation Physics, Biology and Protection3
	Dmir	2211	
	Dmir		Clinical Education V
	Dmir		Clinical Education VI
	Dmir		Basic Pathophysiology3
	Dmir		Quality Management in Diagnostic
	Diliii		Imaging2
	Dmir		Critical Radiographic Image Evaluation3
_	Anat&	1500	Survey of Human Anatomy and Physiology4
		OR	
	Anat&	1551 OR	Human Anatomy and Physiology I4
_	Anat&	1571	Anatomy and Physiology with Cadaver I4
	Cis	1110	Using Computers: An Introduction2
	Engli	1101	English Composition I3
	Engli	1102	English Composition II3
	Hlths	1110	Biomedical Terminology4
_	Math		Mathematics for Health Sciences3
_	Math	1115	Technical Mathematics I3
_	Speec	1100	Fundamentals of Speech
		OR	Communication3
	Speec	1120 OR	Small-Group Communication3
_	Speec		Introduction to Business
	-		Communication3
			68
			ation6 the courses listed above)
	•		•
	iotal Cr	edits F	Required74

CERTIFICATES The Diagnostic Medical Imaging Radio Technology (DMIR) program at College of DuPage is a three sensester certificate program that will allow graduates to become cartificate by the American Registry of Radiologic Technologists and practice as Radiation Therapy Technologists. It requires 39 credits in the courses listed below. Code 4174 Dmir 2101 Cross-sectional Anatomy. 2 201 inicial Practice of Radiation Therapy. 3 Dmir 2112 Clinical Practice of Radiation Therapy. 4 Dmir 2307 Principles and Practice of Radiation Therapy and Technology and Practice of Radiation Therapy Improved the College of DuPage is a new semister schemed program that is designed to provide students with the necessary skills to become extitled by the American Registry of Radicologic Technologists and meet the Mammography Quality Management and Instrumentation 1. 200 Procedures . 200 Procedures . 201 Diagnostic Medical Imaging Sonography AS Degree, Two Certificates and Procedures and Obstatrics (Synecology Hands-on Scanning Lab III.) 202 Procedures . 202 Drini 2203 Mammography Quality Management and Instrumentation 1. 203 Drini 2204 Mammography Quality Management and Instrumentation 2. 20 Drini 2205 Rest Anatomy, Physiology and Procedures . 21 Drini 2206 Mammography Quality Management and Instrumentation 1. 220 Drini 2206 Register of Procedures . 220 Drini 2207 Drini						
Dimis 113 Clinical Education III 3 3 3 3 3 3 3 3 3	CERTIF	FICATES				
(DMIR) program at College of DuPage is a three-semester certificate program that will allow gradulests to become certified by the American Registry of Radiologic Technologists and practice as Radiation Therapy Technologists. It requires 39 credits in the courses listed below. Code 417 p. 20 p.	The Dia	gnostic Medical Imaging Radio Technology		_		
certificate program that will allow graduates to become certified by the American Registry of Radiologic Technologists and practice as Radiation Therapy Technologists and practice as Radiation Therapy 1. Driis 2102 Pathophysiology for Radiation Therapy 3. Driis 2112 Fundamentals of OBIGYN II 3. 3 Driis 1123 Abdomen/Superficial Structures II 2. Driis 2102 Pathophysiology for Radiation Therapy 3. Driis 2113 Clinical Practice II 3. Driis 2111 Clinical Practice II 3. Driis 2111 Clinical Practice II 3. Driis 2113 Clinical Practice of Radiation Therapy II. Driis 2103 Principles and Practice of Radiation Therapy III. Driis 2301 Radiation Therapy Physics 3. Driis 2311 Radiation Biology and Protection 4. Therapy II. Driis 2311 Radiation Biology and Protection 4. Therapy II. The Mammography certificate at College of DuPage is a one-semester, advanced program that is designed to provide students with the necessary skills to become certified by the American Registry of Radiologic Technologists and meet the Mammography Quality Management and Instrumentation 2. Driis 2203 Mammography Principles and Procedures 2. Driis 2204 Mammography Principles and Procedures 2. Driis 2205 Rosat Anatomy, Physiology and Protection C. 2. Driis 2206 Mammography Principles and Procedures 2. Driis 2207 Mammography Principles and Procedures 2. Driis 2208 Mammography Principles and Procedures 2. Driis 2209 Mammography Principles and Procedures 2. Driis 2201 Mammography Principles and Procedures 2. Driis 2204 Mammography Principles and Procedures 2. Driis 2205 Rosat Anatomy, Physiology and Procedures 2. Driis 2206 Mammography Principles and Procedures 2. Driis 2207 Mammography Principles and Procedures 3. Driis 2208 Mammography Principles and Procedures 3. Driis 2209 Mammography Principles and Procedures 3. Driis 2209 Mammography Principles and Procedures 3. Driis 2200 Mammogr			r			
Technologists and practice as Padietion Therapy 12 Technologists. It requires 39 credits in the courses listed below. Code 417. 2						
Driis 2102 Pathophysiology for Radiation Therapy 3 Driis 1122 Fundamentals of OB(GYN II 3 Jan 2 Driis 2102 Pathophysiology for Radiation Therapy 3 Driis 2102 Pathophysiology for Radiation Therapy 3 Driis 2110 Clinical Practice II 3 Driis 1132 Abdomen/Superficial Structures II 1 Driis 1134 Case Study Oritique II 1 Driis 1 Driis 1134 Case Study Oritique II 1 Driis 1 Driis 1134 Abdomen/Superficial Structures II 1 Driis 1 Driis 1 Abdominal/Superficial Structures II 1 Driis 1 Driis 1 Abdominal/Superficial Structures II 1 Driis 1 Driis 1 Abdominal/Superficial Structures II 1 Driis 1 Driis 1 Abdominal/Superficial Structures II II I I I I I I I I I I I I I I I I	certified	by the American Registry of Radiologic				
Drills 2101 Cross-sectional Anatomy 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Technolo	ogists and practice as Radiation Therapy				
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Dmir 2102 Pathophysiology for Radiation Therapy 3 Dmir 2103 Operational Issues in Radiation Therapy 3 Dmir 2112 Clinical Practice II 3 Dmir 2112 Clinical Practice II 3 Dmir 2112 Clinical Practice II 3 Dmir 2113 Clinical Practice II 3 Dmir 2112 Clinical Practice II 3 Dmir 2113 Clinical Practice II 3 Dmir 2113 Clinical Practice II 3 Dmir 2301 Principles and Practice of Radiation Therapy 4 Dmir 2302 Principles and Practice of Radiation Therapy II 4 Dmir 2303 Principles and Practice of Radiation Therapy II 4 Dmir 2310 Radiation Therapy Physics 3 Dmir 2311 Radiation Biology and Protection 4 Dmir 2312 Quality Management in Radiation Therapy Physics 3 Dmir 2314 Radiation Biology and Protection 4 Dmir 2312 Quality Management in Radiation Therapy 3 The Mammography certificate at College of DuPage is a one-semester, advanced program that is designed to provide students with the necessary skills to become certified by the American Registry of Radiologic Technologists and meet the Mammography Quality Standards Act Quidelines. It requires seven credits in the courses listed below. Code 4177 Dmir 2200 Clinical Applications of Mammography 2 Dmir 2202 Breast Anatomy, Physiology and Pathology 1 Dmir 2203 Mammography Principles and Procedures 2 Dmir 2204 Mammography Principles and procedures 2 Dmir 2205 Mammography Principles and procedures 2 Dmir 2206 Mammography Principles and procedures 2 Dmir 2207 Mammography Certificates 2 Dmir 2208 Mammography Principles and Procedures 2 Dmir 2209 Mammography Certificates 2 Dmir 2201 Mammography Certificates 2 Dmir 2202 Mammography Certificates 2 Dmir 2203 Mammography Certificates 2 Dmir 2204 Mammography Certificates 2 Dmir 2205 Mammography Certificates 2 Dmir 2206 Mammography Certificates 2 Dmir 2207 Mam		Code 4174		_		•
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Dmir 2111 Clinical Practice II	Dmir					
Dmir 2110 Clinical Practice III	Dmir			_		
Dmir 2113 Clinical Practice III						·
Dmir 2301 Principles and Practice of Radiation Therapy I Dmir 2302 Principles and Practice of Radiation Therapy II Dmir 2303 Principles and Practice of Radiation Therapy III Dmir 2303 Principles and Practice of Radiation Therapy III Dmir 2311 Radiation Flortarpy Physics Dmir 2311 Radiation Biology and Protection Dmir 2311 Radiation Biology and Protection The Ammography certificate at College of DuPage is a one-semester, advanced program that is designed to provide students with the necessary skills to become certified by the American Registry of Radiologic Tachnologists and meet the Mammography Quality Standards Act guidelines. It requires seven credits in the courses listed below. Code 4177 Dmir 2200 Clinical Applications of Mammography Dmir 2203 Mammography Principles and Procedures Diagnostic Medical Imaging Sonography AAS Degree, Two Certificates Diagnostic Medical Imaging Sonography AAS Degree, Two Certificates Diagnostic Medical Imaging Sonography is a 24-month program that includes extensive didactic and clinical applications in the specialities of general and vascular sonography. Clinical applications include Abdominal/Superficial Structures and Obstetrics/Gynecology Hands-on Scanning Lab II. Dmis 2108 Abdominal/Superficial Structures and Obstetrics/Gynecology Hands-on Scanning Lab II. Dmis 2200 Vascular Hemodynamics and Physics - Scanning Lab II. Dmis 2201 Abdominal and Peripheral Aterial Dmis 2212 Clinical Education-Vascular Imaging II. Dmis 2221 Clinical Education-Vascular Imaging II. Dmis 2223 Cerebrovascular Ultrasound Hands-on Scanning Lab II. Dmis 2224 Abdominal and Peripheral Venous Hands-on-Scanning Lab II. Dmis 2226 Clinical Superficial Structures and Obstetrics/Gynecology Hands-on Scanning Lab II. Dmis 2200 Vascular Hemodynamics and Physics Dmis 2213 Clinical Education-Vascular Imaging II. Dmis 2221 Clinical Education-Vascular Imaging II. Dmis 2222 Clinical Education-Vascular Imaging II. Dmis 2223 Clinical Education-Vascular Imagin				Dillio	1131	
Therapy I Drais Therapy I Drais Therapy I 2302 Principles and Practice of Radiation Therapy III 4 Drais 2303 Principles and Practice of Radiation Therapy III 4 Drais 2304 Principles and Practice of Radiation Therapy III 4 Drais 2305 Principles and Practice of Radiation Therapy III 4 Drais 2310 Radiation Therapy Physics 3 Drais 2311 Radiation Biology and Protection 4 Drais 2312 Quality Management in Radiation Therapy 33 The Mammography Certificate at College of DuPage is a one-semester, advanced program that is designed to provide students with the necessary skills to become certified by the American Registry of Radiologic Technologists and meet the Mammography Quality Standards Act guidelines. It requires seven credits in the courses listed below. Code 4177 Drair 2202 Breast Anatomy, Physiology and Pathology 1 Drais 2203 Mammography Principles and Priocedures 2204 Mammography Principles and Priocedures 2204 Mammography Principles and Procedures 2204 Mammography Quality Management and Instrumentation 2 2305 Drais 2206 Mammography Principles and Procedures 2306 Drais 2207 Mammography Principles and Procedures 2407 Drais 2208 Breast Anatomy, Physiology and Pathology 1 Drais 2209 Mammography Principles and Procedures 250 Drais 2200 Mammography Principles and Procedures 260 Drais 2200 Mammography Rouality Management and Instrumentation 2 270 Drais 2200 Mammography Scalaria Induction steenish education and program requirements. All general educations include Abdominal/Superficial Structures and Obstetrics/Gynecology Hands-on Scanning Lab 1154 Abdominal/Superficial Structures and Obstetrics/Gynecology Hands-on Scanning Lab 1160 Legal Aspects of Health Care in Scanning Lab 1160 Legal Aspects of Health Care in Scanning Lab 1160 Legal Aspects of Health Care in Scanning Lab 1160 Legal Aspects of Health Care in Scanning Lab 1160 Legal Aspects of Health Care in Scanning Lab 1160 Legal Aspects of Health Care in Scanning Lab 1160 Legal Aspects of Health Care in Scanning Lab 1160 Legal Aspects of			3			
Diris 2002 Principles and Practice of Radiation Therapy III	Dmir			Dmis	1152	
Therapy II			ļ	Dillio	1102	
Dmis 2309 Principles and Practice of Radiation Therapy III	Dmir					
Therapy III	D!		ŀ	Dmis	1153	
Dmir 2310 Radiation Therapy Physics 3 Dmir 2311 Radiation Therapy Physics 3 Dmir 2311 Radiation Biology and Protection 4 Dmir 2312 Quality Management in Radiation Therapy 3 The Mammography certificate at College of DuPage is a one-semester, advanced program that is designed to provide students with the necessary skills to become certified by the American Registry of Radiologic Technologists and meet the Mammography Quality Dmis 2203 Cerebrovascular Ultrasound 2 Standards Act guidelines. It requires seven credits in the courses listed below. Code 4177 Dmir 2000 Clinical Applications of Mammography 2 Dmir 2203 Mammography Principles and Pathology 1 Dmir 2204 Mammography Quality Management and Instrumentation 2 Dmir 2204 Mammography Quality Management and Instrumentation songraphy. Standards Medical Imaging Sonography AAS Degree, Two Certificates Diagnostic Medical Imaging Sonography and vascular imaging techniques. The program consists of a total of 88 credits in general educations course smust be completed prior to admission to the Sonography program. AAS DEGREE PROGRAM REQUIREMENTS Code 3142 Dmis 1100 Introduction to Diagnostic Medical Sonography Physics and Instrumentation 3 Dmis 1101 Sonographic Physics and Instrumentation 3 Dmis 1102 Sonographic Physics and Instrumentation 3 Dmis 1101 Instrumentation 3 Dmis 1102 Sonographic Physics and Instrumentation 3 Dmis 1101 Instrumentation 3 Dmis 1102 Introduction to Diagnostic Medical Imaging Sonography of a 24-month program in the specialities of general educations accourse must be completed prior to admission to the Sonography program. APPOGRAM REQUIREMENTS Code 3142 Dmis 1101 Instrumentation II. 3 Dmis 1102 Introduction to Diagnostic Medical Imaging Sonography (Ultrasound) is a 15-month advanced certificate program designed for graduates of accredited Medical Imaging Sonogram has a 1-month advanced certificate program designed for graduates of accredited Medical Imaging Corporams in the special program in	Dmir			Diiilo	1100	
Dmir 2311 Radiation Biology and Protection	D:	I nerapy III	.			
Dimir 2312 Quality Management in Radiation neessary skills to become certified by the American Registry of Radiologic Technologists and meet the Mammography Quality Standards Act guidelines. It requires seven credits in the courses listed below. Code 4177 pmir 2200 Clinical Applications of Mammography2 Dmir 2200 Ereast Anatomy, Physiology and Pathology				Dmis	1154	
Therapy			ŀ			
The Mammography certificate at College of DuPage is a one-semester, advanced program that is designed to provide students with the necessary skills to become certified by the American Registry of Radiologic Technologists and meet the Mammography Quality Standards Act guidelines. It requires seven credits in the courses listed below. Code 4177 Dmir 2200 Clinical Applications of Mammography2 Dmir 2200 Breast Anatomy, Physiology and Pathology	DMIL	· -)			
one-semester, advanced program that is designed to provide students with the necessary skills to become certified by the American Registry of Radiologic Certificatory and Review Disagnostic Medical Imaging Principles and Procedures P		ттегару)	Dmis	1160	
one-semester, advanced program that is designed to provide students with the necessary skills to become certified by the American Registry of Radiologic Certificatory and Review Disagnostic Medical Imaging Principles and Procedures P	The Mai	mmography cortificate at College of DuPage is a				•
provide students with the necessary skills to become certified by the American Registry of Radiologic Technologists and meet the Mammography Quality Standards Act guidelines. It requires seven credits in the courses listed below. Code 4177 Dmir 2200 Clinical Applications of Mammography				Dmis	2200	
certified by the American Registry of Radiologic Technologists and meet the Mammography Quality Standards Act guidelines. It requires seven credits in the courses listed below. Code 4177 Dmir 2000 Clinical Applications of Mammography. 2 Dmir 2002 Breast Anatomy, Physiology and Pathology. 1 Dmir 2202 Breast Anatomy, Physiology and Pathology. 1 Dmir 2203 Mammography Principles and Procedures 2 Dmir 2204 Mammography Quality Management and Instrumentation 2 Diagnostic Medical Imaging Sonography AAS Degree, Two Certificates Diagnostic Medical Imaging Sonography AAS Degree, Two Certificates Diagnostic Medical Imaging Sonography Colinical applications in the specialities of general and vascular sonography. Clinical applications in the specialities of general and vascular sonography. Clinical applications in the Specialities of general and vascular imaging techniques. The program consists of a total of 88 credits in general education and program requirements. All general educations courses must be completed prior to admission to the Sonography program. AAS DEGREE PROGRAM REQUIREMENTS Code 3142 Dmis 1101 Introduction to Diagnostic Medical Sonography. 3 Dmis 1102 Sonographic Physics and Instrumentation I. 3 Dmis 1102 Sonographic Physics and Instrumentation II. 3 Dmis 1105 Introduction to Diagnostic Medical Imaging programs in Instrumentation II. 3 Dmis 1106 Introduction to Diagnostic Medical Imaging Sonography (Ultrasound) is a 15-month advanced certificate program designed for graduates of accredited Medicial Imaging, etc. Classes are				Dmis		
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Standards Act guidelines. It requires seven credits in the courses listed below. Code 4177 Dmir 200 Clinical Applications of Mammography				Dmis	2204	Abdominal and Peripheral Venous2
Courses listed below. Code 4177 Dmir 200 Clinical Applications of Mammography. 2 Dmir 2202 Breast Anatomy, Physiology and Pathology. 1 Dmir 2203 Mammography Principles and Procedures 2 Dmir 2204 Mammography Quality Management and Instrumentation 2 Dmir 2204 Mammography Quality Management and Instrumentation 2 Dmir 2004 Mammography Quality Management and Instrumentation 2 Dmis 2204 Mammography Quality Management and Instrumentation 2 Dmis 2205 Medical Imaging Sonography AAS Degree, Two Certificates Diagnostic Medical Imaging Sonography is a 24-month program that includes extensive didactic and clinical applications in the specialities of general and vascular sonography. Clinical Structures, Obstetrics/Gynecology and vascular imaging techniques. The program consists of a total of 88 credits in general education and program requirements. All general educations courses must be completed prior to admission to the Sonography program. AAS DEGREE PROGRAM REQUIREMENTS Code 3142 Dmis 1101 Introduction to Diagnostic Medical Sonography Principles and Instrumentation I				Dmis		
Dmir 2200 Clinical Applications of Mammography2 Dmir 2202 Breast Anatomy, Physiology and Pathology		- · · · · · · · · · · · · · · · · · · ·		Dmis	2213	Clinical Education-Vascular Imaging II3
Dmir 2202 Breast Anatomy, Physiology and Pathology)	Dmis	2221	Abdominal and Peripheral Arterial
Pathology			-			
Dmir 2203 Mammography Principles and Procedures	D			Dmis	2223	
Procedures	Dmir					•
Dmis 2204 Mammography Quality Management and Instrumentation 2 Diagnostic Medical Imaging Sonography AAS Degree, Two Certificates Diagnostic Medical Imaging Sonography is a 24-month program that includes extensive didactic and clinical applications in the specialities of general and vascular sonography. Clinical applications include Abdominal/Superficial Structures, Obstetrics/Gynecology and vascular imaging techniques. The program consists of a total of 88 credits in general education and program requirements. All general educations courses must be completed prior to admission to the Sonography program. AAS DEGREE PROGRAM REQUIREMENTS Code 3142 Dmis 1100 Introduction to Diagnostic Medical Sonography)	Dmis	2224	
Diagnostic Medical Imaging Sonography AAS Degree, Two Certificates Diagnostic Medical Imaging Sonography is a 24-month program that includes extensive didactic and clinical applications in the specialities of general and vascular sonography. Clinical applications include Abdominal/Superficial Structures, Obstetrics/Gynecology and vascular imaging techniques. The program consists of a total of 88 credits in general education and program requirements. All general educations courses must be completed prior to admission to the Sonography program. AAS DEGREE PROGRAM REQUIREMENTS Code 3142 Dmis 1100 Introduction to Diagnostic Medical Sonographic Physics and Instrumentation I	Dmir					
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Anat & 1500 Survey of Human Anatomy and Physiology				Dmis	2285	
AAS Degree, Two Certificates Diagnostic Medical Imaging Sonography is a 24-month program that includes extensive didactic and clinical applications in the specialities of general and vascular sonography. Clinical applications include Abdominal/Superficial Structures, Obstetrics/Gynecology and vascular imaging techniques. The program consists of a total of 88 credits in general education and program requirements. All general educations courses must be completed prior to admission to the Sonography program. AAS DEGREE PROGRAM REQUIREMENTS Code 3142 Dmis 1100 Introduction to Diagnostic Medical Sonography	Diagno	ostic Medical Imaging Sonography				
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program that includes extensive didactic and clinical applications in the specialities of general and vascular sonography. Clinical applications include Abdominal/Superficial Structures, Obstetrics/Gynecology and vascular imaging techniques. The program consists of a total of 88 credits in general education and program requirements. All general educations courses must be completed prior to admission to the Sonography program. AAS DEGREE PROGRAM REQUIREMENTS Code 3142 Dmis 1100 Introduction to Diagnostic Medical Sonography	•			F1:	4404	
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and vascular imaging techniques. The program consists of a total of 88 credits in general education and program requirements. All general educations courses must be completed prior to admission to the Sonography program. AAS DEGREE PROGRAM REQUIREMENTS Code 3142 Dmis 1100 Introduction to Diagnostic Medical Sonography						
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AAS DEGREE PROGRAM REQUIREMENTS Code 3142 Dmis 1100 Introduction to Diagnostic Medical Sonography	oomplot	od prior to daminosiom to the corregraphy program.		Snooc	_	Small-Group Communication 3
PROGRAM REQUIREMENTS Code 3142 Dmis 1100 Introduction to Diagnostic Medical Sonography	AAS D	EGREE		opeec	1120	
Code 3142 Dmis 1100 Introduction to Diagnostic Medical Sonography						
Dmis 1100 Introduction to Diagnostic Medical Sonography						
Sonography				ı nree cr	edit ho	ours from the Humanities category
Dmis 1101 Sonographic Physics and Instrumentation I	טוווים		R	Total Cr	edits I	Required88
Dmis 1102 Sonographic Physics and Instrumentation II	Dmis		•			
Dmis 1102 Sonographic Physics and Instrumentation II	טוווט		3			
Instrumentation II	Dmis		•			
Dmis 1105 Introduction to Pathophysiology Hadiology, Nuclear Medicine, Nursing, etc. Classes are			3			
	Dmis					

For Sonographers2

conducted on Tuesday, Wednesday and Thursday

evenings with occasional weekends. Clinical education is provided on weekdays at assigned clinical affiliates. Upon successful completion, graduates are eligible to take the American Registry of Diagnostic Medical Sonographers examination in OB/GYN, Abdomen, Superficial Structures and Physics. This certificate program consists of 45 credit hours in the required courses listed below. Code 4142

Medical Sonography	Dmis	1100	Introduction to Diagnostic
Instrumentation I			Medical Sonography3
Dmis 1102 Sonographic Physics and Instrumentation II	Dmis	1101	
Instrumentation II			
Dmis 1111 Clinical Education I	Dmis	1102	
Dmis1112Clinical Education II3Dmis1113Clinical Education III3Dmis1114Clinical Education IV3Dmis1120Sonographic Cross-Sectional Anatomy3Dmis1121Fundamentals of OB/GYN I3Dmis1122Fundamentals of OB/GYN II3Dmis1131Abdomen/Superficial Structures I2Dmis1132Abdomen/Superficial Structures II2Dmis1140Fundamentals of Breast Sonography2Dmis1141Case Study Critique I1Dmis1142Case Study Critique II1Dmis1151Abdominal/Superficial Structures and Obstetrics/Gynecology Hands-on Scanning Lab I1Dmis1152Abdominal/Superficial Structures and Obstetrics/Gynecology Hands-on Scanning Lab II1Dmis1154Abdominal/Superficial Structures and Obstetrics/Gynecology Hands-on Scanning Lab IV1Dmis1160Legal Aspects of Health Care in Sonography2Dmis2280Sonographic Physics Registry and Review1Dmis2285Clinical Sonographic Registry and			
Dmis 1113 Clinical Education III			
 Dmis 1114 Clinical Education IV			
 Dmis 1120 Sonographic Cross-Sectional Anatomy3 Dmis 1121 Fundamentals of OB/GYN I	Dmis		
Dmis 1121 Fundamentals of OB/GYN I	Dmis		
 Dmis 1122 Fundamentals of OB/GYN II	Dmis		
 Dmis 1131 Abdomen/Superficial Structures I	Dmis		
 Dmis 1132 Abdomen/Superficial Structures II	Dmis		
Dmis 1140 Fundamentals of Breast Sonography	Dmis		
Dmis 1141 Case Study Critique I	Dmis	1132	Abdomen/Superficial Structures II2
Dmis 1142 Case Study Critique II	Dmis		
Dmis 1151 Abdominal/Superficial Structures and Obstetrics/Gynecology Hands-on Scanning Lab I	Dmis	1141	Case Study Critique I1
and Obstetrics/Gynecology Hands-on Scanning Lab I	Dmis	1142	Case Study Critique II1
Hands-on Scanning Lab I	Dmis	1151	
Dmis 1152 Abdominal/Superficial Structures and Obstetrics/Gynecology Hands-on Scanning Lab II			
and Obstetrics/Gynecology Hands-on Scanning Lab II			
Hands-on Scanning Lab II	Dmis	1152	Abdominal/Superficial Structures
Dmis 1153 Abdominal/Superficial Structures and Obstetrics/Gynecology Hands-on Scanning Lab III			
and Obstetrics/Gynecology Hands-on Scanning Lab III			Hands-on Scanning Lab II1
Hands-on Scanning Lab III	Dmis	1153	Abdominal/Superficial Structures
Dmis 1154 Abdominal/Superficial Structures and Obstetrics/Gynecology Hands-on Scanning Lab IV			
and Obstetrics/Gynecology Hands-on Scanning Lab IV			Hands-on Scanning Lab III1
Hands-on Scanning Lab IV	Dmis	1154	Abdominal/Superficial Structures
Dmis 1160 Legal Aspects of Health Care in Sonography			
Dmis 1160 Legal Aspects of Health Care in Sonography			Hands-on Scanning Lab IV1
Sonography	Dmis	1160	Legal Aspects of Health Care in
Review1 Dmis 2285 Clinical Sonographic Registry and			Sonography2
Review1 Dmis 2285 Clinical Sonographic Registry and	Dmis	2280	Sonographic Physics Registry and
Dmis 2285 Clinical Sonographic Registry and			
	Dmis	2285	Clinical Sonographic Registry and
1 16 V 16 VV			

The Diagnostic Medical Vascular Sonography program is an extension of the current Diagnostic Medical Imaging program designed to provide trained sonographers in the specialty of vascular imaging for the clinical institutions and clinics in the Chicago area. This certificate program consists of 18 credits in the required courses listed below. Code 4143

Dmis	2200	Vascular Hemodynamics and Physics	2
Dmis	2201	Abdominal and Peripheral Arterial	3
Dmis	2203	Cerebrovascular Ultrasound	2
Dmis	2204	Abdominal and Peripheral Venous	2
Dmis	2212	Clinical Education-Vascular Imaging I	3
Dmis	2213	Clinical Education-Vascular Imaging II	3
Dmis	2221	Abdominal and Peripheral Arterial	
		Hands-on Scanning Lab	1
Dmis	2223	Cerebrovascular Ultrasound Hands-on	
		Scanning Lab	1
Dmis	2224	Abdominal and Peripheral Venous	
		Hands-on Scanning Lab	1

Early Childhood Education and Care

AAS Degree, Six Certificates

The Early Childhood Education and Care program prepares students to enter the early childhood education and early childhood fields. Students acquire the skills, knowledge and attitudes to work with infants, toddlers, preschool and school-age children. Jobs for degree and certificate graduates are widely available in child care centers, preschools, park districts and public schools. The degree program consists of a minimum of 60 credits in general education, program requirements and electives. The following list contains the required courses.

AAS DEGREE PROGRAM REQUIREMENTS Code 3623

Ecec	1100	Introduction to the Early Childhood Profession	3		
Ecec	1101	Growth and Development of the Young	g		
Ecec	1102	Child Guidance Practices			
Ecec	1130	Methods: Discovery and the Physical World	3		
Ecec	1140	Methods: Self-Expression and the Social World			
Ecec	1151	Language and Literacy Development of the Young Child			
Ecec	2211	Child Health, Safety and Nutrition			
Ecec		Child Care Practicum			
Ecec	2251	Curriculum Planning for the Young Child	d3		
Ecec	2252	Child/Family/Community Relations			
		and Resources			
Ecec	2260	Early Childhood Professional			
			34		
Progran	n Elec	tives	4		
	Electives				
		ation20 the courses listed above)	to 24		
Total Cr	Total Credits Required60 to 68				

CERTIFICATES

Ecec

The Early Childhood Education and Care certificate requires 34 credits in the courses listed below. Code 4623 Ecec 1100 Introduction to the Early Childhood Profession.....3 Ecec 1101 Growth and Development of the Young Child3 1102 Child Guidance Practices3 Ecec Ecec 1130 Methods: Discovery and the Physical World3 Ecec 1140 Methods: Self-Expression and the Social World......3 Ecec 1151 Language and Literacy Development of the Young Child3 2211 Child Health, Safety and Nutrition3 Ecec Ecec 2220 Child Care Practicum4 Ecec 2251 Curriculum Planning for the Young Child......3 Ecec 2252 Child/Family/Community Relations and Resources.....3

2260 Early Childhood Professional3

The Infant, Toddler and Two-Year-Old Child Care	
certificate. Students choose this certificate to gain spe	cific
knowledge and skills in this early childhood specialty.	
Students may have previously received an early childho	bod
certificate or degree or may choose this certificate to be	gin
their early childhood education. This certificate requires	15
credits in the courses listed below. Code 4624	

Ecec	1101	Growth and Development of the Young	
		Child	3
Ecec	1102	Child Guidance Practices	3
Ecec	1116	Care of the Infant, Toddler and	
		Two-Year-Old Child I	3
Ecec	1117	Care of the Infant, Toddler and	
		Two-Year-Old Child II	3
Ecec	2211	Child Health, Safety and Nutrition	3

The Administration of an Early Childhood Center certificate. Students choose this certificate to gain specific knowledge and skills in this early childhood specialty. Students should have completed an early childhood certificate or degree or some other course of college study. This certificate requires 21 credits in the courses listed below. Code 4625

Ecec	1101	Growth and Development of the Young Child	.3
Ecec	1102	Child Guidance Practices	
Ecec	2211	Child Health, Safety and Nutrition	.3
Ecec	2251	Curriculum Planning for the Young Child	.3
Ecec	2254	Administration of an Early Childhood Center — Program Operations	.3
Ecec	2255	Administration of an Early Childhood Center — Practices and Procedures	
Ecec	2256	Administration of an Early Childhood Center — Staff, Families and	
		Children	.3

The Family Child Care Provider certificate. Students choose this certificate to gain specific knowledge and skills in this early childhood specialty. Students may have previously received an early childhood certificate or degree or may choose this certificate to begin their early childhood education. This certificate requires 15 credits in the courses listed below. Code 4627

PROGRAM REQUIREMENTS

Ecec	1101	Growth and Development of the		
		Young Child	3	
Ecec	1120	Family Child Care Management	2	
Ecec	1121	Family Child Care Curriculum and		
		Guidance	2	
Ecec	2211	Child Health, Safety and Nutrition	3	
			10	
Program Electives				

The School-Age Child Care certificate. Students choose this certificate to gain specific knowledge and skills in this early childhood specialty. Students may have previously received an early childhood certificate or degree or may choose this certificate to begin their early childhood education. This certificate requires 16 credits in the courses listed below. Code 4628

PROGRAM REQUIREMENTS

Progran	Program Electives4				
and Resources3					
Ecec	2252	Child/Family/Community Relations			
Ecec	2228	Activities for School-Age Children	2		
Ecec	2227	Guidance of the School-Age Child	2		
Ecec	2226	Development of the School-Age Child	2		
Ecec	2211	Child Health, Safety and Nutrition	3		

The Multicultural Education and Care for the Young **Child certificate**. Students choose this certificate to gain specific knowledge and skills working with diverse populations of children. Students will have previously received early childhood credits or may choose this certificate to begin their Early Childhood Education and Care studies. This certificate requires 14 credits in the courses listed below. Code 4629

Ecec	1101	Growth and Development of the	
		Young Child	3
Ecec	1102	Child Guidance Practices	3
Ecec	1161	Multicultural Curriculum for the	
		Young Child	2
Ecec	1162	Multicultural Perspectives in Child	
		Development and Education	2
Ecec	1163	Practicum: At-Risk Early Childhood	
		Programs	1
Ecec	2252	Child/Family/Community Relations	
		and Resources	3

Electro-Mechanical Technology

Two AAS Degrees, Three Certificates

The degree program prepares students to enter the industrial and manufacturing workplace with knowledge and skill levels in three areas: programmable controllers, process control instrumentation and mechanical maintenance. It consists of skills training in all three areas to provide the student with meaningful learning experiences to enter the workplace as a viable part of a plant engineering group, and/or maintenance or repair technician team. This program stresses both the electrical/electronic and mechanical aspect of industrial and manufacturing processes, and it is also designed for those individuals who are presently employed in industrial maintenance or plant engineering and are seeking skills upgrading and/or cross training.

The Electro-Mechanical Technology degree program consists of a minimum of 65 credits in general education and program requirements. The following list contains the required courses.

AAS DEGREE PROGRAM REQUIREMENTS Code 3957

Elmec	1101	Survey of Automation	3
Elmec	1110	Motor Fundamentals	3
Elmec	1130	Industrial Electricity	3
Elmec	1400	Maintenance Management Systems	3
Elmec	1420	Drive Components	2
Elmec	2410	Programmable Controller II (PLC II)	3
Elmec	2510	Process and Automation Controls	3
Elect	1100	Electricity and Electronics	
		Fundamentals	2

Elect	1120	Electronic Documentation2	Manuf	2280	Industrial Safety2
Manuf	1104	Technical Mechanics2	Co-op	2860	Cooperative Education/Internship
Manuf	1141	Hydraulics and Pneumatics3	•		(Occupational)1 to 4
Manuf	1171	Introduction to Robotic Technology3	Co-op	2865	Cooperative Education/Internship —
Manuf	1180	Quality Control3			Advanced (Occupational)1 to 4
Manuf		Introduction to Programmable	Co-op	2870	Cooperative Education/Internship
		Logic Controllers3			(Transfer)1 to 4
		38			41 to 50
Progran	n Eleci	tives9	Genera	l Educ	ation18 to 22
		t nine credits from the following courses.			complete all general education requirements
Airc		Introduction to Sheet Metal2			ster hours), including two semester hours in
Elect		Circuits I3			tural Studies or Contemporary Life Skills.
Elect		Circuits II4			• •
Elect		Electronics Materials and Fabrication2	iotai Ci	realts i	Required 59 to 72
Elect		Electronic Instruments, Measurements	OEDTI		E6
		and Control3	CERTI	FICAI	E5
Elect	2255	Industrial Controls3			ng the Mechanical Maintenance
Elmec	1120	Residential Wiring3			rn skills in power trains, drive components,
Elmec		National Electrical Code3			gnment of couplings, pumps and motors,
Elmec	1410	Preventive and Predictive Maintenance3			ooting and repair of industrial components.
Elmec	2600	Motion Control: Servo and Stepper			al Maintenance certificate requires 33 credits
		Motor Application and Control2			listed below. Code 4958
Elmec		Machine Vision and Artificial Intelligence2	Elect	1100	Electricity and Electronics
Elmec	2620	Critical Thinking in Technical			Fundamentals2
		Applications2	Elmec		Survey of Automation3
Elmec		Systems Troubleshooting2	Elmec		Motor Fundamentals
Elmec	2860	Cooperative Education/Internship	Elmec		Industrial Electricity
		(Occupational)1 to 4	Elmec		National Electrical Code
Manuf		Industrial Design/CAD3	Elmec		Drive Components
Manuf		Computer Numerical Control (CNC)3	Manuf		Technical Mechanics
Weld	1100	Welding I3	Manuf Manuf		Hydraulics and Pneumatics
General	l Educ	ation18 to 22	Manuf		Machine Shop I3 Introduction to Robotic Technology3
(In addit	ion to t	the the courses listed above)	Manuf		Introduction to Programmable
Total Cr	edite F	Required65 to 69	Mariur	1130	Logic Controllers3
iotai Oi	cuito i	ioquirod	Weld	1100	Welding I3
The Elec	ctricia	n Apprenticeship degree program	vvoid	1100	Wording I
		tal of 59 to 68 credits in program	The Pro	cess (Control Instrumentation certificate trains
		and general education. This program, in			nspect, calibrate, troubleshoot and repair
		h the Joint Apprenticeship and Training			rature, pressure, flow and level
		TC) of the International Brotherhood of			instruments. This certificate requires 39
Electrica	al Work	ers (IBEW) Local Union, is open only to			ourses listed below. Code 4959
individua	als adn	nitted into the Electrician Apprenticeship			
		IBEW. This degree will fulfill the classroom	PROG	RAM I	REQUIREMENTS
compon	ent of	the IBEW/JATC apprenticeship experience.	Elect	1100	Electricity and Electronics
					Fundamentals2
PROGF	RAM F	REQUIREMENTS	Elect	1120	Electronic Documentation2
Code 39	958		Elect		Electronic Instruments, Measurements
Elect	1100	Electricity and Electronics			and Control3
		Fundamentals2	Elect	2255	Industrial Controls3
Elect	1101	Circuits I3	Elmec	1101	Survey of Automation3
Elect	1120	Electronic Documentation2	Elmec		Motor Fundamentals3
Elect		Electronics Materials and Fabrication2	Elmec	1130	Industrial Electricity3
Elect	1141	Digital Fundamentals3	Elmec		Process and Automation Controls3
Elect	1151	Electronic Devices and Applications I4	Elmec	2520	Advanced Process and Automation
Elect	2220	Electronic Instruments, Measurements			Controls3
		and Control3	Manuf		Hydraulics and Pneumatics3
Elmec		Motor Fundamentals3	Manuf		Introduction to Robotic Technology3
Elmec	1130	Industrial Electricity3	Manuf	1180	Quality Control3

Manuf

1150 National Electrical Code......3

2630 Systems Troubleshooting2

1101 Industrial Design/CAD......3

Controllers.....3

1190 Introduction to Programmable Logic

Elmec

Elmec

Manuf

Manuf

Controllers3

1190 Introduction to Programmable Logic

Program Electives2

programming and maintenance of various programmable					
controllers. This certificate requires 35 credits in the					
courses listed below. Code 4960					
Electricity and Electronics					
Fundamentals	2				
0 Electronic Documentation	2				
5 Industrial Controls	3				
1 Survey of Automation	3				
0 Motor Fundamentals	3				
0 Industrial Electricity	3				
National Electrical Code	3				
Motion Control: Servo and Stepper					
Motor Application and Control	2				
O Programmable Controller II (PLC II)	3				
4 Technical Mechanics	2				
1 Introduction to Robotic Technology	3				
0 Quality Control	3				
O Introduction to Programmable Logic					
Controllers	3				
	his certificate requires 35 credits in the delow. Code 4960 Delectricity and Electronics Fundamentals				

The **Programmable Controllers certificate** involves

programming and maintenance of various programmable

Electronics Technology

AAS Degree, Three Certificates

The Electronics Technology program offers two-year degrees and one-year specialty certificates in the electronics field. The degree program is designed to provide the student with fundamentals of electricity and electronics, including digital electronics and microcomputers, specialized manufacturing electronics, industrial automation and electronic communications. The program also includes an Electronics Engineering Technology degree for transferring students. To learn is to experience. This program emphasizes a hands-on approach to learning through projects to reinforce the theoretical material. This degree program requires a minimum of 71 credits in the courses listed below.

AAS DEGREE PROGRAM REQUIREMENTS Code 3912

Elect	1100	Electricity and Electronics			
		Fundamentals2			
Elect	1101	Circuits I3			
Elect	1102	Circuits II4			
Elect		Calculus for Electronics2			
Elect	1120	Electronic Documentation2			
Elect	1130	Electronics Materials and Fabrication2			
Elect	1141	Digital Fundamentals3			
Elect	1151	Electronic Devices and Applications I4			
Elect	1152	Electronic Devices and Applications II4			
Elect	1161	Electronic Communication I4			
Elect	1162	Electronic Communication II4			
Elect	2255	Industrial Controls3			
Cis	1400	Programming Logic and Technique4			
Physi	1201	General Physics I5			
Physi	1202	General Physics II5			
Math	1431	Precalculus I5			
Math	1432	Precalculus II: Trigonometry3			
Engli	1101	English Composition I3			
Speec	1100	Fundamentals of Speech			
		Communication3			
		65			
General Education6					

Total Credits Required 71 CERTIFICATES The Electronics Manufacturing certificate requires 32 credits as listed below. Code 4912 Elect 1100 Electricity and Electronics Fundamentals 2 Elect 1101 Circuits I 3 Elect 1120 Electronic Documentation 2 Elect 1130 Electronics Materials and Fabrication 2 Elect 1141 Digital Fundamentals 3 Elect 1151 Electronic Devices and Applications I 4 Elect 1161 Electronic Communication I 4 Elect 2112 Motor Control 3 Elect 2255 Industrial Controls 3 Elect 2273 Real-Time Systems and Programming 3 Math 1428 College Algebra with Applications 3 The Controls and Automation certificate requires 42 credits as listed below. Code 4913 Elect 1100 Electricity and Electronics Fundamentals 2
The Electronics Manufacturing certificate requires 32 credits as listed below. Code 4912 Elect 1100 Electricity and Electronics Fundamentals
credits as listed below. Code 4912 Elect 1100 Electricity and Electronics Fundamentals 2 Elect 1101 Circuits I 3 Elect 1120 Electronic Documentation 2 Elect 1130 Electronics Materials and Fabrication 2 Elect 1141 Digital Fundamentals 3 Elect 1151 Electronic Devices and Applications I 4 Elect 1161 Electronic Communication I 4 Elect 2112 Motor Control 3 Elect 2255 Industrial Controls 3 Elect 2273 Real-Time Systems and Programming 3 Math 1428 College Algebra with Applications 3 The Controls and Automation certificate requires 42 2 credits as listed below. Code 4913 2 Elect 1100 Electricity and Electronics Fundamentals 2 Elect 1101 Circuits I
Elect
Fundamentals
Elect 1101 Circuits I
Elect 1120 Electronic Documentation
Elect 1130 Electronics Materials and Fabrication
Elect 1141 Digital Fundamentals
Elect 1151 Electronic Devices and Applications I4 Elect 1161 Electronic Communication I
Elect 1161 Electronic Communication I
Elect 2112 Motor Control
Elect 2255 Industrial Controls
Elect 2273 Real-Time Systems and Programming3 Math 1428 College Algebra with Applications3 The Controls and Automation certificate requires 42 credits as listed below. Code 4913 Elect 1100 Electricity and Electronics Fundamentals
Math 1428 College Algebra with Applications
The Controls and Automation certificate requires 42 credits as listed below. Code 4913 Elect 1100 Electricity and Electronics Fundamentals
credits as listed below. Code 4913 Elect 1100 Electricity and Electronics Fundamentals
Elect 1100 Electricity and Electronics Fundamentals
Fundamentals
Elect 1101 Circuits I3
Elect 1120 Electronic Documentation2
Elect 1130 Electronics Materials and Fabrication2
Elect 1141 Digital Fundamentals3
Elect 1151 Electronic Devices and Applications4
Elect 1161 Electronic Communication I4
Elect 2112 Motor Control3
Elect 2255 Industrial Controls3
Elect 2273 Real-Time Systems and Programming3
Math 1428 College Algebra with Applications3
General Education10
Complete 10 credit hours in addition to those listed above.
Please see adviser for detailed list.
The Electronics Technology certificate requires 42
credits as listed below. Code 4925
Elect 1100 Electricity and Electronics
Fundamentals2
Elect 1101 Circuits I3
Elect 1102 Circuits II4
Elect 1120 Electronic Documentation2
Elect 1130 Electronics Materials and Fabrication2
Elect 1141 Digital Fundamentals3
Elect 1151 Electronic Devices and Applications I4
Elect 1151 Electronic Devices and Applications I4 Elect 1152 Electronic Devices and Applications II4 Elect 1161 Electronic Communication I4

English

Elect

Elect

Cis

Math

Certificate

The English Technical Communication certificate addresses the need to communicate technical information to a variety of audiences. It offers students the opportunity to use their technical skills to work in a variety of fields including business, industry, government, health care and

1162 Electronic Communication II4

2255 Industrial Controls3

1400 Programming Logic and Technique4

1428 College Algebra with Applications......3

technolo	gy. Th	is certificate requires 24 credit hours in the	Э	Facm	2203	Facility Systems — Mechanical	3
courses	listed	below. Code 4630		Facm	2215	Facility and Property Management	3
Engli	1105	Introduction to Technical Writing	3	Manag	2210	Principles of Management	3
Engli	1110	Technical Writing	3			_	31
Engli		Writing for the Web		Drogram	n Flec	tives	15
Graph	1102	Introduction to Graphic Publishing				it hours from the following list:	. 13
		Applications	3	Accou		Managerial Accounting	1
Speec	1150	Introduction to Business		Airc		Refrigeration Principles	
		Communication	3	Airc		Introduction to Heating	
Co-op	2863	Cooperative Education/Internship		Airc		Introduction to Safety, Materials	
		(Occupational)	3	AllC	1105	and Equipment	3
		-	18	Airc	1108	Refrigerant Certification	
Floctive			6	Airc		Introduction to Controls	
		urs from the list below. Additional courses	0	Airc		Residential Refrigeration	
		or approval.		Airc		Introduction to Sheet Metal	
Art		Computer Art I	3	Airc		Introduction to Heating	
Cis		Introduction to Computer	0	Airc		Introduction to Hydronics	
Olo	1130	Information Systems	3	Airc		Central Heating Plants	
Cis	1300	Web Design Software		Airc		Residential Air Conditioning	
Cis		HTML and CSS		Airc		Commercial Air Conditioning	
Cis		JavaScript and Advanced HTML		Airc		Heat Pumps	
Engli		Modern English Grammar		Airc		Commercial Refrigeration	
Engli		Creative Nonfiction Writing		Airc		Installation	
Engli		Writing for Publication		Airc		Troubleshooting Systems	
Graph		Printing Methods and Processes		Airc		Advanced Controls	
Grdsn		Selected Topics in Graphic Design		Airc		Direct Digital Control of HVAC	0
Grdsn		Advertising Design		7 1110	2201	Systems	3
Journ		News Reporting and Writing		Airc	2232	Energy Audits/Economics	
Mptv		Introduction to Motion Pictures and	0	Airc		Central Cooling Plants	
wiptv	1011	Television	3	Airc		Load Calculations and Duct Design	
Ofti	1130	Business Correspondence		Airc		Industrial Air Conditioning Design	
Speec		Small-Group Communication		Arch		Construction Methods I	
Speec		Public Relations		Arch		Introduction to Computer-Aided	
Орссс	1140	T dollo ricidilorio	0	7 11 011	1200	Drafting — Microstation	3
				Arch	1211	Basic Computer-Aided Drafting —	
Facilit	v Ma	nagement		•		AutoCad	3
	-	•		Arch	1301	Introduction to Construction	0
-		wo Certificates		•		Management	3
		anagement program is designed to provid	Э	Arch	2142	Construction Methods II	
		proad exposure to the business area with		Arch		Architectural/Computer Modeling	
		ng in the functions of facility management		Arch		Codes, Specifications and Contracts	
		ion, the student will possess the skills and		Arch		Construction Estimating	
		ckground necessary for managing facilities		Busin		Customer Service	
		provides the student the entry-level job skil	IS	Busin	2200	Business Budgeting	3
		es managers. It provides for updating		Busin		Principles of Finance	
		learning new skills for those currently		Buslw		Business Law I	
		ne field. This degree program consists of a		Cis	1221	Introduction to Spreadsheets	3
		credits in general education, program		Elect	1100	Electricity and Electronics	
-		and program electives. The following list				Fundamentals	2
		equired courses, some of which may be		Elect	1101	Circuits I	3
usea to	meet g	general education requirements.		Elect		Circuits II	
4 A C D				Elect	1141	Digital Fundamentals	3
AAS D				Elect		Digital Components and Architecture	
		REQUIREMENTS		Elect		Motor Control	
Code 32				Elect	2245	Digital Systems Programming	4
Accou		Accounting Procedures	4	Elect	2255	Industrial Controls	3
	OR			Elect	2262	Introduction to Microprocessors	4
Accou		Financial Accounting		Elmec	1101	Survey of Automation	3
Arch		Building Materials		Elmec		Motor Fundamentals	
Arch		Blueprint Reading		Elmec		Residential Wiring	
Busin		Introduction to Business	3	Elmec		Industrial Electricity	
Cis	1150	Introduction to Computer	_	Elmec		Commercial and Industrial Wiring	
_		Information Systems		Elmec		Maintenance Management Systems	
Facm		Introduction to Facility Management		Elmec	1410	Preventive and Predictive Maintenance	3
Facm	$\Omega \Omega \Omega \Omega$	Facility Systems — Electrical	3				

Engli		Introduction to Technical Writing		Fashi	on Me	erchandising and Design
Hort		Introduction to Horticulture	3	Two AA	S Degre	ees, Three Certificates
Hort	1112	Landscape Maintenance and	0	The Fas	shion Me	erchandising and Design program studies
Llow	0001	Construction				on world. In the Fashion Design degree
Hort Manag		Turf Science and ManagementSupervision		option,	students	s study for positions in the creation or
Manag		Purchasing				fashions, such as designer, pattern maker,
Manag		Human Resource Management				seamstress, alterations specialist, theater
Manuf		Technical Mechanics				product development. In the Fashion
Manuf		Physical Metallurgy				option, students study for positions in sales
Manuf		Introduction to Plastics				ent, such as showroom personnel,
Manuf		Engineering Materials of Industry				representative or visual merchandiser.
Manuf		Hydraulics and Pneumatics				n Merchandising degree program consists
Manuf		Quality Control				of 60 credits in program requirements,
Marke	2210	Principles of Marketing	3			es and general education in the courses
Psych		Industrial and Organizational		listed be	elow.	
		Psychology	3	AAS D	ECDE	ES
Reale	1110	Real Estate Transactions	3			ES REQUIREMENTS
Reale	1128	Property Management	.1	Code 3		AEQUINEIVIENTS
Speec	1150	Introduction to Business		Fashi		Fashion Promotion3
		Communication		i dom	OR	T dolliott Tolliodori
Weld	1100	Welding I	.3	- Fashi	_	Visual Merchandising3
Weld	1112	Oxy-Fuel, Welding, Plasma Cutting		Fashi		History of Costume I
		and Brazing	.3	Fashi		History of Costume II3
Canara	l Edua	eation1	0	Fashi		Principles of Textiles3
		the courses listed above)	0	Fashi		Fashion Marketing and Merchandising3
•		,		Fashi		Apparel Quality Analysis3
Total Cr	edits I	Required6	4	Fashi		Fashion Motivation3
				Busin		Introduction to Business3
CERTIF	FICAT	ES		Manag	1100	Supervision3
The Fac	ility M	lanagement General certificate allows		Marke		Principles of Marketing3
	-	rom related fields to increase knowledge	Г	Marke	2220	Sales3
related t	o a ca	reer in facility management. This certificate			OR	
		useful for the technician moving up to a	L	- Marke		Advertising3
supervis	ory or	entry-level management position. The		Marke	2230	Retailing3
Facility N	N anag	ement General certificate requires 15 credit	S			36
		listed below. Code 4228				
Facm		Introduction to Facility Management				tives6 to 10
Facm		Facility Systems — Electrical				credits from below and/or other Fashion,
Facm		Facility Systems — Mechanical				keting or Management courses.
Facm	2215	Facility and Property Management	.3	Co-op		Cooperative Education/Internship
Busin	1111	Customer Service	.3			(Occupational)1
				Fashi		Fashion Promotion3
		lanagement Technician Certificate		Fashi	1180	Business Practices for the Fashion
		-level facility management technicians an		Fachi	1000	Entrepreneur
		upgrade workplace skills. This certificate		Fashi	1800	Experiential Special Topics in
		useful for entry level managers in the field to		Faals:	1000	Fashion
		understanding of maintaining and operating		Fashi	1820	Selected Topics in Fashion
-	-	stems. The Facility Management Technician		Fachi	1040	Merchandising
		ires 18 credits in the courses listed below.		Fashi		Independent Study in Fashion1 to 4
Code 42	29			Fashi		Visual Merchandising3
PROGE		REQUIREMENTS				ation 18 to 22
				(In addi	tion to t	he courses listed above)
Facm Facm		Introduction to Facility ManagementFacility and Property Management	.3	Total C	redits F	Required60 to 68
_		-	6	The Fas	shion D	esign degree program consists of a total of
		tives1				in program requirements, program electives
		s of electives from the Facility Management				ucation in the courses listed below.
program	ı, or co	onsult with the program coordinator.		3		
				PROG Code 3		REQUIREMENTS

Fashi

Fashi

1101 Flat Pattern Drafting I......3

1102 Flat Pattern Drafting II......3

Fashi 1130 History of Costume I	Fashi	1105	Design Principles in Apparel	3	Progran	n Elec	tives9
Fashi 1151 Principles of Textilles. 3 Fashi 1152 Clothing Construction I 3 Fashi 1165 Clothing Construction II 3 Fashi 1160 Clothing Construction II 3 Fashi 1160 Clothing Construction II 3 Fashi 1201 Draping 3 Fashi 2201 Draping 3 Fashi 2201 Draping 3 Fashi 2201 Draping 3 Fashi 2202 Design Studio. Apparel 3 Fashi 230 Design Studio. Apparel 3 Fashi 230 Cooperative Education/Internship 260 Cooperative Education/Internship 260 Cooperative Education/Internship 3 Fashi 280 Cooperative Education/Internship 3 7 280 Cooperative Education/Internship 3 280 Cooperative Education/Internship 3 280 Cooperative Education/Internship 3 280	Fashi	1130	History of Costume I	3	Select n	ine ad	ditional credits from below and/or Business,
Fashi 1155 Clothing Construction I	Fashi	1131	History of Costume II	3	Marketir	ng or M	lanagement courses.
Fashi 1155 Clothing Construction I. .3 Fashi 1130 History of Costume I. .3 Fashi 1130 Instory of Costume I. .3 Fashi 1180 Instory of Costume I. .3 Fashi 1180 Instory of Costume I. .3 Fashi 1210 Torping .3 Fashi 1180 Business Practices for the Fashion Entrepreneur .3 Fashi 1220 Visual Merchandising .3 Fashi 12220 Visual Merchandising .3 Fashi 1180 Supervision .3 Fashi 1200 Coupational .1 .4 Marke 2230 Sales .3 .3 Fashi .3	Fashi	1151	Principles of Textiles	3	Fashi	1120	Fashion Promotion3
Fashi 1156 Clothing Construction II. 3 Fashi 1131 History of Costume II. 3 78shi 201 Draping 3 Fashi 2201 Draping 3 Fashi 2211 Fashion Millicitation 3 Fashi 2201 Draping 3 Fashi 2230 Occupational Education Marketing and Merchandising 3 Fashi 2260 Cooperative Education/Internship (Occupational) 1 to 4 Marke 2202 Sales 3 Fashi 120 Occupational 1 to 4 Marke 2203 Petalling 3 Fashi 120 Occupational 1 to 4 Marke 2203 Petalling 3 Fashi 120 Occupational 1 to 4 PROGRAM REOUREEMENTS 3 Fashi 120 Occupational 3 Fashi 120 Occupational 1 to 4 Fashi 120	Fashi	1155	Clothing Construction I	3	Fashi	1130	History of Costume I3
Fashi 2201 Draping 3	Fashi				Fashi	1131	History of Costume II3
Fashi 2202 Design Studio: Apparel 3 Fashi 2220 Visual Merchandising. 3 Fashi 2231 Fashion Illustration 3 Fashi 2220 Visual Merchandising. 3 Fashi 2221 Fashion Marketing and Merchandising. 3 Fashi 2220 Sales. 3 Forgram Electives. 5 Select at least five credits from the courses listed below. Marke 2220 Sales. 3 Select at least five credits from the courses listed below. Marke 2220 Sales. 3 Fashi 1110 Machine Kritting I. 3 Fashi 1110 Machine Kritting II. 3 Fashi 1110 Machine Kritting II. 3 Fashi 1110 Machine Kritting II. 3 Fashi 1110 Machine Kritting II. 3 Fashi 1110 Fashion Promotion. 3 Fashi 1110 Machine Kritting II. 3 Fashi 1110 Fashion Promotion. 3 Fashi 1110 Fashion Promotion. 3 Fashi 1110 Fashion Posting II. 3 Fashi 1180 Business Practices for the Fashion Entrepreneum. 3 Fashi 1180 Business Practices for the Fashion Entrepreneum. 3 Fashi 1820 Selected Topics in Fashion Design 3 3 Fashi 1820 Selected Topics in Fashion Design 3 5 Fashi 1820 Longerintial Sp	Fashi	1160	Tailoring	3	Fashi	1180	Business Practices for the Fashion
Fashi 2211 Fashion Illustration 3 Fashi 2311 Fashion Marketing and Merchandising 3 78 Fashi 2321 Fashion Marketing and Merchandising 3 8 Program Electives 5 Select at least five credits from the courses listed below. 3 Co-0 2861 Cooperalive Education/Internship (Cocupationa) 1 CO-0 2861 Machine Knitting 3 Fashi 1110 Machine Knitting 3 Fashi 1120 Cocupational 1 Fashi 1120 Cocupational 1 Fashi 1180 Cocupational 1 Fashi 1180 Cocupational 1 Fashi 1280 Cocupational 1 Fashi 1280 Cocupational 1 F	Fashi	2201	Draping	3			Entrepreneur3
Fashi 2211 Fashion Illustration 3 Fashi 2311 Fashion Marketing and Merchandising 3 78 Fashi 2321 Fashion Marketing and Merchandising 3 78 Program Electives 5 Select at least five credits from the courses listed below. 3 Co-0 2861 Cooperalive Education/Internship (Coccupations) 1 COccupational 1 7 Fashi 1110 Machine Knitting 3 Fashi 1120 Coccupational 3 Fashi 1120 Coccupational 3 Fashi 1180 Coccupational 3 Fashi 1180 Coccupational 3 Fashi 1280 Coccupational 3 <	Fashi	2202	Design Studio: Apparel	3	Fashi	2220	Visual Merchandising3
Manag 1100 Supervision. 3	Fashi				Fashi	2860	Cooperative Education/Internship
Program Electives	Fashi	2231	Fashion Marketing and Merchandising	3			
Select at least five credits from the courses listed below. Co-op 2861 Cooperative Education/Internship (Occupational)				39	_		
Select at least five credits from the courses listed below. Co-op 2861 Cooperative Education/Internship (Occupational). 1 Fashi 1110 Machine Knitting I	Progran	n Elec	tives	5			
Coccupational 11	Select at	t least	five credits from the courses listed below.		Marke	2230	Retailing3
Fashi 1110 Machine Knitting II	Co-op	2861	Cooperative Education/Internship		The Fee	h.:	
PROGRAM REQUIREMENTS Fashi 1112 Machine Knitting			(Occupational)	1			
Fashi 1114 Weaving	Fashi	1110	Machine Knitting I	3	credits ii	n the c	ourses listed below. Code 4526
Fashi 1116 Weaving 1	Fashi				PROGE	341/1	REQUIREMENTS
Fashi 1120 Fashion Promotion	Fashi						
Fashi 1165 Clothing Construction for the Apparel Industry	Fashi						
Apparel Industry	Fashi			3			
Fashi 1180 Business Practices for the Fashion Entrepreneur	Fashi	1165					
Entrepreneur				3			
Fashi 1800 Experiential Special Topics in Fashion	Fashi	1180	Business Practices for the Fashion		Fashi	1180	
Fashion — 1 to 3 Fashi 1820 Selected Topics in Fashion — Merchandising. — 3 Fashi 1821 Selected Topics in Fashion — Merchandising. — 3 Fashi 1821 Selected Topics in Fashion Design — 3 Fashi 1821 Selected Topics in Fashion Design — 3 Fashi 1821 Selected Topics in Fashion Design — 3 Fashi 1820 Introduction to Business — 3 Fashi 1821 Selected Topics in Fashion Design — 3 Fashi 1821 Selected Topics in Fashion Design — 3 Fashi 1820 Introduction to Business — 3 Fashi 1821 Selected Topics in Fashion Design — 3 Fashi 1821 Selected Topics in Fashion Into Introduction to Business — 3 Busin 1100 Introduction to Business — 3 Select six semester credit hours from below. Busin 1100 Introduction to Business — 3 Select six semester credit hours from below. Busin 1100 Introduction to Business — 3 Select six semester credit hours from below. Busin 1100 Introduction to Business — 3 Select six semester credit hours from below. Busin 1100 Introduction to Business — 3 Select six semester credit hours from below. Busin 1100 Introduction to Business — 3 Select six semester credit hours from below. Busin 1100 Introduction to Business — 3 Select six semester credit hours from below. Busin 1100 Introduction to Business — 3 Select six semester credit hours from below. Busin 1101 Introduction to Business — 3 Busin 1101 Introduction to Business — 3 Select six semester credit hours from below. Busin 1100 Introduction to Business — 3 Busin 1101 Introduction to Business — 3 Susin 1102 Introduction to Business — 3 Susin 1102 Introduction to Business — 3 Busin 1100 Introduction to Business — 10 Busin 1100 Introduction to Business — 10 Busin 110				3			
Fashi 1820 Selected Topics in Fashion Merchandising	Fashi	1800					
Merchandising				03	Progran	n Elec	tives6
Fashi 1821 Selected Topics in Fashion Design 3 Fashi 1840 Independent Study in Fashion 1 to 4 Fashi 1840 Independent Study in Fashion 1 to 4 Fashi 1840 Independent Study in Fashion 1 to 4 Fashi 1212 Fashion Promotion 3 Fashi 2222 Computer-Aided Apparel Design I 3 Fashi 2222 Computer-Aided Apparel Design I 3 Fashi 2223 Computer-Aided Apparel Design I 3 Fashi 2224 Production Pattern Grading 3 Fashi 2225 Fashion Motivation 3 Fashi 2251 Fashion Motivation 3 Fashi 2261 Fashion Motivation 3 Fashi 2261 Textile Design I 3 Fashi 2262 Textile Design I 3 Fashi 2204 Bridal Couture I: Bridal and Special Occasion 1.5 Fashi 2208 Bridal Couture II: Bridal and Special Occasion 1.5 Fashi 2210 Millinery Design I 3 Fashi 2211 Fashion Illustration 3 Fashi 2212 Advanced Fashion Illustration 3 Fashi 2210 Millinery Design I 3 Fashi 2210 Advanced Fashion Illustration 3 Fashi 2210 Advanced Fashion Illustration 3 Fashi 2210 Fashion Promotion 3 Fashi 1101 Fashion Promotion 3 Fashi 1101 Fashion Promotion 3 Fashi 1101 Fashion Promotion 3 Fashi 1102 Fashion Marketing and Marketing 3 Fashi 1101 Fashion Illustration 3 Fashi 1202 Fashion Marketing and M	Fashi	1820	•	_	Select s	ix sem	ester credit hours from below.
Fashi 1840 Independent Study in Fashion							
Fashi 2212 Computer-Aided Apparel Design I					Busin		
Fashi 2222 Computer-Aided Apparel Design I			· · · · · · · · · · · · · · · · · · ·		Fashi	1120	Fashion Promotion3
Fashi 2223 Computer-Aided Apparel Design II. 3 Fashi 2224 Production Pattern Grading. 3 Fashi 2225 Apparel Quality Analysis. 3 Fashi 2225 Fashion Motivation. 3 Fashi 2251 Fashion Motivation. 3 Fashi 2251 Fashion Motivation. 3 Fashi 2261 Textile Design I. 3 Fashi 2261 Textile Design II. 3 General Education. 20 to 24 (In addition to the courses listed above, complete 18 to 22 semester credits in general education, plus two credits in the Global/Multicultural Studies or Contemporary Life Skills categories.) Total Credits Required. 64 to 68 CERTIFICATES In the Fashion Merchandising certificate option, students study for positions in sales and management, such as showroom personnel, manufacturer's representative or visual merchandiser. The certificate program consists of a total of 30 credits. Code 4252 PROGRAM REQUIREMENTS 1101 Flat Pattern Drafting II. 3 Fashi 1102 Flat Pattern Drafting II. 3 Fashi 1155 Clothing Construction II. 3 Fashi 1201 Draping. 3 Fashi 2201 Draping. 3 Fashi 2202 Design Studio: Apparel. 3 Fashi 2203 Design Studio: Apparel. 3 Fashi 2204 Bridal Couture II: Bridal and Special Tocacaion. 1.5 Fashi 2210 Bridal Couture II: Bridal and Special Tocacaion. 1.5 Fashi 2210 Bridal Couture II: Bridal and Special Tocacaion. 1.5 Fashi 2210 Bridal Couture II: Bridal and Special Tocacaion. 1.5 Fashi 2210					Fashi		
Fashi 2224 Production Pattern Grading 3 Fashi 2235 Apparel Quality Analysis 3 Fashi 2251 Fashion Motivation 3 Fashi 2261 Textile Design I 3 Fashi 2261 Textile Design I 3 Fashi 2262 Textile Design II 3 Fashi 2263 Textile Design II 3 Fashi 2264 Textile Design II 3 Fashi 2265 Textile Design II 3 Fashi 2266 Textile Design II 3 Fashi 2266 Textile Design II 3 Fashi 2267 Textile Design II 3 Fashi 2268 Textile Design II 3 Fashi 2211 Fashion IIIIustration 3 Fashi 2211 Fashion IIIIustration 3 Fashi 2211 Fashion Design certificate option, students study for positions in sales and management, such as showroom personnel, manufacturer's representative or visual merchandiser. The certificate program consists of a total of 30 credits. Code 4252 PROGRAM REQUIREMENTS Fashi 1120 Fashion Promotion 3 Fashi 2220 Visual Merchandising 3 Fashi 2231 Fashion Marketing and Merchandising 3 Fashi 2231 Fashion Marketing and Merchandising 3 Fashi 2231 Fashion Motivation 3 Fashi 2231 Fashion Motivation 3 Fashi 2231 Fashion IIII IIII Principles of Textile 3 Fashi 2232 Design Studio: Apparel 3 Fashi 2231 Fashion IIIII Principles of Marketing 3 Fashi 2231 Fashion IIIIII Principles of Marketing 3 Fashi 2231 Fashion IIIIIII Principles of Marketing 3 Fashi 2231 Fashion IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII					Fashi	1165	
Fashi 2235 Apparel Quality Analysis							
Fashi 2251 Fashion Motivation							
Fashi 2261 Textile Design I							
Fashi 2262 Textile Design II							
Fashi 2206 Bridal Couture II: Bridal and Special Occasion 1.5					Fashi	2204	
(In addition to the courses listed above, complete 18 to 22 semester credits in general education, plus two credits in the Global/Multicultural Studies or Contemporary Life Skills categories.) Total Credits Required						0000	
semester credits in general education, plus two credits in the Global/Multicultural Studies or Contemporary Life Skills categories.) Total Credits Required					Fasni	2206	· · · · · · · · · · · · · · · · · · ·
the Global/Multicultural Studies or Contemporary Life Skills categories.) Total Credits Required	`		· · · · · · · · · · · · · · · · · · ·		Cook:	0000	
CERTIFICATES In the Fashion Merchandising certificate option, students study for positions in sales and management, such as showroom personnel, manufacturer's representative or visual merchandiser. The certificate program consists of a total of 30 credits. Code 4252 PROGRAM REQUIREMENTS Fashi 1120 Fashion Promotion							
Total Credits Required			ticultural Studies or Contemporary Life Sk	ills			
CERTIFICATES In the Fashion Merchandising certificate option, students study for positions in sales and management, such as showroom personnel, manufacturer's representative or visual merchandiser. The certificate program consists of a total of 30 credits. Code 4252 PROGRAM REQUIREMENTS Fashi 1120 Fashion Promotion	categori	es.)					
for positions in the creation or construction of fashions, such as designer, pattern maker, sample maker, seamstress, alterations specialist, theater costumer and product development. This certificate program consists of a total of 30 credits. Code 4252 PROGRAM REQUIREMENTS Fashi 1120 Fashion Promotion	Total Cr	edits F	Required64 to	68	газііі	2212	Advanced Fasilion illustration
for positions in the creation or construction of fashions, such as designer, pattern maker, sample maker, seamstress, alterations specialist, theater costumer and product development. This certificate program consists of a total of 30 credits. Code 4252 PROGRAM REQUIREMENTS Fashi 1120 Fashion Promotion	0===	-10:-			For the I	Fashio	on Design certificate option. students study
In the Fashion Merchandising certificate option, students study for positions in sales and management, such as showroom personnel, manufacturer's representative or visual merchandiser. The certificate program consists of a total of 30 credits. Code 4252 PROGRAM REQUIREMENTS Fashi 1120 Fashion Promotion	CERTIF	-ICAT	ES				
such as showroom personnel, manufacturer's representative or visual merchandiser. The certificate program consists of a total of 30 credits. Code 4252 PROGRAM REQUIREMENTS Fashi 1120 Fashion Promotion	In the Fa	ashion	Merchandising certificate option,		such as	design	ner, pattern maker, sample maker,
representative or visual merchandiser. The certificate program consists of a total of 30 credits. Code 4252 PROGRAM REQUIREMENTS PROGRAM REQUIREMENTS PROGRAM REQUIREMENTS Fashi 1120 Fashion Promotion	students	study	for positions in sales and management,		seamstr	ess, al	terations specialist, theater costumer and
program consists of a total of 30 credits. Code 4252 PROGRAM REQUIREMENTS PROGRAM REQUIREMENTS Fashi 1120 Fashion Promotion	such as	showr	oom personnel, manufacturer's		product	develo	opment. This certificate program consists of
PROGRAM REQUIREMENTS Fashi 1120 Fashion Promotion	represer	ntative	or visual merchandiser. The certificate		a total of	f 30 cr	edits in program requirements and program
Fashi 1120 Fashion Promotion	program	n consi	sts of a total of 30 credits. Code 4252		electives	s. Cod	e 4527
Fashi 1120 Fashion Promotion	PPOCE)	REQUIREMENTS				DECLUDE AFAITS
OR Fashi 1102 Flat Pattern Drafting II							
Fashi2220 Visual Merchandising3Fashi1151 Principles of Textiles3Fashi1151 Principles of Textiles3Fashi1155 Clothing Construction I3Fashi2231 Fashion Marketing and Merchandising3Fashi1156 Clothing Construction II3Fashi2235 Apparel Quality Analysis3Fashi2201 Draping3Fashi2251 Fashion Motivation3Fashi2202 Design Studio: Apparel3Busin1100 Introduction to Business3Fashi2211 Fashion Illustration3Marke2210 Principles of Marketing3	- rashi		rasnion Promotion	3			
Fashi1151 Principles of Textiles3Fashi1155 Clothing Construction I3Fashi2231 Fashion Marketing and Merchandising3Fashi1156 Clothing Construction II3Fashi2235 Apparel Quality Analysis3Fashi2201 Draping3Fashi2251 Fashion Motivation3Fashi2202 Design Studio: Apparel3Busin1100 Introduction to Business3Fashi2211 Fashion Illustration3Marke2210 Principles of Marketing3	Eoch:		Vioual Marchandiaina	2			
Fashi2231Fashion Marketing and Merchandising3Fashi1156Clothing Construction II3Fashi2235Apparel Quality Analysis3Fashi2201Draping3Fashi2251Fashion Motivation3Fashi2202Design Studio: Apparel3Busin1100Introduction to Business3Fashi2211Fashion Illustration3Marke2210Principles of Marketing3							
Fashi 2235 Apparel Quality Analysis 3 Fashi 2201 Draping 3 Fashi 2251 Fashion Motivation 3 Fashi 2202 Design Studio: Apparel 3 Busin 1100 Introduction to Business 3 Fashi 2211 Fashion Illustration 3 Marke 2210 Principles of Marketing 3 24							
Fashi 2251 Fashion Motivation .3 Busin 1100 Introduction to Business .3 Marke 2210 Principles of Marketing .3 Fashi 2202 Design Studio: Apparel .3 Fashi 2211 Fashion Illustration .3 24							
Busin 1100 Introduction to Business							
Marke 2210 Principles of Marketing3							
					rasili	44 11	
	WIGHT	2210	i iliopies oi wartellig				24

Program	n Elect	tives	6
Select a	minim	um of six semester credits from below.	
Fashi	1105	Design Principles in Apparel	3
Fashi	1120	Fashion Promotion	3
Fashi	1130	History of Costume I	3
Fashi	1131	History of Costume II	3
Fashi	1160	Tailoring	3
Fashi	1800	Experiential Special Topics in Fashion 1 t	о3
Fashi	1821	Selected Topics in Fashion Design	3
Fashi	1840	Independent Study in Fashion1 t	o 4
Fashi	2231	Fashion Marketing and Merchandising	3
Fashi	2251	Fashion Motivation	3

Fire

Fire Science Technology

Two Degree Options, Five Certificates

The Fire Science Technology program encompasses both fire fighting and emergency medical services. The Fire Science degree focuses on the theory and techniques of fire fighting, inclusive of the Emergency Medical Technician curriculum, required by most fire departments. The new Emergency Medical Services degree focuses on emergency medical services and the administration of those services in any setting. The certificate programs target specific aspects of fire fighting and emergency care. The Fire Science degree program requires a minimum of 64 credits in the courses below.

Fire Science Degree

PROGRAM REQUIREMENTS

Code 3427

Fire	1100	Introduction to Fire Science	3
Fire	1111	Fire Prevention I	3
Fire	2201	Extinguishing and Alarm Systems	3
Fire	2210	Fire Apparatus	3
Fire	2215	Building Construction	3
			15
Progran	n Elec	tives	14
Select fr	om the	e following courses:	
Fire	1101	Fire Fighter II-A	4
Fire	1102	Fire Fighter II-B	4
Fire	1103	Fire Fighter II-C	4
Fire	1104	Fire Fighter III	8
Fire		Fire Prevention II	
Fire	1120	Codes and Laws	3
Fire	2210	Fire Apparatus	
Fire	2211	Fire Apparatus Engineer	
Fire		Tactics I	
Fire		Tactics II	
Fire	2230	Hazardous Materials	
Fire	2231	Hazardous Materials Operations	
Fire	2232		
Fire		Hazardous Materials Technician B.	
Fire	2240	Industrial Safety	
Fire	2251	Fire Management I	
Fire	2252	Fire Management II	3
Fire		Fire Management III	
Fire		Fire Management IV	
Fire		Fire Service Instructor I	
Fire		Fire Service Instructor II	
Fire		Fire Investigation	
Fire	2261		
Fire		Fire/Arson Investigation II	
Fire	2263	Fire/Arson Investigation III	3

Fire Fire Fire Fire Fire Fire	2271 Emergency Med Technician — Basic
Elective	s17
General	om any 1000- or 2000-level courses. Education
`	ion to the courses listed above) edits Required64
This deg	ency Medical Services Degree program requires a minimum of 65 credits in listed below.
PROGF Code 34	RAM REQUIREMENTS 28
Fire Fire Fire Fire Anat&	2274 Paramedic I 8 2275 Paramedic II 8 2276 Paramedic III 8 2277 Paramedic IV 8 1500 Survey of Human Anatomy and Physiology 4 OR
Engli Manag Manag Manag Manag Math	Any Science Lab course 1101 English Composition I
Psych Speec	1100 General Psychology
In addition Humanit Life Skills	Education
_	FICATES
	amedic certificate requires 32 credits in the listed below. Code 4426 8 2274 Paramedic I 2275 Paramedic II 8 2276 Paramedic IV 8 8 8 8 8 8 8 8 8 8 8 8 8 9 8 10 8 10 8 10 8 10 8 10 8 10 8 10 8 10 8 10 8 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10
	Fighter certificate requires 18 credits in the listed below. Code 4427 1101 Fire Fighter II-A

2271 Emergency Med Technician — Basic8

		ention certificate requires 24 credits in the			2
courses		below. Code 4428		t hours in Global/Mult	icultural Studies or
Fire		Fire Prevention I3	Contem	orary Life Skills	
Fire		Extinguishing and Alarm Systems3	Genera	Education	18 to 22
Fire		Building Construction3		n to the above course	
Fire		Hazardous Materials3	Total C	dita Daguirad	65 to 69
Fire		Fire Management I3	iotai C	aits Requirea	65 10 69
Fire		Fire Investigation3	The De	and Doots, Asta C	Nagrae requires a minimum
Engli		English Composition 13			Degree requires a minimum
Speec	1100	Fundamentals of Speech	01 64 Cr	lits from the courses l	isted below.
		Communication3	DD00	* * * DEOLUDE* *E*	ITO
				AM REQUIREMEN	115
The Fire	Offic	er certificate requires a minimum of 33	Code 3		
credits in		courses listed below. Code 4429	Foods	1104 Cake Decoratin	g and Confectionery2
Fire	1111	Fire Prevention I3	Foods	1107 Cake Decoratin	g and Confectionery II2
Fire	2221	Tactics I3	Foods	1109 Nutrition for the	
Fire	2222	Tactics II3			2
Fire	2251	Fire Management I3	Foods	1130 Hospitality Indu	stry Accounting3
Fire	2252	Fire Management II3	Foods	1152 Food, Beverage	and Equipment
Fire	2253	Fire Management III3		Purchasing	3
Fire	2254	Fire Management IV3	Foods	2202 Foodservice Me	erchandising2
Fire	2255	Fire Service Instructor I3	Foods		nitation2
Fire	2256	Fire Service Instructor II3	Foods	2251 Techniques of S	Supervision2
Engli		English Composition 13	Foods		Baking and Patisserie I5
Speec		Fundamentals of Speech	Foods		Baking and Patisserie II5
•		Communication3	Foods		aking and Patisserie III5
			Foods		of the Baking Industry3
The Eme	eraen	cy Medical Technician certificate requires	Co-op	2864 Cooperative Ed	
		course listed below. Code 4430			4
Fire		Emergency Medical Technician8		, ,	40
		3 ,	D	Flactions	2
				Electives	6
				and altabase and the engineers of	
Foods	ervic	e Δdministration		additional Foodservi	
		e Administration	Culinar	arts credits to meet gr	aduation requirements.)
Three De	egrees	s, Four Certificates	Culinar	arts credits to meet gr	
Three Do	e <i>grees</i> dservi	s, Four Certificates ce Administration program provides an	Culinar Genera	Arts credits to meet grand	aduation requirements.)
Three Do	e <i>grees</i> dservi nity for	s, Four Certificates ce Administration program provides an r students to learn the necessary skills to	Culinar Genera (In addi	Arts credits to meet grand	aduation requirements.)18 bove. Complete at least two
Three Do The Foo opportune begin or	egrees dservi nity for enhar	s, Four Certificates ce Administration program provides an r students to learn the necessary skills to nce a career in the hospitality industry, the	Culinar Genera (In addi credits	Arts credits to meet gr Education In to courses listed ab	aduation requirements.)18 sove. Complete at least two Life Skills or
Three Do The Foo opportune begin or	egrees dservi nity for enhar	s, Four Certificates ce Administration program provides an r students to learn the necessary skills to	Genera (In addi credits Global/	Arts credits to meet greet Gre	aduation requirements.)18 bove. Complete at least two Life Skills or legory.)
Three Do The Foo opportune begin or nation's	egrees dservi nity for enhar larges	s, Four Certificates ce Administration program provides an r students to learn the necessary skills to nce a career in the hospitality industry, the st retail employer.	Genera (In addi credits Global/	Arts credits to meet greet Gre	aduation requirements.)18 sove. Complete at least two Life Skills or
Three Do The Foo opportune begin or	egrees dservi nity for enhar larges	s, Four Certificates ce Administration program provides an r students to learn the necessary skills to nce a career in the hospitality industry, the st retail employer.	Genera (In addi credits Global/ Total C	Arts credits to meet gr Education	aduation requirements.)18 bove. Complete at least two Life Skills or regory.)64
Three Do The Foo opportun begin or nation's	egrees dservionity for enhar larges	s, Four Certificates ce Administration program provides an r students to learn the necessary skills to nce a career in the hospitality industry, the st retail employer.	Culinary Genera (In addi credits Global/ Total C	Arts credits to meet gr. Education In to courses listed about the Contemporary alticultural Studies cate dits Required	aduation requirements.)
Three Do The Foo opportun begin or nation's AAS DI The Culi	egrees dservice nity for enhar larges EGRE	s, Four Certificates ce Administration program provides an r students to learn the necessary skills to nce a career in the hospitality industry, the st retail employer.	Genera (In addi credits Global/ Total C	Arts credits to meet graducation	aduation requirements.)
Three Do The Foo opportun begin or nation's AAS DI The Culi minimum	egrees dservinity for enhar larges EGRE inary a	s, Four Certificates ce Administration program provides an restudents to learn the necessary skills to nee a career in the hospitality industry, the stretail employer. EES Arts degree program consists of a	Genera (In addi credits Global/ Total C	Arts credits to meet graducation	aduation requirements.)
Three Do The Foo opportun begin or nation's AAS DI The Culi minimum	egrees dservinity for enhar larges EGRE inary a m of 65 nents a	s, Four Certificates ce Administration program provides an restudents to learn the necessary skills to nee a career in the hospitality industry, the stretail employer. EES Arts degree program consists of a 5 credits in general education, program and electives. The following list contains the	Genera (In addi credits Global/ Total C	Arts credits to meet graducation	aduation requirements.)
Three Do The Foo opportun begin or nation's AAS DI The Culi minimum requirem	egrees dservinity for enhar larges EGRE inary a m of 65 nents a	s, Four Certificates ce Administration program provides an restudents to learn the necessary skills to nee a career in the hospitality industry, the stretail employer. EES Arts degree program consists of a 5 credits in general education, program and electives. The following list contains the	Genera (In addi credits Global/ Total C The For consists and pro- required	Arts credits to meet graducation	aduation requirements.)
Three Do The Foo opportun begin or nation's AAS DI The Culi minimum requirem required	egrees dservie nity for enhar larges EGRE inary a m of 65 nents a	s, Four Certificates ce Administration program provides an restudents to learn the necessary skills to nee a career in the hospitality industry, the stretail employer. EES Arts degree program consists of a 5 credits in general education, program and electives. The following list contains the	Genera (In addi credits Global/ Total C The Foc consists and pro required	Arts credits to meet graducation	aduation requirements.)
Three Do The Foo opportun begin or nation's AAS DI The Culi minimum requirem required	dservinity for enhar larges EGRE inary and of 65 nents at cours	ce Administration program provides an a students to learn the necessary skills to nee a career in the hospitality industry, the staretail employer. EES Arts degree program consists of a coredits in general education, program and electives. The following list contains the sees.	General (In additional Credits Global/ Total Commissional Commissional Commissional Crequired PROG Code 3:	Arts credits to meet graducation	aduation requirements.)
Three Do The Foo opportun begin or nation's AAS DI The Culi minimum requirem required PROGE Code 32	egrees dservinity for enhar larges EGRE inary a m of 65 ments a l cours	ce Administration program provides an a students to learn the necessary skills to nee a career in the hospitality industry, the st retail employer. EES Arts degree program consists of a 5 credits in general education, program and electives. The following list contains the ses. REQUIREMENTS	General (In additional Credits Global/ Total Commissional Commissional Commissional Commissional Code 33 Foods	Arts credits to meet graducation	aduation requirements.)
Three Do The Foo opportun begin or nation's AAS DI The Culi minimum required PROGF Code 32 Foods	egrees dservinity for enhar larges EGRE inary A n of 65 nents a I cours RAM I 231	ce Administration program provides an a students to learn the necessary skills to nee a career in the hospitality industry, the st retail employer. EES Arts degree program consists of a coredits in general education, program and electives. The following list contains the sees. REQUIREMENTS Culinary Arts: Quantity Food Prep I	Gulinary Genera (In addi credits Global/ Total C The For consists and pro- required PROG Code 3: Foods Foods	Arts credits to meet graducation	aduation requirements.)
Three Do The Foo opportun begin or nation's AAS DI The Culi minimum requirem required PROGF Code 32 Foods Foods	egrees dservinity for enhar larges EGRE inary A m of 65 nents a l cours RAM I 231 1101 1102	ce Administration program provides an a students to learn the necessary skills to nee a career in the hospitality industry, the st retail employer. EES Arts degree program consists of a coredits in general education, program and electives. The following list contains the sees. REQUIREMENTS Culinary Arts: Quantity Food Prep I	Gulinary Genera (In addi credits Global/ Total C The For consists and proc required PROG Code 3: Foods Foods Foods Foods	Arts credits to meet graducation	aduation requirements.)
Three Do The Foo opportun begin or nation's AAS DI The Culi minimum required PROGF Code 32 Foods	egrees dservinity for enhar larges EGRE inary A m of 65 nents a l cours RAM I 231 1101 1102	ce Administration program provides an a students to learn the necessary skills to nee a career in the hospitality industry, the st retail employer. EES Arts degree program consists of a coredits in general education, program and electives. The following list contains the ses. REQUIREMENTS Culinary Arts: Quantity Food Prep I	Gulinary Genera (In addi credits Global/ Total C The For consists and pro- required PROG Code 3: Foods Foods	Arts credits to meet graducation	aduation requirements.)
Three Do The Foo opportun begin or nation's AAS DI The Culi minimum requirem required PROGF Code 32 Foods Foods Foods	egrees dservinity for enhar larges EGRE inary A n of 65 nents a l cours RAM I 231 1101 1102 1109	ce Administration program provides an a students to learn the necessary skills to nee a career in the hospitality industry, the st retail employer. EES Arts degree program consists of a ceredits in general education, program and electives. The following list contains the ses. REQUIREMENTS Culinary Arts: Quantity Food Prep I	Gulinary Genera (In addi credits Global/ Total C The For consists and proc required PROG Code 3: Foods Foods Foods Foods	Arts credits to meet grant credits of a minimum of 66 cream requirements. The courses. AM REQUIREMENTS In 100 Introduction to the course of a minimum of 66 cream requirements. The courses. AM REQUIREMENTS In 100 Introduction to the course of a minimum of a course of a	aduation requirements.)
Three Do The Foo opportun begin or nation's AAS DI The Culi minimum required PROGF Code 32 Foods Foods Foods Foods	egrees dservinity for enhar larges EGRE inary A n of 65 nents a l cours RAM I 231 1101 1102 1109	ce Administration program provides an a students to learn the necessary skills to note a career in the hospitality industry, the st retail employer. EES Arts degree program consists of a coredits in general education, program and electives. The following list contains the ses. REQUIREMENTS Culinary Arts: Quantity Food Prep I	Gulinary Genera (In addi credits Global/ Total C The For consists and proc required PROG Code 3: Foods Foods Foods Foods	Arts credits to meet graducation	aduation requirements.)
Three Do The Foo opportun begin or nation's AAS DI The Culi minimum requirem required PROGF Code 32 Foods Foods Foods	egrees dservinity for enhar larges EGRE inary A n of 65 nents a l cours RAM I 231 1101 1102 1109	ce Administration program provides an a students to learn the necessary skills to note a career in the hospitality industry, the st retail employer. EES Arts degree program consists of a coredits in general education, program and electives. The following list contains the ses. REQUIREMENTS Culinary Arts: Quantity Food Prep I	Gulinary Genera (In addi credits Global/ Total C The For consists and pro required PROG Code 3: Foods	Arts credits to meet graducation	aduation requirements.)
Three Do The Foo opportun begin or nation's AAS DI The Culi minimum required PROGF Code 32 Foods Foods Foods Foods Foods Foods	egrees dservinity for enhar larges EGRE inary A n of 65 nents a l cours RAM I 231 1101 1102 1109	ce Administration program provides an a students to learn the necessary skills to note a career in the hospitality industry, the st retail employer. EES Arts degree program consists of a coredits in general education, program and electives. The following list contains the ses. REQUIREMENTS Culinary Arts: Quantity Food Prep I	Gulinary Genera (In addi credits Global/ Total C The For consists and pro required PROG Code 3: Foods Foods Foods Foods Foods Foods Foods	Arts credits to meet graducation	aduation requirements.)
Three Do The Foo opportun begin or nation's AAS DI The Culi minimum required PROGF Code 32 Foods Foods Foods Foods Foods Foods Foods	egrees dservinity for enhar larges EGRE inary An of 65 nents at cours RAM I 1101 1102 1109 1151 1152	ce Administration program provides an a students to learn the necessary skills to note a career in the hospitality industry, the st retail employer. EES Arts degree program consists of a coredits in general education, program and electives. The following list contains the ses. REQUIREMENTS Culinary Arts: Quantity Food Prep I	Gulinary Genera (In addi credits Global/ Total C The For consists and pro required PROG Code 3: Foods	Arts credits to meet graducation	aduation requirements.)
Three Do The Foo opportun begin or nation's AAS DI The Culi minimum required PROGF Code 32 Foods	dservinity for enhar larges EGRE inary Amon of 65 nents at cours RAM I 1101 1102 1109 1151 1152 1153 2201	ce Administration program provides an a students to learn the necessary skills to nee a career in the hospitality industry, the startail employer. EES Arts degree program consists of a credits in general education, program and electives. The following list contains the ses. REQUIREMENTS Culinary Arts: Quantity Food Prep I	Gulinary Genera (In addi credits Global/ Total C The For consists and pro required PROG Code 3: Foods	Arts credits to meet graducation	aduation requirements.)
Three Do The Foo opportun begin or nation's AAS DI The Culi minimum required PROGF Code 32 Foods	dservinity for enhar larges EGRE inary and of 65 nents at cours RAM I 1102 1109 1151 1152 1153 2201 2205	ce Administration program provides an a students to learn the necessary skills to nee a career in the hospitality industry, the startail employer. EES Arts degree program consists of a credits in general education, program and electives. The following list contains the ses. REQUIREMENTS Culinary Arts: Quantity Food Prep I	Gulinary Genera (In addi credits Global/ Total C The Foc consists and pro required PROG Code 3: Foods	arts credits to meet graducation	aduation requirements.)
Three Do The Foo opportun begin or nation's AAS DI The Culi minimum required PROGF Code 32 Foods	dservinity for enhard larges EGRE inary and of 65 nents and 100 cours RAM 1101 1102 1109 1151 1152 1153 2201 2205 2220	ce Administration program provides an a students to learn the necessary skills to nee a career in the hospitality industry, the starteail employer. EES Arts degree program consists of a credits in general education, program and electives. The following list contains the ses. REQUIREMENTS Culinary Arts: Quantity Food Prep I	Gulinary Genera (In addi credits Global/ Total C The Foconsists and procrequired PROG Code 3: Foods	arts credits to meet graducation	aduation requirements.)
Three Do The Foo opportun begin or nation's AAS DI The Culi minimum required PROGF Code 32 Foods	egrees dservinity for enhar larges EGRE inary and of 65 nents and cours RAM I 231 1101 1102 1109 1151 1152 1153 2201 2205 2220 2251	ce Administration program provides an restudents to learn the necessary skills to nee a career in the hospitality industry, the stretail employer. EES Arts degree program consists of a credits in general education, program and electives. The following list contains the ses. REQUIREMENTS Culinary Arts: Quantity Food Prep I	Gulinary Genera (In addi credits Global/ Total C The Foconsists and procrequired PROG Code 3: Foods	arts credits to meet graducation	aduation requirements.)
Three Do The Foo opportun begin or nation's AAS DI The Culi minimum required PROGE Code 32 Foods	egrees dservinity for enhar larges EGRE inary and of 65 nents and cours RAM I 231 1101 1102 1109 1151 1152 1153 2201 2205 2220 2251 2271	ce Administration program provides an restudents to learn the necessary skills to nee a career in the hospitality industry, the stretail employer. EES Arts degree program consists of a credits in general education, program and electives. The following list contains the ses. REQUIREMENTS Culinary Arts: Quantity Food Prep I	Gulinary Genera (In addi credits Global/ Total C The Foc consists and pro required PROG Code 3: Foods	arts credits to meet gr. Education	aduation requirements.)
Three Do The Foo opportun begin or nation's AAS DI The Culi minimum required PROGF Code 32 Foods	egrees dservinity for enhar larges EGRE inary and of 65 nents and cours RAM I 1102 1109 1151 1152 1153 2201 2205 2220 2251 2271 2272	ce Administration program provides an restudents to learn the necessary skills to nee a career in the hospitality industry, the stretail employer. EES Arts degree program consists of a credits in general education, program and electives. The following list contains the ses. REQUIREMENTS Culinary Arts: Quantity Food Prep I	General (In additional Credits Global/) Total C The Food consists and proper required PROG Code 3: Foods F	arts credits to meet gr. Education	aduation requirements.)
Three Do The Foo opportun begin or nation's AAS DI The Culi minimum required PROGF Code 32 Foods	egrees dservinity for enhar larges EGRE inary and of 65 nents and cours RAM I 1102 1109 1151 1152 1153 2201 2205 2220 2251 2271 2272	ce Administration program provides an restudents to learn the necessary skills to nee a career in the hospitality industry, the stretail employer. EES Arts degree program consists of a credits in general education, program and electives. The following list contains the ses. REQUIREMENTS Culinary Arts: Quantity Food Prep I	General (In additional Credits Global/) Total C The Food consists and proper required PROG Code 3: Foods	service Administrate of a minimum of 66 creation man requirements. The courses. AM REQUIREMENTS 1100 Introduction to the professional of the pro	aduation requirements.)

Progran	n Electives8	The Foodservice Administration certificate requires 36 credits in the courses listed below. Code 4235			
	ight credits from below. Other management and	Foods	1100 Introduction to the Hospitality		
	ing courses may be taken as program electives.	FI-	Industry3		
	with a faculty adviser for approval.	Foods	1101 Culinary Arts: Quantity Food Prep I5		
Foods Foods	1105 Restaurant Concept Development2 2203 Professional Catering and Banquet	Foods Foods	1102 Culinary Arts: Quantity Food Prep II5 1109 Nutrition for the Foodservice		
	Management3		Professional2		
Foods	2204 Wines of the World2	Foods	1130 Hospitality Industry Accounting3		
Foods	2261 Beverage Management Operation2	Foods	1151 Food and Beverage Service and Sales2		
Foods	2262 Restaurant Beverage Service —	Foods	1152 Food, Beverage and Equipment		
	Mixology2		Purchasing3		
Foods	2270 Fundamentals of the Baking Industry3	Foods	2201 Culinary Arts — Classical Cuisine4		
Hotel	2212 Hotel Facilities Operations Management3	Foods	2220 Foodservice Sanitation		
		Foods	2230 Law for the Hospitality Industry2		
Elective	es2	Foods	2251 Techniques of Supervision		
	dit hours in Global/Multicultural Studies or porary Life Skills	Co-op	2863 Cooperative Education/Internship (Occupational)3		
Genera	I Education	The Re	verage Management certificate requires 10		
	ion to courses listed above. Complete at least two		n the courses listed below. Code 4237		
	rom the Global/Multicultural or Contemporary Life	Foods	2202 Foodservice Merchandising2		
Skills ca		Foods	2204 Wines of the World2		
	edits Required66 to 70	Foods	2251 Techniques of Supervision2		
iolai Ci	edits nequired00 to 70	Foods	2261 Beverage Management Operation2		
CERTIE	FICATES	Foods	2262 Restaurant Beverage Service —		
			Mixology2		
	odservice Administration Pastry Arts certificate		3,		
requires	40 credits in the courses below. Code 4232				
Foods	1104 Cake Descripting and Confectionary	Graph	nic Arts Technology		
Foods	1104 Cake Decorating and Confectionery2 1107 Cake Decorating and Confectionery II2	Two AA	S Degrees, Two Certificates		
Foods	1109 Nutrition for the Foodservice	The Gra	phic Arts Technology program prepares students		
1 0003	Professional2		in printing, publishing and related industries.		
Foods	1130 Hospitality Industry Accounting3	.0. 10.00	pg, pasierg and related industries.		
Foods	1152 Food, Beverage and Equipment	AAS D	egree, Print Production		
	Purchasing3		gree program consists of a minimum of 64 credits		
Foods	2202 Foodservice Merchandising2		am requirements, program electives and general		
Foods	2220 Foodservice Sanitation2		on. The following list contains the required courses.		
Foods	2251 Techniques of Supervision2				
Foods	2270 Fundamentals of the Baking Industry3	PROG	RAM REQUIREMENTS		
Foods	2271 Pastry Arts — Baking and Patisserie I5	Code 38	531		
Foods	2272 Pastry Arts — Baking and Patisserie II5	Graph	1101 Printing Methods and Processes3		
Foods	2273 Pastry Arts-Baking and Patisserie III5	Graph	1102 Introduction to Graphic Publishing		
Co-op	2864 Cooperative Education/Internship		Applications3		
	(Occupational)4	Graph	1103 Press Operation3		
		Graph	1104 Binding and Finishing2		
	inary Arts certificate requires 45 hours in the	Graph	1160 Color Reproduction Techniques3		
	listed below. Code 4233	Graph	1183 Digital Page Layout: QuarkXPress3		
Foods Foods	1101 Culinary Arts: Quantity Food Prep I5	Graph	1185 Digital Page Layout: Adobe InDesign3		
Foods	1102 Culinary Arts: Quantity Food Prep II5 1109 Nutrition for the Foodservice	Graph	1186 Production Illustration: Adobe		
roous	Professional2		Illustrator3		
Foods	1151 Food and Beverage Service and Sales2	Graph	2201 Advanced Press Operation4		
Foods	1152 Food, Beverage and Equipment	Graph	2230 Graphic Arts Business Practices3		
1 0003	Purchasing3	Graph	2245 Digital Prepress Imaging: Adobe		
Foods	1153 Culinary Arts — Garde Manger3		Photoshop		
Foods	2201 Culinary Arts — Classical Cuisine4	Graph	2265 Web Publishing		
Foods	2205 Culinary Arts: International Cuisine3	Graph	2275 Capstone: Print Production4		
Foods	2220 Foodservice Sanitation2		40		
Foods	2251 Techniques of Supervision2		m Electives6		
Foods	2271 Pastry Arts — Baking and Patisserie I5		hree credits in any 1000- or 2000-level Graphic Arts		
Foods	2272 Pastry Arts — Baking and Patisserie II5		ogy course in addition to the Program		
Co-op	2864 Cooperative Education/Internship		ments listed above. Select three credits co-op or		
	(Occupational)4	internsh	ııp.		

_			
	al Education18 to 22	Graph	1185 Digital Page Layout: Adobe InDesign3
(In add	ition to the courses listed above)	Graph	1186 Production Illustration: Adobe Illustrator3
Total C	redits Required64 to 68	Graph	2220 Digital Workflow and Preflight2
	·	Graph	2230 Graphic Arts Business Practices3
AAS D	egree, Digital Prepress Production	Graph	2240 Advanced Digital Page Layout:
	gree program consists of a minimum of 64 credits		QuarkXPress3
	ram requirements and general education. The	Graph	2245 Digital Prepress Imaging:
	ig list contains the required courses.		Adobe Photoshop3
1011011111	ig not containe the required courses.	Graph	2254 Advanced Digital Imaging:
PROG	RAM REQUIREMENTS		Adobe Photoshop3
Code 3		Graph	2270 Advanced Production Illustration:
			Adobe Illustrator3
Graph	1101 Printing Methods and Processes3	Graph	2280 Capstone: Digital Prepress Production3
Graph	1102 Introduction to Graphic Publishing	Grdsn	1102 Graphic Design I3
	Applications3		
Graph	1104 Binding and Finishing2		
Graph	1160 Color Reproduction Techniques3	Graph	nic Design
Graph	1183 Digital Page Layout: QuarkXPress3	AAS De	gree, Three Certificates
Graph	1186 Production Illustration: Adobe Illustrator3		aphic Design program emphasizes portfolio
Graph	2220 Digital Workflow and Preflight2		
Graph	2230 Graphic Arts Business Practices3		pment through the study of principles and elements gn, typography, illustration, identity design,
Graph	2240 Advanced Digital Page Layout:		
	QuarkXPress3		sing design, web design and simulated studio work.
Graph	2245 Digital Prepress Imaging: Adobe		ts gain experience in the use of traditional and
	Photoshop3		lesign tools and software. Articulation agreements
Graph	2254 Advanced Digital Imaging: Adobe	exist to	continue education beyond the AAS degree.
	Photoshop3	The Gr	aphic Design degree program consists of a
Graph	2265 Web Publishing3		m of 66 credits in general education and program
Graph	2266 Advanced Web Publishing3		ments. The following list contains the required
Graph	2270 Advanced Production Illustration:	courses	-
	Adobe Illustrator3	Courses	5.
Graph	2280 Capstone: Digital Prepress Production3	ΔΔςΓ	DEGREE
Grdsn	1102 Graphic Design I3	_	RAM REQUIREMENTS
	46	Code 3	
Genera	al Education18 to 22		
	ition to the courses listed above)	Grdsn	1100 Drawing for Design3
		Grdsn	1102 Graphic Design I3
iotai C	redits Required64 to 68	Grdsn	1104 Typography3
OFDT	FIGATEO	Grdsn	1105 Graphic Design II3
CERTI	FICATES	Grdsn	1106 Three-Dimensional Design3
The Pri	nt Production certificate requires a total of 36	Grdsn	1107 Digital Illustration I3
credits	in the courses listed below. Code 4531	Grdsn	1108 Digital Illustration II3
Graph	1101 Printing Methods and Processes3	Grdsn	2201 Graphic Design III3
Graph	1102 Introduction to Graphic Publishing	Grdsn	2202 Web/Interactive Design I3
	Applications3	Grdsn	2203 Advertising Design3
Graph	1103 Press Operation3	Grdsn	2204 Digital Illustration III
Graph	1104 Binding and Finishing2	Grdsn	2205 Graphic Design IV3
Graph	1160 Color Reproduction Techniques3	Grdsn	2206 Web/Interactive Design II3
Graph	1183 Digital Page Layout: QuarkXPress3	Grdsn	2207 New Media Design3
Graph	1186 Production Illustration: Adobe Illustrator3	Grdsn	2208 Portfolio Seminar3
Graph	2201 Advanced Press Operation4	Grdsn	1102 Introduction to Graphic
Graph	2220 Digital Workflow and Preflight2		Publishing Applications3
Graph	2230 Graphic Arts Business Practices3		48
Graph	2245 Digital Prepress Imaging: Adobe		I Education18 to 22
•	Photoshop3	(In addi	tion to courses listed above)
Graph	2275 Capstone: Print Production4		
•	'		NASAD accreditation requires a three credit Art
The Dic	gital Prepress Production certificate requires a		course to fulfill the Humanities and Fine Arts general
-	41 credits in the courses listed below. Code 4532	educati	on requirement. Choose one of the following:
		Art	2211 Art History I: To 13003
Graph	1101 Printing Methods and Processes3	Art	2212 Art History II: 1300 to 17503
Graph	1102 Introduction to Graphic Publishing	Art	2213 Art History III: 1750 to Present3
	Applications3	Art	2214 Introduction to Non-Western Art3
Graph	4400 Oalan Danna duation Tablesianosa		
Graph	1160 Color Reproduction Techniques3		
Graph	1183 Digital Page Layout: QuarkXPress3	Total C	redits Required66 to 70

CERTIFICATES

The Graphic Design Level I certificate provides a
foundation in the principles and elements of design,
typography, drawing and illustration, using traditional and
digital design tools and software. This certificate requires
24 credits in the courses listed below. Code 4616
Grden 1100 Drawing for Decign

Grusii	1100	Drawing for Design)
Grdsn	1102	Graphic Design I3	3
Grdsn	1104	Typography3	3
Grdsn	1105	Graphic Design II3	3
Grdsn	1106	Three-Dimensional Design3	3
Grdsn	1107	Digital Illustration I3	3
Grdsn	1108	Digital Illustration II3	3
Grdsn	1102	Introduction to Graphic	
		Publishing Applications3	}

The **Graphic Design Level II certificate** provides advanced studies in graphic design, including identity. advertising and web design, as well as simulated studio work. This certificate requires 24 credits in the courses listed below. Code 4617

Grdsn	2201	Graphic Design III	3
Grdsn	2202	Web/Interactive Design I	3
Grdsn	2203	Advertising Design	3
Grdsn	2204	Digital Illustration III	3
Grdsn	2205	Graphic Design IV	3
Grdsn	2206	Web/Interactive Design II	3
Grdsn	2207	New Media Design	3
Grdsn	2208	Portfolio Seminar	3

The **Web Design certificate** provides a foundation in design, principles of interactivity and the use of webauthoring software. This certificate requires 21 credits in the courses listed below Code 4620.

tile cours	the courses listed below. Code 4620			
Grdsn	1102	Graphic Design I	.3	
Grdsn	1105	Graphic Design II	.3	
Grdsn	1107	Digital Illustration I	.3	
Grdsn	2201	Graphic Design III	.3	
Grdsn	2202	Web/Interactive Design I	.3	
Grdsn	2206	Web/Interactive Design II	.3	
Grdsn	2207	New Media Design	.3	

Health Information Technology

AAS Degree, Four Certificates

A health information professional collects, analyzes and manages the information that steers the health care industry. At the heart of the profession's information responsibilities are records, both computer-based and paper, of an individual's health care. The health information professional orchestrates the collection of many kinds of documentation from a variety of sources, monitors the integrity of the information, and ensures appropriate access to the individual record. The professional also manages aggregate data based on the care of patients. The professional collects health care data by abstracting and encoding information, by using computer programs to interpret data, and by putting in place quality controls to ensure the data's validity. This program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). This degree program consists of a total of 68 credits in general education and program requirements. The following list contains the required courses, some of which may be used to meet general education requirements.

AAS DEGREE PROGRAM REQUIREMENTS Code 3152

Oodc oi	02	
Hit	1101	Fundamentals of Health Information Technology4
1.19	4400	
Hit		Clinical Classification Systems5
Hit		Computerized Health Data and Statistics4
Hit		CPT Coding3
Hit		Clinical Reimbursement Methodologies3
Hit	2201	Legal and Qualitative Aspects of
		Health Information5
Hit	2202	Management of Health Information3
Hit	2203	Pharmacology for HIT Professionals3
Hit	2211	Pathophysiology for Health Information4
Hit	2221	Clinical I3
Hit	2231	Clinical II5
Anat&	1500	Survey of Human Anatomy and
		Physiology4
Cis	1150	Introduction to Computer Information Systems
Engli	1101	English Composition I
Engli Hlths		
		Biomedical Terminology4
Math		Mathematics for Health Sciences3
Psych		General Psychology3
Speec	1100	Fundamentals of Speech
	OR	Communication3
Speec		Small-Group Communication3
opooo	OR	
 Speec	1150	Introduction to Business
•		Communication3
		65
General	Educ	ation3
Take thre	ee cred	dits in the Humanities in addition to those
courses	listed	above. The following course is

CERTIFICATES

recommended:

Philo

The **Medical Transcription certificate** prepares students to transcribe medical reports, e.g. surgical reports, consultation reports and discharge summaries. Medical transcriptionists are medical word specialists and are employed in hospitals, clinics, doctors' offices, other health care facilities, and even out of the home. Transcription students take courses in English, medical terminology, anatomy and physiology, pathophysiology, word processing and medical transcription. A medical transcriptionist must have above average typing skills and the ability to work with mechanical transcribing equipment. The program consists of 33 hours in the courses listed below. Code 4152

1112 Biomedical Ethics.....3

Total Credits Required68

PROGRAM REQUIREMENTS

Hlths	1110	Biomedical Terminology	4
Anat&	1500	Survey of Human Anatomy and	
		Physiology	4
Hit	2203	Pharmacology for HIT Professionals	3
Hit	2211	Pathophysiology for Health	
		Information	4
Hit	2223	Medical Transcription I	3
Hit	2224	Medical Transcription II	3

Ofti	1210	Word Processing I	.3
Ofti	2305	Word Processing Transcription	.3
		English Composition I	
		3	30
Program	Flec	tives	3
		ne following:	
		CPT Coding	.3
		ICD Coding for Physicians	
		3 ,	
The Phys	sician	Office Coding and Billing certificate	
requires a	a total	of 13 credit hours in the following courses	
Code 415			
		Biomedical Terminology	
		CPT Coding	
		Coding for Physicians	
Hit	1121	Billing in Physician's Offices	.3
TI A			
		althcare Coding certificate requires a tota	aı
		urs in the following courses. Code 4155	
		Biomedical Terminology	.4
Anat&	1500	Survey of Human Anatomy and	
		Physiology	.4
Hit	1101	Fundamentals of Health Information	
1.124	4400	Technology	.4
		Clinical Classification Systems	
		Clinical Reimbursement Methodologies	
Hit	2211	Pathophysiology for Health Information	.4
The Amb	ulato	ry Coding certificate requires a total of 24	1
		the following courses. Code 4156	
Hlths	1110	Biomedical Terminology	4
Anat&	1500	Survey of Human Anatomy and	
, and d	.000	Physiology	.4
Hit	1101	Fundamentals of Health Information	
		Technology	.4
Hit	1102	Clinical Classification Systems	.5
Hit	1107	CPT Coding	.3
		Pathophysiology for Health Information	

Health Sciences

AAS Degree, Five Certificates

The Medical Assistant degree is for health care professionals who perform routine administrative and clinical tasks within a medical office. Duties may include but are not limited to: greeting patients, answering telephones, billing and coding, maintaining medical records, completing medical histories, completing basic clinical assessments, recording vital signs, preparing patients for examination, collecting blood specimens, performing basic laboratory tests, performing EKGs, preparing and administrating medications and assisting physician with treatment and/or minor procedures. This degree program consists of a minimum of 64 credits in program requirements from the courses listed below.

AAS DEGREE PROGRAM REQUIREMENTS Code 3163

Hlths	1110	Biomedical Terminology	4
Hlths		Introduction to Clinincal Lab Science	
Hlths	1122	Basic Phlebotomy Techniques	4
Hlths	1124	Phlebotomy Clinical	2
Hlths	1126	Basic Non-Invasive Electrocardiology	
		(EKG)	2

	Hlths	1130	Medical Assistant Administrative	
			Procedures	.3
	Hlths	2211	Legal and Ethical Aspects of	
			Health Care	
	Hlths	2233	Pathophysiology for Medical Assisting	.3
	Hlths	2235	Pharmacology for Medical Assisting	.3
	Hlths	2239	Medical Assistant Clinical Procedures	3
	Hlths	2250	Medical Assistant Clinical Externship	.3
	Anat&	1500	Survey of Human Anatomy and	
			Physiology	.4
	Cis	1150	Introduction to Computer Information	
			Systems	3
		OR	•	
L	Ofti	1200	MS Office for Professional Staff	.2
Г	Engli	1101	English Composition I	3
		OR		
L	Engli	1105	Introduction to Technical Writing	3
	Hit		CPT Coding	
	Hit	1120	ICD Coding for Physicians	.3
	Hit	1121	Billing in Physician Offices	
	Math	1102	Mathematics for Health Sciences	.3
Г	Philo	1112	Biomedical Ethics	3
		OR		
L	Philo	1114	Business Ethics	.3
	Psych	1100	General Psychology	.3
	Speec	1100	Fundamentals of Speech	
			Communication	3
		OR		
	Speec	1120	Small-Group Communication	3
		OR		
L	Speec	1150	Introduction to Business	
			Communication	.3
			•	34
	OFDEIG		FC	

CERTIFICATES

Certified Nursing Assistant certificate

Certified Nursing Assistants are entry-level providers of direct patient care in today's health care environment, including long-term care, hospitals, home health agencies, rehabilitation and hospice. Routine care and treatment are administered by the nursing assistant under the direct supervision of a nurse. Nurse aide training is completed in one term of instruction that is comprised of lecture, lab and clinical. Both day and evening classes are offered.

The Certified Nursing Assistant program meets the guidelines set by federal and state government. Successful completion of this approved program qualifies the individual to sit for the state competency evaluation and to be entered on the Illinois Department of Public Health Nurse Aide Registry.

The Certified Nursing Assistant certificate requires a total of six credits obtained by the course listed below. Code 4158

1105 Nurse Assistant6

Phlebotomy/EKG certificate

Hlths

Phlebotomists are health care professionals who collect blood specimens for laboratory testing. The study of the electrical activity of the heart is included as phlebotomists are performing electrocardiograms (EKGs). Phlebotomists are presently employed in a variety of patient-care settings including hospitals, clinics, laboratories and physician offices. Courses are offered day or evening, with the clinical component during the day. Individuals who have health care backgrounds, such as CAN, EMT and LPN, can also consider taking these courses. CPR certification

for health care workers is required prior to beginning clinical training. Open enrollment is available.

The Non-Invasive Electrocardiography Technician certificate program prepares students to work in cardiology performing non-invasive cardiographic tests, including EKGs, Holter monitors and treadmill stress testing. This certificate requires a total of 10 credits in the courses listed below. Code 4163

Hlths	1110	Biomedical Terminology	.4
Hlths	1126	Basic Non-Invasive Electrocardiography	
		(EKG)	.2
Hlths	1128	Advanced Non-Invasive	
		Electrocardiography (EKG)	.3
Hlths	1129	Non-Invasive Electrocardiography	
		Clinical	1

Medical Assistant certificate

The Medical Assistant performs routine administrative and clinical tasks within a medical office. Duties may include but are not limited to: greeting patients, answering telephones, billing and coding, maintaining medical records, completing medical histories, completing basic clinical assessments, recording vital signs, preparing patients for examination, collecting blood specimens, performing basic laboratory tests, performing EKGs, preparing and administrating medications and assisting physician with treatment and/or minor procedures. This certificate requires a total of 52 credits in the courses listed below. Code 4165

Hlths	1110	Biomedical Terminology	4
Hlths	1120	Introduction to Clinincal Lab Science	3
Hlths	1122	Basic Phlebotomy Techniques	4
Hlths	1124	Phlebotomy Clinical	2
Hlths	1126	Basic Non-Invasive Electrocardiology (EKG)	2
Hlths	1130	Medical Assistant Administrative	
		Procedures	3
Hlths	2211	Legal and Ethical Aspects of	
		Health Care	2
Hlths	2233	Pathophysiology for Medical Assisting	3
Hlths	2235	Pharmacology for Medical Assisting	3
Hlths	2239	Medical Assistant Clinical Procedures	3
Hlths	2250	Medical Assistant Clinical Externship	3

	Anat&	1500 Survey of Human Anatomy and	
		Physiology	4
_	Cis	1150 Introduction to Computer Information	
		Systems	3
		OR	
L	Ofti	1200 MS Office for Professional Staff	3
	Hit 1107	CPT Coding	3
	Hit 1120	ICD Coding for Physicians	3
		Billing in Physician Offices	
		1100 General Psychology	
	-		

Horticulture

AAS Degree, Six Certificates

The Horticulture program meets the needs of students entering the horticulture industry as well as those presently employed who wish to continue their professional growth. Besides providing horticultural knowledge and skills, the program emphasizes the business and management proficiency necessary to compete successfully in the horticulture industry.

The **Horticulture degree** program consists of a total of 64 credits in program requirements, program electives and general education. The following list contains the required courses, some of which may be used to meet general education requirements.

AAS DEGREE PROGRAM REQUIREMENTS Code 3338

	Code 3336				
	Hort	1100	Introduction to Horticulture	3	
	Hort	1101	Soils and Fertilizers	3	
	Hort	1110	Applied Plant Taxonomy	3	
Г	Hort	1130	Horticulture Business	3	
		OR			
L	Busin		Introduction to Business		
	Hort		Plant Propagation	3	
	Hort	2863	Cooperative Education/Internship		
			(Occupational)	3	
	Biolo	1151		5	
		OR			
L	Chem	1211	General Chemistry	5	
	Math	1104	Mathematics for Horticulture		
				26	
	Elective	s		2	
			ltural or Contemporary Life Skills		
			tives	04	
	Soloct	minim	um of 24 credits from the courses listed	.24	
	below.		uni di 24 credits nom the courses listed		
	Hort	1105	Floral Design I	3	
	Hort	1111	Landscape Design I	o	
	Hort		Landscape Maintenance and	0	
	TIOIT	1112	Construction	3	
	Hort	1115	Floral Design II		
	Hort		Landscape Graphics		
	Hort		Arboriculture		
		าเหล			
	Hort				
	Hort Hort	1820	Selected Topics	3	
		1820 1821	Selected Topics	3 3	
	Hort	1820 1821 1824	Selected Topics	3 3 2	
	Hort Hort	1820 1821 1824 1826	Selected Topics Selected Topics Selected Topics Selected Topics	3 2 1	
	Hort Hort Hort	1820 1821 1824 1826 1827	Selected Topics Selected Topics Selected Topics Selected Topics Selected Topics	3 2 1	
	Hort Hort Hort Hort	1820 1821 1824 1826 1827 2225	Selected Topics Selected Topics Selected Topics Selected Topics	3 2 1 1	

Hort	2241	Landscape Plants I3	Hort	1140	Landscape Graphics	2
Hort		Landscape Plants II3	Hort		Landscape Plants I	
Hort		Ornamental Grasses2	Hort		Landscape Plants II	
Hort		Herbaceous Perennials3	Hort		Herbaceous Perennials	
Hort		Diseases of Ornamental Plants3	Hort		Landscape Design II	
Hort		Greenhouse Operations and Procedures3	Hort		Cooperative Education/Internship	
Hort		Greenhouse Crop Production3			(Occupational)	3
Hort		Bedding Plant Production3	Math	1104	Mathematics for Horticulture	
Hort		Insects of Ornamental Plants3	Arch		Basic Computer-Aided Drafting —	_
Hort		Landscape Design II3	7 0		AutoCad	3
Hort		Experimental Pilot Class1 to 6				_
11011	20.0	Exportmental First Glass	The Gr	eenhou	ise Management certificate requires 24	
When se	electing	g program electives, students may include			ourses listed below. Code 4349	
		in any combination from the additional	Hort		Introduction to Horticulture	3
courses			Hort		Soils and Fertilizers	
Arch		Basic Computer-Aided Drafting —	⊢ Hort		Horticulture Business	
711011	1211	AutoCad3	11011	OR	Tiornoaltare Basiness	0
Hort	1800	Experiential Special Topics1 to 3	Busin		Introduction to Business	3
Hort		Cooperative Education/Internship	Hort		Plant Propagation	
HOIL	2007	Advanced (Occupational)2	Hort		Greenhouse Operations and Procedures	
Hort	2868	Cooperative Education/Internship	Hort		Greenhouse Crop Production	
HOIL	2000	Advanced (Occupational)3	Hort		Bedding Plant Production	
		Advanced (Occupational)				S
		ation12	Hort	2003	Cooperative Education/Internship	2
(In addit	ion to	the courses listed above)			(Occupational)	J
Total Cr	edits F	Required64	Tho I a	ndecon	o and Turf Maintonance cortificate	
					e and Turf Maintenance certificate of 33 credits in the courses listed below.	
CERTIF	FICAT	ES	Code 4		of 33 credits in the courses listed below.	
_	_		Code 4	1001		
		re certificate requires 15 credits in the	PROG	BAM F	REQUIREMENTS	
		below. Code 4346				
Hort		Introduction to Horticulture3	Hort		Introduction to Horticulture	
Hort		Soils and Fertilizers3	Hort		Soils and Fertilizers	
Hort		Applied Plant Taxonomy3	Hort		Applied Plant Taxonomy	3
Hort		Horticulture Business3	Hort	1112	Landscape Maintenance and	
Hort	2221	Plant Propagation3			Construction	
			Hort		Turf Science and Management	
		op Management certificate requires 24	Hort		Diseases of Ornamental Plants	
credits in	n the c	ourses listed below. Code 4347	Hort		Insects of Ornamental Plants	3
DD001		DECLUDENTED TO	Hort	2863	Cooperative Education/Internship	
PROGR	KAIVI I	REQUIREMENTS			(Occupational)	3
Hort	1100	Introduction to Horticulture3	Math	1104	Mathematics for Horticulture	3
Hort	1105	Floral Design I3			_2	7
Hort	1115	Floral Design II3	Progra	m Elect	tives	6
Hort		Horticulture Business3			of the following courses.	•
	OR		Hort	-	Arboriculture	3
Busin	1100	Introduction to Business3	Hort		Landscape Plants I	
Hort		Specialty Floral Design3	Hort		Landscape Plants II	
Hort		Herbaceous Perennials3	Hort		Herbaceous Perennials	
Со-ор		Cooperative Education/Internship	HOIL	2244	Tierbaceous i erennais	J
		(Occupational)3	The Nu	ircory o	nd Garden Center Management	
		21			uires a total of 35 credits in the courses	
Flective	26	3			ode 4352	
		edits from any 1000- or 2000-level courses.	Hort		Introduction to Horticulture	2
Suggest						
Fashi		Visual Merchandising3	Hort		Soils and Fertilizers	
Hort		Bedding Plant Production3	Hort		Horticulture Business	3
11011	2201	bodding Flant Floadolloff	Durain	OR	Introduction to Ducinson	_
The Lan	decan	e Design and Construction certificate	∟ Busin		Introduction to Business	
	-	edits in the courses listed below. Code 4348	Hort		Plant Propagation	
Hort		Introduction to Horticulture3	Hort		Landscape Plants I	
Hort		Soils and Fertilizers3	Hort		Landscape Plants II	
Hort			Hort		Ornamental Grasses	
		Landscape Design I	Hort		Herbaceous Perennials	
Hort	1112	Landscape Maintenance and	Hort		Diseases of Ornamental Plants	
		Construction3	Hort	2267	Insects of Ornamental Plants	J

Hort 2863 Cooperative Education/Internship (Occupational)	The Hotel Operations certificate requires 31 credits in the courses listed below. Code 4236		
Math 1104 Mathematics for Horticulture3	Hotel 1100 Introduction to the Hospitality Industry3		
Water Trot Water of Hattor for Hortical and Hilling	Hotel 2202 Hotel Marketing Management		
	Hotel 2211 Rooms Division Operations		
Hotel and Ladging Management	Hotel 2212 Hotel Facilities Operations Management3		
Hotel and Lodging Management	Hotel 2240 Quality Management of Service in the		
AAS Degree, Four Certificates			
The Hotel and Lodging Management program and	Hospitality Industry3		
courses are designed to develop career-building skills	Hotel 2251 Techniques of Supervision2		
important for success in the exciting lodging industry. The	Hotel 2253 Professional Meeting and Event		
degree program consists of a total of 66 to 70 credits in	Management3		
general education, program requirements and program	Hotel 2285 Advanced Hospitality Operations3		
electives. The following list contains the required courses.	Foods 1101 Culinary Arts: Quantity Food		
olooni oo in olooni ilgaa oo ilaan oo iloo oo qan oo	Preparation I5		
AAS DEGREE	Co-op 2863 Cooperative Education/Internship		
PROGRAM REQUIREMENTS	(Occupational)3		
Code 3236			
	The Hotel Food and Beverage certificate requires 30 to		
Hotel 1100 Introduction to the Hospitality Industry3	31 credits in the courses listed below. Code 4238		
Hotel 1130 Hospitality Industry Accounting3	Hotel 2202 Hotel Marketing Management3		
Hotel 2202 Hotel Marketing Management3	Hotel 2240 Quality Management of Service in the		
Hotel 2211 Rooms Division Operations3	Hospitality Industry3		
Hotel 2212 Hotel Facilities Operations Management 3	Hotel 2251 Techniques of Supervision2		
Hotel 2230 Law for the Hospitality Industry2	Foods 1101 Culinary Arts: Quantity Food		
Hotel 2240 Quality Management of Service in the	Preparation I5		
Hospitality Industry3	Foods 1102 Culinary Arts: Quantity Food		
Hotel 2251 Techniques of Supervision2	Preparation II5		
Hotel 2253 Professional Meeting and Event	Foods 1151 Food and Beverage Service and Sales2		
Management3	Foods 1152 Food, Beverage and Equipment		
Hotel 2285 Advanced Hospitality Operations3	Purchasing3		
Foods 1101 Culinary Arts: Quantity Food	OR		
Preparation I5			
Foods 1102 Culinary Arts: Quantity Food	9 9 1		
	5 1		
Preparation II	Management3		
Co-op 2863 Cooperative Education/Internship	Foods 2220 Foodservice Sanitation		
(Occupational)3	Co-op 2863 Cooperative Education/Internship		
41	(Occupational)3		
Program Electives5	The Hetal Color and Marketing contificate requires 06		
Select five credits from below. Other management and	The Hotel Sales and Marketing certificate requires 26		
accounting courses may be taken as program electives.	credits in the courses listed below. Code 4239		
Consult with a faculty adviser for approval.	Hotel 1100 Introduction to the Hospitality Industry3		
Foods 1151 Food and Beverage Service and Sales2	Hotel 2202 Hotel Marketing Management3		
Foods 2203 Professional Catering and Banquet	Hotel 2211 Rooms Division Operations3		
Management3	Hotel 2240 Quality Management of Service in the		
Foods 2204 Wines of the World2	Hospitality Industry3		
Foods 2261 Beverage Management Operation2	Hotel 2253 Professional Meeting and Event		
Foods 2262 Restaurant Beverage Service-Mixology2	Management3		
	Foods 1101 Culinary Arts: Quantity Food		
Electives2	Preparation I5		
Select two credits in Global/Multicultural Studies or	Foods 2203 Professional Catering and Banquet		
Contemporary Life Skills.	Management3		
General Education18 to 22	Co-op 2863 Cooperative Education/Internship		
(In addition to the courses listed above)	(Occupational)3		
,			
Total Credits Required66 to 70			
	Human Services		
CERTIFICATES	Seven AAS Degrees, Five Certificates		
The Hotel Foundations certificate requires 11 credits in	-		
the courses listed below. Code 4234	The Human Services program provides beginning		
Hotel 1100 Introduction to the Hospitality Industry3	professional training for human service agency jobs.		
Hotel 2211 Rooms Division Operations3	AAS DECREES		
	AAS DEGREES		
Hotel 2240 Quality Management of Service in the	The Human Services Generalist degree program		
Hotel 2251 Techniques of Supervision 2	consists of 69 to 70 credits in general education and		

2251 Techniques of Supervision.....2

Hotel

program requirements. The following list contains the required courses, some of which may be used to meet general education requirements. This program is approved by the Council on Standards in Human Service Education.

PROGRAM REQUIREMENTS Code 3467

00000101	
	Introduction to Human Services4
Human 1113	Interpersonal Dynamics4
Human 1114	Contemporary Treatment Approaches3
Human 1115	Behavior Modification4
Human 1121	Cross-Cultural Communications3
Human 1125	Introduction to Addictions4
- Human 1141	Psychiatric Rehabilitation4
OR	
- Human 1165	Dynamics of Child Abuse3
Human 1170	Role of Advocacy in Human Services2
Human 1175	Crisis Intervention2
Human 1180	Domestic/Family Violence4
Human 2212	Group Dynamics5
Human 2279	Ethics in Counseling2
Human 2240	Family Education and Treatment Models3
Human 2223	Generalist Practice I2
Human 2251	Fieldwork I4
	49 to 50
General Educ	eation20
	the courses listed above)
Total Credits I	Required 69 to 70

The **Applied Gerontology degree** program consists of a total of 70 credits in general education and program requirements. The following list contains the required courses, some of which may be used to meet general education requirements. This program is approved by the Council on Standards in Human Service Education.

PROGRAM REQUIREMENTS Code 3468

	••		
Human	1100	Introduction to Human Services4	
Human	1113	Interpersonal Dynamics4	
Human	1114	Contemporary Treatment Approaches3	
Human	1115	Behavior Modification4	
Human	1121	Cross-Cultural Communications3	
Human	1125	Introduction to Addictions4	
Human	1170	Role of Advocacy in Human Services2	
Human	2212	Group Dynamics5	
Human	2213	Grief Counseling3	
Human	2214	Older Adult Care Management4	
Human	2223	Generalist Practice I2	
Human	2240	Family Education and Treatment Models3	
Human	2251	Fieldwork I4	
Human	2279	Ethics in Counseling2	
Psych	2237	Developmental Psychology:	
		The Life Span3	
		50	
General Education			
Total Credits Required70			

The Addictions Counseling degree program consists of a minimum of 68 credits in general education and program requirements. The following list contains the required courses, some of which may be used to meet general education requirements. This program is approved by the Council on Standards in Human Service Education.

PROGRAM REQUIREMENTS Code 3469

Human	1100	Introduction to Human Services	4		
Human	1113	Interpersonal Dynamics	4		
Human		Contemporary Treatment Approaches			
Human	1115	Behavior Modification	4		
Human	1121	Cross-Cultural Communications	3		
Human	1125	Introduction to Addictions	4		
Human	1126	Psychopharmacology for Addictions			
		Counselors	3		
Human		Group Dynamics			
Human	2223	Generalist Practice I	2		
Human	2225	Addictions Counseling I	4		
Human	2226	Addictions Counseling II	3		
Human	2240	Family Education and Treatment Models	3		
Human	2251	Fieldwork I	4		
Human	2279	Ethics in Counseling	2		
		- -	48		
General	Educ	ation	.20		
	(In addition to the courses listed above)				
		,			
Program Electives					
Advance	d deg	ree requirements could include:			
		Fieldwork II			
Human	2280	Addictions Counseling III	3		
Total Credits Required68					
		-			

The **Corrections Counseling degree** program consists of a total of 70 credits in general education and program requirements. The following list contains the required courses, some of which may be used to meet general education requirements. This program is approved by the Council on Standards in Human Service Education.

PROGRAM REQUIREMENTS Code 3470

Human	1100	Introduction to Human Services	1
Human		Interpersonal Dynamics	
Human		Contemporary Treatment Approaches	
Human		Behavior Modification	
Human		Cross-Cultural Communications	
Human	1125	Introduction to Addictions	1
Human	1170	Role of Advocacy in Human Services2	2
Human	2212	Group Dynamics	5
Human	2200	Introduction to the Juvenile Justice	
		System	1
Human	2223	Generalist Practice I	2
Human		Family Education and Treatment Models3	
Human		Fieldwork I	
Human	2279	Ethics in Counseling	2
Crimj	1100	Introduction to Criminal Justice	3
Psych	2237	Developmental Psychology: The Life Span3	3
		50	Ō
General Education			
Total Credits Required70			

The **Developmental Disability degree** program consists of a total of 70 credits in general education and program requirements. The following list contains the required courses, some of which may be used to meet general education requirements. This program is approved by the Council on Standards in Human Service Education.

PROGRAM REQUIREMENTS PROGRAM REQUIREMENTS Code 3471 Code 3474 Human 1100 Introduction to Human Services......4 Human 1100 Introduction to Human Services.....4 Human 1113 Interpersonal Dynamics......4 Human 1113 Interpersonal Dynamics......4 Human 1114 Contemporary Treatment Approaches......3 Human 1114 Contemporary Treatment Approaches......3 Human 1115 Behavior Modification4 Human 1115 Behavior Modification4 Human 1121 Cross-Cultural Communications3 Human 1121 Cross-Cultural Communications3 Human 1125 Introduction to Addictions......4 Human 1125 Introduction to Addictions......4 Human 1170 Role of Advocacy in Human Services2 Human 1165 Dynamics of Child Abuse3 Human 1170 Role of Advocacy in Human Services2 Human 1175 Crisis Intervention.....2 Human 1190 Introduction to Developmental Human 1175 Crisis Intervention......2 Disabilities.....5 Human 1180 Domestic/Family Violence4 Human 2212 Group Dynamics......5 Human 2212 Group Dynamics......5 Human 2223 Generalist Practice I2 Human 2223 Generalist Practice I.....2 Human 2240 Family Education and Treatment Models...3 Human 2240 Family Education and Treatment Models...3 Human 2251 Fieldwork I.....4 Human 2251 Fieldwork I......4 Human 2279 Ethics in Counseling2 Human 2279 Ethics in Counseling2 2237 Developmental Psychology: 2237 Developmental Psychology: Psych Psych The Life Span.....3 The Life Span.....3 General Education20 General Education20 (In addition to the courses listed above) (In addition to the courses listed above) Total Credits Required70 Total Credits Required72 The Residential Child Care degree program consists of **CERTIFICATES** a total of 67 credits in general education and program The **Human Services certificate** requires 49 to 50 credits requirements. The following list contains the required in the courses listed below. Code 4467 courses, some of which may be used to meet general Human 1100 Introduction to Human Services......4 education requirements. This program is approved by the Human 1113 Interpersonal Dynamics......4 Council on Standards in Human Service Education. Human 1114 Contemporary Treatment Approaches......3 Human 1115 Behavior Modification4 PROGRAM REQUIREMENTS Human 1121 Cross-Cultural Communications3 Code 3473 Human 1125 Introduction to Addictions......4 Human 1100 Introduction to Human Services......4 Human 1141 Psychiatric Rehabilitation.....4 Human 1113 Interpersonal Dynamics......4 OR Human 1114 Contemporary Treatment Approaches......3 Human 1165 Dynamics of Child Abuse3 Human 1115 Behavior Modification4 Human 1170 Role of Advocacy in Human Services2 Human 1121 Cross-Cultural Communications3 Human 1175 Crisis Intervention......2 Human 1125 Introduction to Addictions......4 Human 1180 Domestic/Family Violence4 Human 1160 Residential Child Care2 Human 2212 Group Dynamics......5 Human 1165 Dynamics of Child Abuse3 Human 2223 Generalist Practice I2 Human 1170 Role of Advocacy in Human Services2 Human 2240 Family Education and Treatment Models...3 Human 1175 Crisis Intervention......2 Human 2251 Fieldwork I......4 Human 2212 Group Dynamics.....5 Human 2279 Ethics in Counseling2 Human 2223 Generalist Practice I2 Human 2240 Family Education and Treatment Models...3 The **Applied Gerontology certificate** requires 50 credits Human 2251 Fieldwork I4 in the courses listed below. Code 4468 Human 2279 Ethics in Counseling2 Human 1100 Introduction to Human Services......4 Human 1113 Interpersonal Dynamics......4 Human 1114 Contemporary Treatment Approaches......3 General Education20 Human 1115 Behavior Modification4 (In addition to the courses listed above) Human 1121 Cross-Cultural Communications3 Total Credits Required67 Human 1125 Introduction to Addictions......4 Human 1170 Role of Advocacy in Human Services2 The **Domestic/Family Violence degree** program consists Human 2212 Group Dynamics.....5 of a total of 72 credits in general education and program Human 2213 Grief Counseling3 requirements. The following list contains the required Human 2214 Older Adult Care Management......4 courses, some of which may be used to meet general Human 2223 Generalist Practice I2 education requirements. This program is approved by the Human 2240 Family Education and Treatment Models...3 Council on Standards in Human Service Education. Human 2251 Fieldwork I.....4 Human 2279 Ethics in Counseling2 Psych 2237 Developmental Psychology:

The Life Span.....3

		s Counseling certificate requires 48	
		ourses listed below. Code 4469	
Human		Introduction to Human Services	
Human		Interpersonal Dynamics	
Human	1114	Contemporary Treatment Approaches	3
Human		Behavior Modification	
Human		Cross-Cultural Communications	
Human		Introduction to Addictions	4
Human	1126	Psychopharmacology for Addictions	_
Lluman	2010	Counselors	პ
Human Human		Group Dynamics	
Human		Addictions Counseling I	
Human		Addictions Counseling I	
Human		Family Education and Treatment Models	
Human		Fieldwork I	
Human		Ethics in Counseling	
Haman	2210	Lunos in Couriscing	
Progran	n Elec	tives	
_		ificate Standing (optional)	
		ollowing additional seven credit hours.	
		Fieldwork II	.4
Human	2280	Addictions Counseling III	3
		· ·	
		ervices Domestic/Family Violence	
		uires a minimum of 49 to 50 credits in the	
		below. Code 4474	
		Introduction to Human Services	
		Interpersonal Dynamics	
		Contemporary Treatment Approaches	
		Behavior Modification	
Human		Cross-Cultural Communications	
Human		Introduction to Addictions	
Human		Psychiatric Rehabilitation	4
Lluman	OR	Dynamics of Child Abuse	2
Human Human		Dynamics of Child AbuseRole of Advocacy in Human Services	
Human		Crisis Intervention	
Human		Domestic/Family Violence	
Human		Group Dynamics	
Human		Generalist Practice I	
		Family Education and Treatment Models	
		Fieldwork I	
Human		Ethics in Counseling	
Haman	LLIO	Lunos in Couriscing	
The Psv	chiatr	ic Rehabilitation certificate requires 20	
		ourses listed below. Code 4476	
		Psychiatric Rehabilitation	.4
Human		Psychiatric Rehabilitation Skills	
Human		Health Skills for Psychiatric	•
		Rehabilitation	.4
Human	1144	Vocational and Community Living	

Integrated Engineering Technology (InET) *AAS Degree*

Human 2251 Fieldwork I.....4

Integrated Engineering Technology (InET) is a two-year program leading to an AAS degree. It is an designed to meet industry needs for multifunctional technicians competent in mechanics, computers, telecommunications and electronics technology. As InET engineering technicians, students may work individually or as members

of a professional team, applying aspects of scientific and engineering concepts to the implementation of existing technologies and the creation of new technologies. After completion of the program, students may work in an engineering technology field in an area such as wireless telecommunications, or transfer to a four-year institution. This new and innovative program uses an activity-based approach to learning. Students work in teams on real industrial projects. Mathematics, speech, English and technical subject components are applied and integrated into a common context.

PROGRAM REQUIREMENTS Code 3914

Flact 4404 Oinsuita I

Elect	1101	Circuits I	3	
Elect	1141	Digital Fundamentals	3	
Elect	1151	Electronic Devices and Applications I	4	
Elect	1161	Electronic Communication I	4	
Elect	2241			
Elect		Wireless Telecommunications II		
Elect		Real-Time Systems and Programming		
Elect		Industrial Controls		
Engli		English Composition I		
Engli		English Composition II		
Manuf	1101	Industrial Design/CAD	3	
Manuf		Technical Mechanics		
Manuf		Quality Control	3	
Manuf	1190	Introduction to Programmable Logic		
		Controllers		
Math		Technical Mathematics I		
Math	1116	Technical Mathematics II		
Physi	1100	Physics		
Physi	1201	General Physics I	5	
Speec	1100	Fundamentals of Speech		
		Communication		
			63	
General Education6				
Six additional credits in:				
Humanit	ties: 3	semester hours		
Social a	nd Bel	navioral Sciences: 3 semester hours		
Total Credits Required69				

Interior Design

AAS Degree, Three Certificates

Interior designers are responsible for the health, safety and welfare of the public by improving the quality of life related to interior spaces and the design of functional environments. The professional interior designer is qualified by education, experience and examination (NCIDQ) to perform a variety of tasks including: analyzing the client's needs, goals and life/safety requirements; formulating preliminary design concepts that are appropriate, functional and aesthetic; developing and presenting working drawings (for non-load bearing walls) floor plans, lighting plans and furniture plans; specifying furniture surface materials and finishes; and preparing and administering bids, contracts and professional services necessary to successful implementation of final design solution. The Interior Design degree consists of a minimum of 69 to 71 credits. This total combines Interior Design courses and general education requirements.

AAS DEGREE 1180 Professional Practice and Ethics2 Inter PROGRAM REQUIREMENTS 1190 Barrier-Free and Life-Safety Codes3 Inter Code 3539 Inter Inter 2220 Interior Architectural Details.....2 Inter 1110 Drafting Interiors......3 Inter 2311 Lighting I......3 Inter 1120 Interior Systems2 Inter 2410 Residential Design Studio......3 Inter 1130 Perspective Techniques2 Inter 2511 Kitchen and Bath Design I3 Inter 1140 Color Rendering......2 Inter 2512 Kitchen and Bath Design II3 1151 Architecture and Design History I......3 Inter 2515 Kitchen and Bath Computer Applications ...3 Inter Inter 1152 Architecture and Design History II.............3 Co-op 2870 Cooperative Education/Internship Inter 1160 Environmental Textiles2 (Transfer).....1 to 4 1170 Environmental Materials and Applications .. 3 Inter 1180 Professional Practice and Ethics2 Inter The Advanced Computer Applications certificate Inter 1190 Barrier-Free and Life-Safety Codes3 requires 21 credits. Any required courses or prerequisite 2211 Computer Applications I3 Inter courses may be transferred from Interior Design AAS 2220 Interior Architectural Details.....2 Inter degree credits or may be met through review of Interior Inter 2311 Lighting I......3 Design professional portfolio skills and consent of Inter 2410 Residential Design Studio......3 coordinator. Code 4536 Inter 2420 Universal Design Studio3 Inter 1110 Drafting Interiors......3 Inter 2430 Contract Design Studio.....3 Inter 1120 Interior Systems2 Inter 2440 Office Design Studio3 1130 Perspective Techniques2 Inter Inter 2610 Portfolio Review......3 1190 Barrier-Free and Life-Safety Codes3 Inter Art 1151 2-D Design......3 Inter 2211 Computer Applications I3 Math 1100 Business Mathematics......3 2212 Computer Applications II3 Inter Psych 1100 General Psychology......3 2213 Computer Applications III3 Inter 2220 Interior Architectural Details.....2 Inter Select three credits from the courses listed below. The **Advanced Lighting certificate** requires 27 credits. 2870 Cooperative Education/Internship Any required courses or prerequisite courses may be Co-op (Transfer).....1 to 4 transferred from Interior Design AAS degree credits or may 2871 Cooperative Education/Internship be met through review of Interior Design professional Co-op Advanced (Transfer)1 to 4 portfolio skills and consent of coordinator. Code 4540 1153 Architecture and Design History: Inter Inter 1110 Drafting Interiors......3 1120 Interior Systems2 Non-Western Cultures3 Inter 1821 Selected Topics I3 Inter 1130 Perspective Techniques2 Inter 1840 Independent Study — Individualized ...1 to 4 Inter Inter 1190 Barrier-Free and Life-Safety Codes3 Inter 2212 Computer Applications II3 Inter 2213 Computer Applications III3 Inter 2212 Computer Applications II3 Inter 2213 Computer Applications III3 Inter Inter Inter 2450 Senior Design Studio3 Inter 2220 Interior Architectural Details.....2 Inter 2511 Kitchen and Bath Design I3 Inter 2311 Lighting I......3 Inter 2512 Kitchen and Bath Design II3 Inter 2312 Lighting II......3 2515 Kitchen and Bath Computer Applications ...3 Inter 2520 Furniture Design......3 Inter 2821 Advanced Selected Topics I3 Inter Library and Information Technology AAS Degree, Certificate General Education9 to 11 (In addition to the courses listed above) The Library and Information Technology program prepares students for paraprofessional levels of library service. Total Credits Required69 to 71 Courses are designed for beginning students with no previous experience, for those returning to the work force, **CERTIFICATES** or those upgrading skills. The degree program consists of The Advanced Kitchen and Bath Design certificate a minimum of 64 credits in general education, electives requires 44 to 47 credits. Any required courses or and program requirements. The following list contains the prerequisite courses may be transferred from Interior required courses. Design AAS degree credits or may be met through review of Interior Design professional portfolio skills and consent AAS DEGREE of coordinator. Code 4535 PROGRAM REQUIREMENTS Code 3651 Inter 1110 Drafting Interiors......3 Libra 1101 Introduction to Libraries and the Inter 1120 Interior Systems2 Information Age3 1130 Perspective Techniques2 Inter Libra 1102 Introduction to Reference and Inter 1151 Architecture and Design History I......3 Information Services.....4 Inter 1152 Architecture and Design History II..............3 Libra 1103 Acquisition of Library Materials......3 Inter 1160 Environmental Textiles2 Libra 1104 Essential Library Workplace Skills......3

1170 Environmental Materials and Applications ... 3

Inter

Libra 1820 Selected Topics in Libr	arianship3	courses, some of which may be used to meet general
Libra 2100 Introduction to Catalog		education requirements.
Libra 2200 Serving the Public in To		AAS DEGREE
Libra 2300 Multimedia Services ar Today's Library		PROGRAM REQUIREMENTS Code 3202
Libra 2600 Library Practicum		
Cis 1150 Introduction to Compu		Manag 2210 Principles of Management
	3	Manag 2240 Human Resource Management3
Manag 2220 Organizational Behavio		Accou 1140 Financial Accounting4
	37	Busin 1100 Introduction to Business
Electives	0	Buslw 2211 Business Law I
Select nine credits from any 1000- or 2		Cis 1150 Introduction to Computer Information Systems
General Education(In addition to the courses listed above		Cis 1221 Introduction to Spreadsheets3 — Econo 2201 Macroeconomics and the Global
Total Credits Required	64 to 68	Economy3
CERTIFICATE		Psych 1100 General Psychology3
The Library Technical Assistant car	tificate requires 21	Marke 2210 Principles of Marketing3
The Library Technical Assistant cer	•	Philo 1114 Business Ethics3
credits in the courses listed below, and proficiency exam. Code 4651	a keyboarding	34
Libra 1101 Introduction to Librarie	c and the	Dragram Electives
Information Age		Program Electives
Libra 1102 Introduction to Referen		Busin 1120 Fundamentals of Personal Investing3
Information Services		Busin 1161 Entrepreneurship3
Libra 1103 Acquisition of Library N		Busin 2200 Business Budgeting3
Libra 1104 Essential Library Work		Busin 2210 Principles of Finance3
Libra 1820 Selected Topics in Libr		Busin 2255 International Business
Libra 2100 Introduction to Catalog		Busin 2260 International Finance
Classification		Manag 1100 Supervision3
Libra 2200 Serving the Public in To	oday's Libraries4	Manag 1161 Small Business Management3
Libra 2300 Multimedia Services ar		Manag 1820 Selected Topics in Management3
Today's Library	3	Manag 2170 Project Management3
Libra 2600 Library Practicum	4	Manag 2215 Leadership3
		Manag 2230 Purchasing3
		Manag 2250 Operation/Production Management3
Long-Term Care Administrati	on	Manag 2260 International Management3
Certificate		General Education12 to 16
The Long-Term Care Administration	certificate requires	(In addition to the courses listed above)
13 credits in the courses listed below. Code 4197	·	Total Credits Required64 to 68
Ltc 1140 Introduction to Long-Te Administration		CERTIFICATES
Ltc 1151 Nursing Home Adminis		The E-Commerce certificate requires 15 credits in the
Practices ILtc 1152 Nursing Home Adminis	3	courses listed below. Code 4201
Practices II	3	PROGRAM REQUIREMENTS
Ltc 1161 Aging and Long-term (Ltc 1162 Aging and Long-term (Busin 1100 Introduction to Business3 OR
		Manag 1100 Supervision3 OR
Management		Marke 1100 Consumer Marketing3
AAS Degree, Six Certificates		Busin 1170 Electronic Business/Commerce3
The Management program prepares st	udents for	Marke 1170 E-Marketing3
management and supervisory careers		Marke 1175 Customer Relationship Management3
industry. Graduates may enter lower- to		12
management positions directly from co		Program Electives3
establish their own businesses. Employ		Choose one of the classes below:
include positions as production manag		Cis 1300 Web Design Software3
This degree program consists of a		Cis 1310 HTML and CSS3
credits in program requirements, gene		Manag 2170 Project Management3
program electives. The following list co		Marke 1171 Database Marketing3

T	
The Management certificate requires 31 credits in the courses listed below. Code 4202	Program Electives
Courses listed below. Code 4202	Busin 2200 Business Budgeting3
PROGRAM REQUIREMENTS	Busin 2255 International Business
	Busin 2260 International Finance
Manag 2210 Principles of Management	Manag 2210 Principles of Management
Manag 2220 Organizational Behavior	Manag 2220 Organizational Behavior3
Accou 1140 Financial Accounting4	Marke 2210 Principles of Marketing3
Busin 1100 Introduction to Business	Philo 1114 Business Ethics3
Buslw 2211 Business Law I	6
Cis 1150 Introduction to Computer Information	
Systems	The Organizational Leadership certificate requires 12
Marke 2210 Principles of Marketing3	credits in the courses listed below. Code 4218
25	Manag 2210 Principles of Management3
Brogram Floatives	Manag 2215 Leadership3
Program Electives	Manag 2220 Organizational Behavior3
Busin 2200 Business Budgeting3	Manag 2240 Human Resource Management3
Busin 2255 International Business	
Cis 1221 Introduction to Spreadsheets3	
Manag 1100 Supervision3	Manufacturing Technology
Manag 1161 Small Business Management3	Four AAS Degrees, Six Certificates
Manag 2170 Project Management3	The Manufacturing Technology program provides training
Manag 2215 Leadership3	in a wide variety of skill areas of product manufacturing and
Manag 2230 Purchasing3	services. The four degree options in the program are
Manag 2250 Operation/Production Management3	Automated Manufacturing Systems, Drafting/Design,
Manag 2260 International Management3	Manufacturing Technology and Manufacturing Engineering
	Technology. Automated Manufacturing is designed to
The Supervision certificate requires 12 credits in the	prepare the student for careers in computer-aided
courses listed below. Code 4208	manufacturing, robotics and numerical control.
Manag 1100 Supervision3	Drafting/Design prepares the student for careers in the
Busin 1100 Introduction to Business3	drafting and computer-aided design areas. Manufacturing
Cis 1150 Introduction to Computer	Technology provides the student with a broad background
Information Systems3	in the areas of machining, drafting and fluid systems so as
Manag 2220 Organizational Behavior3	to prepare them for entry level positions as machine
	operators, machine maintenance personnel and quality
The Entrepreneurship certificate requires 12 credits in	control personnel. The Manufacturing Engineering
the courses listed below. Code 4210	Technology degree prepares students for entry-level
DDOCDANA DEOLUDEMENTS	engineering technician positions in manufacturing.
PROGRAM REQUIREMENTS	AAS DEGREES
Busin 1161 Entrepreneurship3	
Manag 1161 Small Business Management	The Manufacturing Technology degree requires a
6	minimum of 64 credits in program requirements, program
	electives and general education in the courses listed below.
Program Electives6	DD CODALA DECUMPENTATIVE
Select six credits from the following courses:	PROGRAM REQUIREMENTS
Accou 1110 Accounting Procedures4	Code 3940
Accou 1175 Microcomputer Accounting	Manuf 1101 Industrial Design/CAD3
Buslw 2211 Business Law I	Manuf 1104 Technical Mechanics2
Manag 1100 Supervision	Manuf 1110 Metrology3
Marke 1100 Consumer Marketing3	Manuf 1141 Hydraulics and Pneumatics3
The Puninces Environment and Concents cortificate in	Manuf 1151 Machine Shop I3
The Business Environment and Concepts certificate is	Manuf 1153 Advanced Machine Processes3
designed for CPA Examination candidates who have a non-business baccalaureate degree. It requires 18 credits	Manuf 1180 Quality Control3
in the courses listed below. Code 4213	Manuf 2251 Computer Numerical Control (CNC)3
in the courses hated below. Code 4210	Elect 1100 Electricity and Electronics
PROGRAM REQUIREMENTS	Fundamentals
Busin 1100 Introduction to Business	Weld 1100 Welding I3
Busin 2210 Principles of Finance3	
Econo 2201 Macroeconomics and the Global	Program Electives16
Economy3	Select from the courses below.
Econo 2202 Microeconomics and the Global	Manuf 1121 Physical Metallurgy3
Economy3	Manuf 1171 Introduction to Robotic Technology3
12	Manuf 2201 Geometic Dimensioning and
12	Tolerancing3

Manut	2202 Solid Modeling and Design3	Manut	2203 Manu	ifacturing Processes and Design	3
Weld	1112 Oxy-Fuel, Welding, Plasma Cutting	Manuf	2206 Mech	anical Computer-Aided	
	and Brazing3			fting/Design	3
VA7 1 1					
Weld	1122 Shielded Metal Arc (SMAW)3	Manuf		Design	
Weld	1132 Gas Metal Arc (MIG)3	Manuf	2208 Mech	nanical Design Portfolio	3
Weld	1142 Gas Tungsten Arc (TIG)3	Elect	1100 Elect	ricity and Electronics	
_	. ,			damentals	2
	I Education20		ı dı	damonalo	31
(In addi	tion to the courses listed above)				31
Total C	redita Deguired	Progra	n Electives.		12
iotai Ci	redits Required64		om the cour		
		Manuf		ology	2
The Aut	tomated Manufacturing Systems degree				
requires	s a minimum of 65 credits in program requirements,	Manuf		aulics and Pneumatics	
	n electives and general education in the courses	Manuf	1171 Introd	duction to Robotic Technology	3
listed be	•	Manuf	1190 Introd	duction to Programmable Logic	
listed be	5lOW.		Cor	ntrollers	3
		Manuf		netic Dimensioning and	
PROG	RAM REQUIREMENTS	Mariar			0
Code 39	941			erancing	
Manuf	1101 Industrial Design/CAD	Manuf		puter Numerical Control (CNC)	
	1101 Industrial Design/CAD3	Manuf	2280 Indus	strial Safety	2
Manuf	1104 Technical Mechanics2	Manuf	2281 Cost	Analysis	2
Manuf	1110 Metrology3	Weld		ing I	
Manuf	1121 Physical Metallurgy3			-	
Manuf	1141 Hydraulics and Pneumatics3	Genera	Education		20
Manuf	1151 Machine Shop I3	(In addi	ion to the co	urses listed above)	
		`		,	
Manuf	1171 Introduction to Robotic Technology3	Total C	edits Requi	red	63
Manuf	1180 Quality Control3				
Manuf	1190 Introduction to Programmable Logic	The Ma	nufacturing	Engineering Technology degree	
	Controllers3			of 64 credits in program requireme	
Manuf	2202 Solid Modeling and Design3			on from the courses below.	110
		and gei	erai educalio	on from the courses below.	
Manuf	2251 Computer Numerical Control (CNC)3				
Manuf	2253 Computer-Aided Manufacturing (CAM)3	PROG	RAM REQU	JIREMENTS	
Manuf	2280 Industrial Safety2	Code 3	43		
Elect	1100 Electricity and Electronics	Manuf	1101 Indus	strial Design/CAD	0
	Fundamentals2	Manuf		strial Design/CAD	
	39	Manuf		ical Metallurgy	
	39	Manuf	1141 Hydra	aulics and Pneumatics	3
Prograi	m Electives6	Manuf	1151 Mach	ine Shop I	3
_	rom the courses below.	Manuf		nical Static and Strength of	
Manuf	1153 Advanced Machine Processes3			erial	1
		Manuel			
Manuf	1160 Technical Static and Strength of Material4	Manuf		ty Control	
Manuf	2201 Geometic Dimensioning and Tolerancing3	Manuf		Modeling and Design	
Manuf	2202 Solid Modeling and Design3	Manuf	2203 Manu	ıfacturing Processes and Design	3
Manuf	2203 Manufacturing Processes and Design3	Manuf	2251 Com	outer Numerical Control (CNC)	3
Manuf	2206 Mechanical Computer-Aided	Manuf		outer-Aided Manufacturing (CAM)	
ivialiai					
	Drafting/Design3	Manuf		Analysis	2
Manuf	2207 Tool Design3	Elect	1100 Elect	ricity and Electronics	
Manuf	2271 Robotic Application3		Fun	damentals	2
Manuf	2280 Industrial Safety2	Math	1431 Preca	alculus I	5
_	•	Math		alculus II: Trigonometry	
	I Education20	Math		stics	
(In addi	tion to the courses listed above)				
Total C	redite Deguired	Physi	1201 Gene	ral Physics I	
iotai Ci	redits Required65				52
		Conorc	Education		10
The Dra	afting/Design degree requires a minimum of 63				12
credits i	n program requirements, program electives and	(in addi	ion to the co	urses listed above)	
	education from the courses listed below.	Total C	edits Requi	red	64
gonorai	cadcation from the coarese ficted below.	10101	ouno moquii		
		0555			
	RAM REQUIREMENTS	CERII	FICATES		
Code 39	942	The Ma	nufacturing	Technology certificate requires 3	4
				equirements and program electives	
Manuf	1101 Industrial Design/CAD3				
Manuf	1104 Technical Mechanics2	from the	courses list	ed below. Code 4940	
Manuf	1121 Physical Metallurgy3				
Manuf	1151 Machine Shop I3	PROG	RAM REQU	JIREMENTS	
Manuf	1180 Quality Control3	Manuf	1101 Indus	strial Design/CAD	ာ
Manuf	2202 Solid Modeling and Design3				
iviaiiui	LEGE GOILD MODELLING ALLO DESIGN	Manuf	TTU4 TECNI	nical Mechanics	2

Manuf		Metrology	
Manuf	1121	Physical Metallurgy	3
Manuf		Hydraulics and Pneumatics	
Manuf		Machine Shop I	
Manuf		Advanced Machine Processes	
Manuf		Quality Control	3
Elect	1100	Electricity and Electronics	
		Fundamentals	
Weld		Welding I	3
N 4 - 41-	OR	To alonia al Martha con atica d	_
Math	1115	Technical Mathematics I	3 28
_			
		tives	6
Manuf		courses below.	2
Manuf		Introduction to Robotic Technology Geometic Dimensioning and	3
Mariui	2201	Tolerancing	2
Manuf	2251	Computer Numerical Control (CNC)	
Manuf		Computer-Aided Manufacturing (CAM)	
Weld		Shielded Metal Arc (SMAW)	
Weld		Gas Metal Arc (MIG)	
Weld		Gas Tungsten Arc (TIG)	
vvoia		ado rangotori / tro (rra)	0
The Auto	omate	d Manufacturing Systems certificate	
requires	35 cre	edits in the courses listed below.	
Code 49			
Manuf	1101	Industrial Design/CAD	3
Manuf		Technical Mechanics	
Manuf		Hydraulics and Pneumatics	
Manuf		Machine Shop I	
Manuf		Introduction to Robotic Technology	
Manuf		Quality Control	3
Manuf	1190	Introduction to Programmable Logic	_
	0000	Controllers	
Manuf		Production Technology	
Manuf		Computer Numerical Control (CNC)	
Manuf		Computer-aided Manufacturing (CAM)	
Manuf Math		Industrial Safety Technical Mathematics I	
Man	1115	recrinical Mathematics I	o
The Dra f	ftina/E	Design certificate requires 37 credits in the	he
	_	below. Code 4942	
Manuf	1101	Industrial Design/CAD	3
Manuf	1104	Technical Mechanics	2
Manuf	1141	Hydraulics and Pneumatics	3
Manuf	1151	Machine Shop I	3
Manuf	1180	Quality Control	
Manuf		Geometic Dimensioning and	
		Tolerancing	
Manuf		Solid Modeling and Design	
Manuf		Manufacturing Processes and Design	3
Manuf	2206	Mechanical Computer-Aided	
		Drafting/Design	
Manuf		Tool Design	
Manuf		Mechanical Design Portfolio	3
Elect	1100	Electricity and Electronics	
		Fundamentals	
Math	1115	Technical Mathematics I	3

The **Computer-Aided Design certificate** requires 24 credits in program requirements and program electives from the courses listed below. Code 4944

PROG	RAMI	REQUIREMENTS	
Manuf	1101	Industrial Design/CAD	3
Manuf		Solid Modeling and Design	
Manuf		Manufacturing Processes and Design	
Manuf		Mechanical Computer-Aided	
Mariai	2200	Drafting/Design	9
Manuf	2207	Tool Design	
Manuf	2208	Mechanical Design Portfolio	3
			18
Пиомиом	- Floo	tives	
		rom the courses below.	0
Manuf		Metrology	
		Physical Metallurgy	
Manuf			
Manuf		Hydraulics and Pneumatics	٠
Manuf	2201	Geometic Dimensioning and	,
Manue	0000	Tolerancing	ز
Manuf		Industrial Safety	
Manuf		Cost Analysis	2
Elect	1100	Electricity and Electronics	
		Fundamentals	2
Plast	1101	Introduction to Plastics Industry	ن
The Too	l and l	Die Making certificate requires 31 cred	lits
		es listed below. Code 4984	110
Manuf		Engineering Materials of Industry	9
Manuf	2200	Machine Tool Technology	
Manuf	2261	Basic Die Making I	
Manuf		Basic Die Making II	
Manuf		Advanced Die Making and	
Mariai	2212	Engineering I	_
Manuf	227/	Advanced Die Making and	
Manu	2217	Engineering II	,
Math	1115	Technical Mathematics I	
Math		Technical Mathematics II	
IVIALIT	1110	recrimical Maniemancs II	
The Mo l	ld Mak	king certificate requires 31 credits from	the
		below. Code 4986	
Manuf		Engineering Materials of Industry	3
Manuf	2200	Machine Tool Technology	4
Manuf		Mold Making I	
Manuf		Mold Making II	
Manuf	2276	Advanced Mold Making and	
	5	Engineering I	4
Manuf	2277	Advanced Mold Making and	
		Engineering II	4
Math	1115	Technical Mathematics I	?
Math		Technical Mathematics II	

Marketing

AAS Degree, Two Certificates

The Marketing program provides the academic and practical background for a successful career in this dynamic field. Graduates have many employment opportunities including inside and outside sales, customer services, consumer marketing, business-to-business marketing, e-commerce and promotions. The **Marketing degree** program consists of a total of 64 to 68 credits in program requirements, program electives and general education. The following list contains the required courses, some of which may be used to meet general education requirements.

	RAM REQUIREMENTS	Busin	1100 Introduction to Business3
Code 32			9
Marke	1170 E-Marketing3		m Electives3
Marke	2210 Principles of Marketing3		one of the following courses.
Marke	2220 Sales	Marke	2220 Sales
Marke	2230 Retailing3	Marke	2240 Advertising3
Marke	2240 Advertising3	Cis	1150 Introduction to Computer Information
Accou	1140 Financial Accounting4		Systems3
Busin	1100 Introduction to Business3		
Buslw	2211 Business Law I		
Cis	1221 Introduction to Spreadsheets3	Motio	on Picture/Television
Cis	1150 Introduction to Computer	Three A	AAS Degrees, Certificate
	Information Systems3		otion Picture/Television program specializes in
Econo	2201 Macroeconomics and the Global Economy .3		ing students for employment and/or transfer in the
	OR		of film, video, television, animation and audio
─ Psych	1100 General Psychology3		stion. Graduates find jobs in industry, education and
Manag	2210 Principles of Management3		ment, although a knowledge of motion picture or
Philo	1114 Business Ethics3		
	40		on production is also helpful for those seeking
Program	m Electives12		s in advertising, public relations and other related
	credits from the courses below.		A hands-on approach to learning is emphasized.
Busin	1170 Electronic Business/Commerce3	Severa	I courses are transfer oriented.
Busin	2255 International Business	۸۸۵۶	DECREES
Marke	1100 Consumer Marketing3		DEGREES
		The Te l	levision Production degree program requires a
Marke	1171 Database Marketing3	minimu	um of 64 credits, in general education, program
Marke	1175 Customer Relationship Management3	require	ments and program electives. The following list
Marke	2250 Business to Business3		ns the required courses.
Marke	2260 International Marketing3		'
	al Education	PROG Code 3	RAM REQUIREMENTS 8695
•	redits Required64 to 68	Mptv	1011 Introduction to Motion Pictures and
iotai Ci	realis nequirea04 to 60	Ινίριν	Television3
CERTI	FICATES	Mptv	1020 Editing for Motion Pictures and
The Ma	rketing certificate requires a minimum of 31		Television
	n the courses listed below. Code 4204	Mptv	1022 Audio for Motion Pictures and Television3
		Mptv	1220 Introduction to Television Production3
PROG	RAM REQUIREMENTS	Mptv	1311 Two-Dimensional Animation I
Marke	1170 E-Marketing3	Mptv	2031 Pre-Production for Motion Pictures
Marke	2210 Principles of Marketing3		and Television3
Accou	1140 Financial Accounting4	Mptv	2231 Photojournalism for Television3
Busin	1100 Introduction to Business	Mptv	2233 Documentary Production3
Cis	1150 Introduction to Computer Information	Mptv	2240 Advanced Television Production3
Ols		Journ	1120 Introduction to Broadcasting3
Manaa	Systems		30
Manag	2210 Principles of Management3	Progra	ım Electives15
	19		at least 15 credits from the courses below.
Prograi	m Electives12	Mptv	1111 Film/Video Production Aesthetics2
Select 1	2 credits from the courses below.	Mptv	1113 Film/Video Production History2
Marke	1100 Consumer Marketing3	•	1120 Cinematography3
Marke	1171 Database Marketing3	Mptv	• . •
Marke	1175 Customer Relationship Management3	Mptv	1122 Screenwriting for Short Film Production3
Marke	2220 Sales3	Mptv	1320 Two-Dimensional Animation II
Marke	2230 Retailing3	Mptv	1822 Selected Topics
Marke	2240 Advertising3	Mptv	2131 Film/Video Production
Marke	2250 Business to Business3	Mptv	2133 Directing for Film/Video3
Marke	2260 International Marketing3	Mptv	2140 Advanced Film/Video Production3
Busin	1170 Electronic Business/Commerce3	Mptv	2331 Three-Dimensional Animation I3
Dualii	TITO LIECTIONIC DUSTRESS/COMMINERCE	Mptv	2340 Three-Dimensional Animation II3
The Co	noumer Marketing cortificate requires 10 are dia	Mptv	2822 Advanced Selected Topics3
	nsumer Marketing certificate requires 12 credits	Gener	al Education19 to 22
in the co	ourses listed below. Code 4216		lition to the courses listed above)
PPOC	RAM REQUIREMENTS	-	•
		fotal C	Credits Required64 to 67
Marke	1100 Consumer Marketing3		
Marke	2210 Principles of Marketing3		

The Film/Video Production degree program requires a minimum of 64 credits in general education, program requirements and program electives. The following list contains the required courses.

PROGRAM REQUIREMENTS Code 3696

Mptv	1011	Introduction to Motion Pictures and Television3	
Mptv	1020	Editing for Motion Pictures and Television .3	
Mptv		Audio for Motion Pictures and Television3	
Mptv	-	Film/Video Production Aesthetics2	
Mptv		Film/Video Production History2	
Mptv		Cinematography3	
Mptv		Screenwriting for Short Film Production3	
Mptv	2031	•	
····p···		and Television3	
Mptv	2131		
Mptv	_	Directing for Film/Video3	
Mptv		Advanced Film/Video Production3	
•		31	
Progran	n Elec	tives14	
Select at	least	14 credits from the courses below.	
Mptv	1220	Introduction to Television Production3	
Mptv	_	Two-Dimensional Animation I3	
Mptv	1320	Two-Dimensional Animation II3	
Mptv		Selected Topics3	
Mptv		Photojournalism for Television3	
Mptv		Documentary Production3	
Mptv	_	Advanced Television Production3	
Mptv		Three-Dimensional Animation I3	
Mptv		Three-Dimensional Animation II3	
Mptv	2822	Advanced Selected Topics3	
General Education			
Total Cr	Total Credits Required64 to 67		

The **Animation degree** program specializes in preparing students for employment and/or transfer in the field of animation. Students will explore and become proficient in the basics of animation with projects that include character animation and computer generated imagery. This program will teach students techniques in story development, character design, animation, motion control, lighting, and sound for animation. The Animation degree program requires a minimum of 64 credits in general education, program requirements and program electives. The following list contains the required courses.

PROGRAM REQUIREMENTS

Code 3698

Mptv	1020	Editing for Motion Pictures and Television	3
Mptv	1311	Introduction to Animation	3
Mptv	1313	History of Animation	3
Mptv	1324	Motion Graphics and Special Effects I	3
Mptv	2331	Three-Dimensional Animation	3
Mptv	2342	Animation Portfolio	3
Grdsn	2210	Cartooning	3
Grdsn	2211	Storyboarding/Sequential Art	3
Art	1101	Drawing I	3
Art	1102	Drawing II	3
Art	1151	2-D Design	3
Art	2201	Life Drawing I	3

Art	2266 Computer Art I3 39
Select from approved Mptv	n Electives
Select fro	s
	Education
Total Cr	edits Required64
CERTIF	FICATE

The Motion Picture/Television certificate requires 44 credits in program requirements and program electives. Code 4695

PROGRAM REQUIREMENTS

Mptv	1011	Introduction to Motion Pictures and Television3
Mptv	1020	Editing for Motion Pictures and Television3
Mptv	1022	Audio for Motion Pictures and Television3
Mptv	1111	Film/Video Production Aesthetics2
Mptv	1120	Cinematography3
Mptv	1122	Screenwriting for Short Film Production3
Mptv	1220	Introduction to Television Production3
Mptv	2031	Pre-Production for Motion Pictures
		and Television3
		Directing for Film/Video3
	AND	
└ Mptv	2140 OR	Advanced Film/Video Production3
	2231	Photojournalism for Television3
	AND	•
└ Mptv	2240	Advanced Television Production3 $\overline{29}$
Progran	n Elec	tives15

Mptv 1113 Film/Video Production History.....2 Mptv Mptv 1822 Selected Topics......3 Mptv Mptv 2233 Documentary Production......3 Mptv 2331 Three-Dimensional Animation I3 Mptv 2340 Three-Dimensional Animation II3 2822 Advanced Selected Topics3 VtaM

Select at least 15 credits from the courses below.

Nursing (ADN)

AAS Degree

The Associate Degree Nursing (ADN) program prepares its graduates to deliver nursing care in various health care environments. The graduates are eligible to take the state licensure examination for registered nurses. This program requires 69 credits in general education and program requirements. The following list contains the required courses, some of which may be used to meet general education requirements.

	PROGF Code 31		REQUIREMENTS	
	Nursi Nursi		Introduction to Physical Assessment Medical-Surgical I	
	Nursi		Medical-Surgical II	
	Nursi		Childbearing Family	
	Nursi		Neuropsychiatric Nursing	
	Nursi		Medical-Surgical III	
	Nursi		Contemporary Issues in Nursing	
	Nursi		Medical-Surgical IV	
	Nursi	2202	Clinical Decision Making	1
	Anat&	1551	Human Anatomy and Physiology I	4
		AND		
	Anat&	1552 OR	Human Anatomy and Physiology II	4
	Anat&	1571	Anatomy and Physiology with Cadaver I	4
		AND	Oddavor I	
	Anat&		Anatomy and Physiology with	
	7		Cadaver II	4
	Engli	1101	English Composition I	
	Foods		Basic Nutrition	
	Micro	1420	Microbiology	4
	Psych		Developmental Psychology:	
	•		The Life Span	3
_	Speec	1100	Fundamentals of Speech	
			Communication	3
		OR		
L	Speec	1120	Small-Group Communication	3
				63
	General	Educ	ation	6
			the courses listed above)	
	•		•	-00
	iotai Cre	eaits f	Required	69

Practical Nursing (PN)

Certificate

The Practical Nursing (PN) program prepares students to function under the direction of a licensed professional in a variety of health care settings. The curriculum integrates classroom, campus laboratory and clinical instruction to teach concepts and skills that the PN uses to contribute to the nursing care of patients. Completion of the program provides the foundation for continued education and career mobility in nursing. On successful completion of the PN program, the student is awarded a certificate and becomes eligible to take the National Council Licensure Examination-Practical Nurse (NCLEX-PN).

The **Practical Nursing (PN) certificate** requires 50 to 54 credits in the program requirements listed below. Code 4160

Nursp	1101	Practical Nursing Concepts and Skills I10
Nursp	1102	Pharmacology for the Practical Nurse4
Nursp	1103	Practical Nursing Concepts
		and Skills II5
Nursp	1104	Practical Nursing Concepts
		and Skills III7
Nursp	1105	Practical Nurse Role Transition5

Nursp – Anat&	1106 Issues and Trends in Practical Nursing3 1500 Survey of Human Anatomy and Physiology4
	OR
Anat&	1551 Human Anatomy and Physiology I4 AND
Anat&	1552 Human Anatomy and Physiology II4 OR
Anat&	1571 Anatomy and Physiology with Cadaver I4 AND
- Anat&	1572 Anatomy and Physiology with Cadaver II4
Hlths	1105 Nurse Assistant6
Psych	1100 General Psychology3
Psych	2237 Developmental Psychology:
	The Life Span3

Office Technology Information

Three AAS Degrees, Five Certificates

The Office Technology Information program prepares students by developing and enhancing their skills using current technologies in today's office. Courses are designed for students entering the Office Technology Information curriculum for the first time and for students preparing for a return to the work force.

AAS DEGREES

The **Administrative Assistant degree** program requires 64 to 68 credits in program requirements, electives and general education. The following list contains the required courses.

PROGRAM REQUIREMENTS Code 3276

Ofti	1110	Document Formatting4			
Ofti		Speed Development Keyboarding2			
Ofti		Business Correspondence3			
Ofti		MS Office for Professional Staff3			
Ofti		E-Mail and Electronic Communication2			
Ofti	1210	Word Processing I3			
Ofti		Word Processing II2			
Ofti		MS Word Desktop Publishing2			
Ofti	1250	Electronic Presentations for Business			
		Professionals2			
Ofti	2305	Word Processing Transcription3			
Ofti	2600	Professional Development3			
Ofti	2605	Professional Office Procedures4			
		33			
Elective	s	13			
	_	its from any 1000- or 2000-level courses.			
General	General Education				
(In addition to the courses listed above)					
Total Cr	Total Credits Required64 to 68				
		10441104			

The **Executive Assistant degree** program consists of a total of 64 credits in general education and program requirements. The following list contains the required courses.

PROGRAM REQUIREMENTS Code 3291

Ofti Ofti Ofti Ofti Ofti Ofti Ofti Ofti	1120 1130 1200 1203 1210 1215 1218 1250 2305 2600 2605 1140 1100 2211	Document Formatting	2 3 2 2 2 2 3 3 4 4	
Manag	2210	Principles of Management	3	
General Education				
Total Credits Required64				

The Administrative Assistant and Meeting/Event **Planning degree** prepares the student for an administrative support position. It consists of 65 to 67 credits in program requirements, program electives and general education.

PROGRAM REQUIREMENTS Code 3294

000e 32	-3 4					
Ofti		Document Formatting				
Ofti		Speed Development Keyboarding2				
Ofti	1130	Business Correspondence	3			
Ofti	1200	MS Office for Professional Staff	3			
Ofti	1203	E-Mail and Electronic Communication2	2			
Ofti		Word Processing I				
Ofti	1215	Word Processing II2	2			
Ofti	1218	MS Word Desktop Publishing2	2			
Ofti	1250	Electronic Presentations for Business				
		Professionals2	2			
Ofti	2305	Word Processing Transcription	3			
Ofti	2600	Professional Development	3			
Ofti	2605	Professional Office Procedures4	ļ			
Trav	2201	Fundamentals of Meeting and Event				
		Planning3	3			
Trav	2203	Incentive Travel and Planning	3			
Trav	2205	Advanced Meeting and Event Planning3	3			
Trav	2207	Marketing for the Travel, Tourism and				
		Meetings Industries	3			
		45	5			
Program	n Elec	tives1				
One credit hour in Travel and Tourism program required.						
Genera	General Education					
Student	Student must complete 18 hours in general education					
courses		-				

Total Credits Required64

CERTIFICATES

Ofti 2305 Word Processing Transcription	O	10, (1				
Ofti 1110 Document Formatting 4 Ofti 1120 Speed Development Keyboarding 2 Ofti 1130 Business Correspondence 3 Ofti 1200 MS Office for Professional Staff 3 Ofti 1203 E-Mail and Electronic Communication 2 Ofti 1210 Word Processing I 3 Ofti 1215 Word Processing II 2 Ofti 1218 MS Word Desktop Publishing 2 Ofti 1250 Electronic Presentations for Business 2 Professionals 2 2 Ofti 2305 Word Processing Transcription 3 Ofti 2600 Professional Development 3 Ofti 2605 Professional Office Procedures 4 Accou 1140 Financial Accounting 4 Accou 1140 Financial Accounting 4 Busin 1100 Introduction to Business 3 Busin 120 Princ						
Ofti 1120 Speed Development Keyboarding						
Ofti 1200 MS Office for Professional Staff	Ofti					
Ofti 1200 MS Office for Professional Staff	Ofti					
Ofti 1203 E-Mail and Electronic Communication	Ofti	1130	Business Correspondence3			
Ofti 1210 Word Processing I	Ofti					
Ofti 1215 Word Processing II	Ofti	1203	E-Mail and Electronic Communication2			
Ofti 1218 MS Word Desktop Publishing	Ofti	1210	Word Processing I3			
Ofti 1250 Electronic Presentations for Business Professionals	Ofti	1215	Word Processing II2			
Professionals	Ofti					
Ofti 2305 Word Processing Transcription	Ofti	1250	Electronic Presentations for Business			
Ofti 2600 Professional Development			Professionals2			
Ofti 2605 Professional Office Procedures	Ofti	2305	Word Processing Transcription3			
Accou 1140 Financial Accounting	Ofti					
Busin 1100 Introduction to Business	Ofti	2605	Professional Office Procedures4			
Buslw 2211 Business Law I	Accou					
Manag 2210 Principles of Management	Busin	1100	Introduction to Business3			
The Administrative Assistant certificate requires 33 credits in the courses listed below. Code 4276 Ofti 1110 Document Formatting	Buslw					
credits in the courses listed below. Code 4276 Ofti 1110 Document Formatting	Manag	2210	Principles of Management3			
credits in the courses listed below. Code 4276 Ofti 1110 Document Formatting	The Adr	ninieti	rativo Assistant cortificato requires 22			
Ofti 1110 Document Formatting						
Ofti 1120 Speed Development Keyboarding						
Ofti 1130 Business Correspondence						
Ofti 1200 MS Office for Professional Staff 3 Ofti 1203 E-Mail and Electronic Communication 2 Ofti 1210 Word Processing I 3 Ofti 1215 Word Processing II 2 Ofti 1218 MS Word Desktop Publishing 2 Ofti 1250 Electronic Presentations for Business Professionals 2 Ofti 2305 Word Processing Transcription 3 Ofti 2600 Professional Development 3						
Ofti 1203 E-Mail and Electronic Communication						
Ofti 1210 Word Processing I 3 Ofti 1215 Word Processing II 2 Ofti 1218 MS Word Desktop Publishing 2 Ofti 1250 Electronic Presentations for Business Professionals 2 Ofti 2305 Word Processing Transcription 3 Ofti 2600 Professional Development 3						
Ofti 1215 Word Processing II						
Ofti 1218 MS Word Desktop Publishing						
Ofti 1250 Electronic Presentations for Business Professionals						
Professionals						
Ofti 2600 Professional Development3	Oiti	1250	Professionals2			
Ofti 2600 Professional Development3	Ofti	2305				
	Ofti					
	Ofti					

The Office Technology Information Essentials certificate requires 22 credits in the courses listed below. Code 4277

┌ Ofti	1100	Introduction to Computer Keyboarding.	2
	OR		
└ Ofti	1120	Speed Development Keyboarding	2
Ofti	1110	Document Formatting	4
Ofti	1130	Business Correspondence	3
Ofti	1200	MS Office for Professional Staff	3
Ofti	1203	E-Mail and Electronic Communication	2
Ofti	1210	Word Processing I	3
Ofti	1215	Word Processing II	2
Ofti	2600	Professional Development	3
The Wo	rd Spe	ecialist certificate requires 7 credits in the	ne

courses listed below. Code 4290 1210 Word Processing I......3 Ofti 1215 Word Processing II.....2 Ofti 1218 MS Word Desktop Publishing.....2

The Medical Office certificate requires 21 credits in the courses listed below. It prepares the student for an entry level administrative support position into the medical office environment. Code 4291

Ofti	1110	Document Formatting	4
Ofti		Business Correspondence	
Ofti	1200	MS Office for Professional Staff	3
Ofti	2600	Professional Development	3

Hlths	1110	Biomedical Terminology	4
Hlths	1130	Medical Assistant Administrative	
		Procedures	2
Hlths	2211	Legal and Ethical Aspects of	
		Health Care	2

Paralegal Studies

AAS Degree, Certificate

The Paralegal program prepares its graduates to perform substantive legal work under the supervision of an attorney. Although paralegals cannot provide legal services directly to the public, except as permitted by law, paralegals assist attorneys in a variety of legal environments by performing tasks such as drafting legal documents, performing legal research, maintaining corporate records and minutes books, interviewing witnesses and clients, and assisting in trial preparation. This degree program consists of a total of 70 credits in program requirements and electives.

AAS DEGREE PROGRAM REQUIREMENTS Code 3270

Plgl	1100	Introduction to Paralegal Studies	3
Plgl		Drafting Legal Documents	
Plgl	1200	Litigation	3
Plgl	1250	Law Office Organizations	3
Plgl	1500	Legal Research and Writing	3
Plgl	2100	Advanced Legal Research and Writing.	3
Plgl	2550	Paralegal Practicum	3
Buslw		Business Law I	
Biolo	1110	Environmental Biology	4
	OR		
Chem	1105	Contemporary Chemistry	4
	OR		
- Earth	1101	Physical Geology of Earth's Interior	4
Cis	1150	Introduction to Computer Information	
		Systems	3
Engli	1101	English Composition I	
-Math	1100	Business Mathematics	3
	OR		
-Math	1218	General Education Mathematics	3
Ofti		MS Office for Professional Staff	
Ofti		Professional Development	
Philo		Ethics	
Pols		American Politics	
-Psych	1100	General Psychology	3
	OR		
-Socia	1100	Introduction to Social Science	3
Speec	1100	Fundamentals of Speech	
		Communication	
			55
Program	n Elec	tives	15
		urs from the following list:	
Plgl		Criminal Law and Procedure	3
Pigi		Corporations and Other Business	
3		Organizations	3
Plal	2300	Estate Planning and Probate Law	
Pigi		Family Law	
Plgl		Intellectual Property Law	
Plgl		Real Property Law	
Plgl		Tort and Insurance Law	
Crimj	1151	Constitutional Law	

Crimj	1153 Rules of Evidence	3
Total Cr	redits Required	70

CERTIFICATE

The **Paralegal Studies certificate** requires a minimum of 27 credits in the courses listed below. Code 4270

PROGRAM REQUIREMENTS

Plgl	1100	Introduction to Paralegal Studies	3
Plgl	1200	Litigation	3
Plgl	1500	Legal Research and Writing	3
Plgl		Law Office Organizations	
Plgl		Advanced Legal Research and Writing.	
Plal		Paralegal Practicum	
Buslw		Business Law I	
			21
Drogran	n Flac	tives	6
_		rses from the following list.	0
			2
Plgl		Criminal Law and Procedure	ა
Plgl	2250	Corporations and Other Business	
		Organizations	3
Plgl	2300	Estate Planning and Probate Law	
Plgl		Family Law	
Plgl		Intellectual Property Law	
Plgl		Real Property Law	
Plgl		Tort and Insurance Law	
_			

Photography

AAS Degree, Certificate

The Photography program is designed to provide the student with a broad working knowledge and the fundamental skills to create and produce high quality black-and-white, color and digital images. The degree program consists of a minimum of 64 credits in program requirements, program electives and general education. The following list contains the required courses.

AAS DEGREE PROGRAM REQUIREMENTS Code 3564

Photo		Fundamentals of Photography	
Photo		Foundations of Digital Photography	
Photo		Foundations of Film Photography	
Photo		History of Photography	
Photo	1200	Intermediate Photography	3
Photo	1201	Tools and Techniques for Digital	
		Photography	3
	OR		
Photo	1202	Tools and Techniques for Film	
		Photography	3
Photo	1300	Studio Photography I	3
Photo	1400	Color Photography I	3
Photo	2100	Extended Photographic Project	3
Photo	2400	Color Photography II	3
Photo	2700	Professional Photographic Practices	3
Photo	2750	Portfolio Presentation	3
			36
Progran	n Elec	tives	10
Select fr	om the	e courses below.	
Photo	1170	Underwater Photography	3
Photo		Tools and Techniques for Digital	
		Photography	3

Photo	1202	Tools and Techniques for Film	Co-op	2861	Cooperative Education/Internship
		Photography3			(Occupational)
Photo		Advanced Digital Imaging3	Co-op	2862	Cooperative Education/Internship
Photo		Alternative Photographic Processes3			(Occupational)
Photo		Nature Photography3			
Photo		Photojournalism3			
Photo	1820	Selected Topics I1	Dhyei	cal Ti	nerapist Assistant
Photo	1821	Selected Topics II2			ierapist Assistant
Photo	1840	Independent Study —	AAS De	egree	
		Individualized1 to 4			Therapist Assistant program prepares its
Photo	2200	Portrait Photography3	gradua	tes to p	provide skilled direct patient care under the
Photo	2300	Studio Photography II3	directio	n and s	supervision of a licensed physical therapist.
Photo	2350	Studio Photography III3			nent include relieving pain, improving
Photo	2375	Studio Digital Capture3			nobility, and helping patients to attain
Co-op	2861	Cooperative Education/Internship			ction. Physical therapist assistants are
		(Occupational)1	employ	red in a	variety of settings, including hospitals,
Co-op	2862	Cooperative Education/Internship	rehabili	tation c	centers, long-term care facilities, sports
		(Occupational)2	medicir	ne clinic	cs and home health care agencies.
			Gradua	ates mu	st take the state licensure examination for
		ation18	physica	al thera	pist assistants.
(In addit	ion to 1	the courses listed above)	This	degree	e program consists of 69.5 to 71.5 credits in
Total Cr	edits F	Required64	genera	l educa	tion and program requirements. The
			Physica	al Thera	apist Assistant program is accredited by the
CERTII	FICAT	F	Commi	ssion o	n Accreditation in Physical Therapy
			Educat	ion (CA	NPTE).
		phy Technology certificate requires 46			
credits i	n tne c	ourses listed below. Code 4564	AAS E	DEGRE	E
PPOGI		REQUIREMENTS	PROG	iRAM	REQUIREMENTS
			Code 3	186	
Photo		Fundamentals of Photography3	Phyta	1100	Introduction to Physical Therapy
Photo		Foundations of Digital Photography3	Phyta		Pathophysiology
Photo		Foundations of Film Photography3	Phyta		Basic Health Care Skills and Principles
Photo		History of Photography3	,		of Soft Tissue Techniques
Photo		Intermediate Photography3	Phyta	1110	Documentation1.
-Photo	1201	Tools and Techniques for Digital	Phyta		Kinesiology I
		Photography3	Phyta		Kinesiology II
	OR		Phyta		Total Patient Care
-Photo	1202	Tools and Techniques for Film	Phyta		Therapeutic Modalities
		Photography3	Phyta		Therapeutic Exercise
Photo	1300	Studio Photography I3	Phyta		Therapeutic Assessment and Basic
Photo		Color Photography I3	y.ca		Intervention
Photo		Extended Photographic Project3	Phyta	1221	Clinical Practicum I
Photo		Color Photography II3	Phyta		Neuromuscular and
Photo		Professional Photographic Practices3	. Hyta		Cardiopulmonary Rehabilitation
Photo	2750	Portfolio Presentation3	Phyta	2204	Special Patient Populations
		36	Phyta		Advanced Orthopedic Rehabilitation
Program	n Elec	tives10	Phyta		Professional Issues
		e following courses.	Phyta		Clinical Practicum II1.
Photo		Underwater Photography3	Phyta		Clinical Practicum III2.
Photo		Tools and Techniques for Digital	Phyta		Clinical Practicum IV
	0.	Photography3	⊢ Anat&		Human Anatomy and Physiology I
Photo	1202	Tools and Techniques for Film	Anata	AND	Truman Anatomy and Thysiology T
1 11010	1202	Photography3	_ Anat&		Human Anatomy and Physiology II
Photo	1250	Advanced Digital Imaging3	Anata	OR	Truman Anatomy and Thysiology In
Photo		Alternative Photographic Processes3			Anatomy and Physiology with
Photo		Nature Photography3	Aliala	13/1	Anatomy and Physiology with Cadaver I
Photo		Photojournalism		AND	Gauavei i
Photo		Selected Topics I	_ Anat&		Anatomy and Physiology with
Photo		Selected Topics II	- Allaid	13/2	Cadaver II
Photo		Independent Study —	Hlths	1110	Biomedical Terminology
1 11010	10-10	Individualized1 to 4	1 111115	1110	54.
Photo	2200	Portrait Photography3	_		
Photo		Studio Photography II3			cation15 to 1
Photo		Studio Photography III	(In add	ition to	courses listed above)
Photo		Studio Digital Capture	Total C	redits	Required69.5 to 71.5

Plastics Technology

AAS Degree

The Plastics Technology program provides a complete technical understanding of the plastics industry. Graduates will be employable as technicians in plastic molding, extrusion, estimating, laboratory field service and finishing. This degree program consists of a total of 66 to 70 credits in program requirements, general education and program electives. The following list contains the require courses.

AAS DEGREE PROGRAM REQUIREMENTS Code 3980

Plast	1101	Introduction to Plastics Industry	3
Plast	1400	Molding	3
Plast	1410	Extrusion	3
Plast	1420	Plastics Finishing	3
Plast	1700	Fundamentals of Plastics and Paper Products	
Plast	2700	Plastics Engineering	
Chemi		General Chemistry	
		, , , , , , , , , , , , , , , , , , , ,	23
		tives	
		ts from the courses below. Consult w	ith a
		er for selection of courses.	_
Plast		Production and Quality Control	3
Plast	2300	Testing of Polymers and Plastic	
		Products	3
Cadd	1111	Basic Computer-Aided Drafting — AutoCad	,
Chemi	1010	Survey of Organic Chemistry	
Elmec	1101		٠٠
Elmec	_	Motor Fundamentals	
Elmec		Industrial Electricity	
Elmec		National Electrical Code	
Elmec		Maintenance Management Systems	
Elmec		Preventive and Predictive Maintenar	
Elmec		Drive Components	
Elmec	2/10	Programmable Controller II (PLC II)	2
Elmec	2510	Process and Automation Controls	٠
Elmec		Motion Control: Servo and Stepper	
LIIIIec	2000	Motor Application and Control	
Elmec	2610	Machine Vision and Artificial	
Limico	2010	Intelligence	2
Manuf	1104	Technical Mechanics	
Manuf	1141		3
Manuf	1151	=	
Manuf	1171	Introduction to Robotic Technology	3
Manuf		Quality Control	
Manuf	1190	Introduction to Programmable	
		Logic Controllers	3
Manuf	2251	<u> </u>	3
General	Educ	ation	
		the courses listed above)	
•		•	34 to 68

Real Estate

AAS Degree, Certificate

The Real Estate program meets the needs of students entering the real estate business as well as those already employed in the field who wish to continue their professional growth. In addition, the program fulfills the academic requirements for students taking the Illinois Real Estate Salesperson and Broker License examinations. The Real Estate degree program consists of a minimum of 64 credits in program requirements, program electives and general education. The following list contains the required courses.

AAS DEGREE PROGRAM REQUIREMENTS

Cod		

Code 32	.72	
Reale	1110	Real Estate Transactions3
Reale	1120	Advanced Principles 20001
Reale		Contracts and Conveyances1
Reale		Brokerage Administration1
Reale	1126	Financing1
Reale		Property Management1
Accou	1140	Financial Accounting4
Busin	1100	Introduction to Business3
Busin	1161	Entrepreneurship3
Buslw	2211	Business Law I3
Cis	1150	Introduction to Computer Information
		Systems3
Manag	1100	Supervision3
Manag	1161	Small Business Management3
Marke	2210	Principles of Marketing3
Ofti	1130	Business Correspondence3
		36
Program	n Elec	tives10
Select a	minim	um of 10 credit hours from the courses
below.		am of to disalt hours from the scarces
Reale	1152	Foundations of Real Estate Appraisal2
Reale		Selected Topics I3
Busin		Fundamentals of Personal Investing3
Buslw		Business Law II
Econo		Consumer Economics and Personal
		Finance3
Marke	1100	Consumer Marketing3
Marke	1175	Customer Relationship Management3
Marke	2240	Advertising3
Ofti	1200	MS Office for Professional Staff2
Genera	l Educ	ation18 to 22
		the courses listed above)
lotal Cr	edits i	Required 64 to 68
CERTIF	FICAT	E
The Rea	ıl Esta	te Appraisal certificate requires eight
		ourses listed below. Code 4273
Reale		Real Estate Transactions3
Reale		Foundations of Real Estate Appraisal2
Reale		Appraising the Single Family Residence2
Reale		Uniform Standards of Professional
		Appraisal Practice1
		L.L

Respiratory Care

AAS Degree

Respiratory Care health professionals are responsible for life support and related systems as applied to the management of patients with cardiopulmonary disease. The Respiratory Care program prepares eligible students to provide entry-level and advanced level management of respiratory care to patients primarily seen in hospitals, intensive care units, emergency rooms and diagnostic laboratories. Classroom, laboratory and clinical instruction train the student in diagnostic, therapeutic, technologic and administrative arts as applied to the critically ill adult, neonatal and pediatric patient. The degree consists of a total of 77 credits, 55 in Respiratory Care and 22 in general education.

AAS DEGREE PROGRAM REQUIREMENTS Code 3182

Resp	1101	Basic Respiratory Care	3
Resp	1102	Intermediate Respiratory Care	3
Resp	1103	Advanced Respiratory Care	3
Resp	1105	Respiratory Assessment and Procedures	34
Resp	1111	Clinical Practice I	4
Resp	1112	Clinical Practice II	4
Resp	1113	Intensive Respiratory Care Clinical Practice	3
Resp	1120	Applied Cardiopulmonary Anatomy and Physiology	
Resp	1121	Applied Science for Respiratory Care	
Resp		Advanced Life Support, Monitoring	
Doon	0000		_
			ა
nesp	2205		3
Resp	2206		
·		Adult	4
Resp	2207	${\it Advanced\ Intensive\ Respiratory\ Care} \$	
Resp			3
Resp	2280		
			55
		ation	.18
courses			
Total Cr	edits F	Required	.77
Resp Resp Resp Resp Resp General (Select a courses	2202 2205 2206 2207 2250 2280 Educa minim listed a	and Trends	3 4 3 4 55

Speech-Language Pathology Assistant *AAS Degree*

The Speech Language Pathology Assistant (SLPA) program prepares students for employment as support personnel under the supervision of a certified Speech Language Pathologist in acute hospitals, subacute physical rehabilitation units, inpatient and outpatient physical rehabilitation clinics, long-term care settings, and schools. SLPAs are emerging professionals, and registration of SLPAs by the American Speech-Language-Hearing Association (ASHA) began January 2003. Graduates of the SLPA program will be eligible to become registered Speech-Language Pathology Assistants.

This degree program consists of a minimum of 64 credits in program requirements, program electives and

general education. The following list contains the required courses, some of which may be used to meet general education requirements.

AAS DEGREE PROGRAM REQUIREMENTS Code 3132

Slpa	1101	Introduction to Speech Language	1
Slpa	1105	Pathology	
-		Speech Disorders and Intervention	3
Slpa	1106		4
01	4407	Across the Lifespan I	4
Slpa	1107	Speech Disorders and Intervention	_
01		Across the Lifespan II	
Slpa		Language Development	3
Slpa	1110	Language Disorders and Intervention	
		Across the Lifespan	
Slpa		Introduction to Audiology	
Slpa		Clinical Methods and Documentation	
Slpa	2102	Professional Issues and the SLPA	4
Slpa	2104	Augmentative and Alternative	
		Communication	3
Slpa	2112	Clinical Practicum	6
•		-	39
Program	n Elec	tives	7
Select a	minim	um of seven credits from the following	
courses	or oth	er related courses in different disciplines.	
Slpa	1301	Sign Language I	3
Slpa		Selected Topics I	
Slpa		Selected Topics II	
Slpa		Sign Language II	
General	Educ	ation	.18
		the courses listed above)	
Total Cre	edits F	Required	.64

Surgical Technology

AAS Degree, Certificate

The Surgical Technology program teaches students to set up the operating room, prepare surgical instruments and assist in their use, prepare patients for surgery and perform other tasks that ensure a safe surgical environment and contribute to and support the operating team's efficiency. Surgical technologists (STs) are employed in hospital operating rooms, delivery rooms, emergency departments and ambulatory care areas.

This degree program requires a minimum of 67 credits in general education and program requirements. The following list contains the required courses, some of which may be used to meet general education requirements.

AAS DEGREE PROGRAM REQUIREMENTS Code 3192

Surgt	1101	Surgical Technology Concepts I16
Surgt	1102	Surgical Technology Concepts II8
Surgt	1103	Surgical Technology Concepts III8
Surgt	1104	Surgical Technology Concepts IV16
- Anat&	1551 OR	Human Anatomy and Physiology I4
– Anat&	1571	Anatomy and Physiology with
		Cadaver I4

52

General Education15	Trav 1820 Selected Topics
(In addition to the courses listed above)	Trav 2130 Airline Operations and Security
Total Credits Required67	Procedures
OFDITIOATE	Trav 2201 Fundamentals of Meeting and Event Planning
CERTIFICATE	Trav 2203 Incentive Travel and Planning
The Surgical Technology certificate requires 48 credits	Trav 2205 Advanced Meeting and Event Planning
in the courses listed below. Code 4192	Trav 2210 Advanced Global Distribution Systems
PROGRAM REQUIREMENTS	Trav 2236 Cruise Industry Sales Specialization
	Trav 2240 Tour Escorting, Planning and
Surgt 1101 Surgical Technology Concepts I	Operations
Surgt 1102 Surgical Technology Concepts II8 Surgt 1103 Surgical Technology Concepts III8	Trav 2820 Advanced Selected Topics
Surgt 1104 Surgical Technology Concepts II	Co-op 2860 Cooperative Education/Internship (Occupational)1 to
ourge 1104 ourgious recurriology concepts iv	Hotel 1100 Introduction to the Hospitality Industry
	Hotel 2253 Professional Meeting and Event
Travel and Tourism	Management
Two AAS Degrees, Six Certificates	General Education2
The Travel and Tourism program is designed for individuals	The following are required General Education courses.
who plan to enter the travel, tourism or meetings industries	Busin 1100 Introduction to Business
or professionals who desire to update their skills. Career	Cis 1110 Using Computers: An Introduction
opportunities are available in an exciting variety of areas	Earth 1140 Fundamentals of Earth Science
including meeting planning, tourist boards, convention and	Engli 1101 English Composition I
visitors bureaus, hoteliers, airlines, rental car companies,	Math 1100 Business Mathematics
travel agencies, receptive tourism, destination management	Philo 1114 Business Ethics
companies, consolidators, cruise lines, tour operators and	Psych 1150 Adjustment
as home-based/outside sales independent contractors.	Speec 1100 Fundamentals of Speech Communication
The Travel and Tourism Professional degree	
requires a minimum of 64 hours in program requirements, program electives and general education.	Total Credits Required6
	The Meeting and Event Planning degree can benefit all
AAS DEGREES PROGRAM REQUIREMENTS Code 3281 Trav 1121 Introduction to the Travel, Tourism and	The Meeting and Event Planning degree can benefit all levels of meeting and event professionals by focusing on management issues critical to the meeting industry. The Meeting and Event Planning degree requires a minimum of 4 hours in program requirements, program electives and general education.
AAS DEGREES PROGRAM REQUIREMENTS Code 3281 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries	levels of meeting and event professionals by focusing on management issues critical to the meeting industry. The Meeting and Event Planning degree requires a minimum
AAS DEGREES PROGRAM REQUIREMENTS Code 3281 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries	levels of meeting and event professionals by focusing on management issues critical to the meeting industry. The Meeting and Event Planning degree requires a minimum 64 hours in program requirements, program electives and
AAS DEGREES PROGRAM REQUIREMENTS Code 3281 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries	levels of meeting and event professionals by focusing on management issues critical to the meeting industry. The Meeting and Event Planning degree requires a minimum 64 hours in program requirements, program electives and general education.
AAS DEGREES PROGRAM REQUIREMENTS Code 3281 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries	levels of meeting and event professionals by focusing on management issues critical to the meeting industry. The Meeting and Event Planning degree requires a minimum 64 hours in program requirements, program electives and general education. PROGRAM REQUIREMENTS
AAS DEGREES PROGRAM REQUIREMENTS Code 3281 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries	levels of meeting and event professionals by focusing on management issues critical to the meeting industry. The Meeting and Event Planning degree requires a minimum of 4 hours in program requirements, program electives and general education. PROGRAM REQUIREMENTS Code 3282 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries
AAS DEGREES PROGRAM REQUIREMENTS Code 3281 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries	levels of meeting and event professionals by focusing on management issues critical to the meeting industry. The Meeting and Event Planning degree requires a minimum 64 hours in program requirements, program electives and general education. PROGRAM REQUIREMENTS Code 3282 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries
AAS DEGREES PROGRAM REQUIREMENTS Code 3281 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries	levels of meeting and event professionals by focusing on management issues critical to the meeting industry. The Meeting and Event Planning degree requires a minimum 64 hours in program requirements, program electives and general education. PROGRAM REQUIREMENTS Code 3282 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries
AAS DEGREES PROGRAM REQUIREMENTS Code 3281 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries	levels of meeting and event professionals by focusing on management issues critical to the meeting industry. The Meeting and Event Planning degree requires a minimum 64 hours in program requirements, program electives and general education. PROGRAM REQUIREMENTS Code 3282 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries
AAS DEGREES PROGRAM REQUIREMENTS Code 3281 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries	levels of meeting and event professionals by focusing on management issues critical to the meeting industry. The Meeting and Event Planning degree requires a minimum 64 hours in program requirements, program electives and general education. PROGRAM REQUIREMENTS Code 3282 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries
AAS DEGREES PROGRAM REQUIREMENTS Code 3281 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries	levels of meeting and event professionals by focusing on management issues critical to the meeting industry. The Meeting and Event Planning degree requires a minimum 64 hours in program requirements, program electives and general education. PROGRAM REQUIREMENTS Code 3282 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries
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AAS DEGREES PROGRAM REQUIREMENTS Code 3281 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries	levels of meeting and event professionals by focusing on management issues critical to the meeting industry. The Meeting and Event Planning degree requires a minimum 64 hours in program requirements, program electives and general education. PROGRAM REQUIREMENTS Code 3282 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries
AAS DEGREES PROGRAM REQUIREMENTS Code 3281 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries	levels of meeting and event professionals by focusing on management issues critical to the meeting industry. The Meeting and Event Planning degree requires a minimum of 4 hours in program requirements, program electives and general education. PROGRAM REQUIREMENTS Code 3282 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries
AAS DEGREES PROGRAM REQUIREMENTS Code 3281 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries	levels of meeting and event professionals by focusing on management issues critical to the meeting industry. The Meeting and Event Planning degree requires a minimum 64 hours in program requirements, program electives and general education. PROGRAM REQUIREMENTS Code 3282 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries
AAS DEGREES PROGRAM REQUIREMENTS Code 3281 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries	levels of meeting and event professionals by focusing on management issues critical to the meeting industry. The Meeting and Event Planning degree requires a minimum of 4 hours in program requirements, program electives and general education. PROGRAM REQUIREMENTS Code 3282 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries
AAS DEGREES PROGRAM REQUIREMENTS Code 3281 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries	levels of meeting and event professionals by focusing on management issues critical to the meeting industry. The Meeting and Event Planning degree requires a minimum of 4 hours in program requirements, program electives and general education. PROGRAM REQUIREMENTS Code 3282 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries
AAS DEGREES PROGRAM REQUIREMENTS Code 3281 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries	levels of meeting and event professionals by focusing on management issues critical to the meeting industry. The Meeting and Event Planning degree requires a minimum of 4 hours in program requirements, program electives and general education. PROGRAM REQUIREMENTS Code 3282 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries
AAS DEGREES PROGRAM REQUIREMENTS Code 3281 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries	levels of meeting and event professionals by focusing on management issues critical to the meeting industry. The Meeting and Event Planning degree requires a minimum 64 hours in program requirements, program electives and general education. PROGRAM REQUIREMENTS Code 3282 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries
AAS DEGREES PROGRAM REQUIREMENTS Code 3281 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries	levels of meeting and event professionals by focusing on management issues critical to the meeting industry. The Meeting and Event Planning degree requires a minimum of 4 hours in program requirements, program electives and general education. PROGRAM REQUIREMENTS Code 3282 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries
AAS DEGREES PROGRAM REQUIREMENTS Code 3281 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries	levels of meeting and event professionals by focusing on management issues critical to the meeting industry. The Meeting and Event Planning degree requires a minimum of 4 hours in program requirements, program electives and general education. PROGRAM REQUIREMENTS Code 3282 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries
AAS DEGREES PROGRAM REQUIREMENTS Code 3281 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries	levels of meeting and event professionals by focusing on management issues critical to the meeting industry. The Meeting and Event Planning degree requires a minimum of 4 hours in program requirements, program electives and general education. PROGRAM REQUIREMENTS Code 3282 Trav 1121 Introduction to the Travel, Tourism and Meetings Industries

Trav

Trav

1210 Introduction to Global Distribution

Systems3

Trav

1122 Introduction to World Destinations3

1123 Introduction to Travel Documentation3

Irav	1126	North American Destinations	.1	Irav	1128	Asian and South Pacific Destinations1
Γrav	1127	European Destinations	.1	Trav	1129	Central and South American
Γrav		Asian and South Pacific Destinations				Destinations1
Trav		Central and South American		Trav	1120	African Destinations1
IIav	1129					
_		Destinations		Trav	1202	Business Management for the Travel
Γrav		African Destinations	.1			Professional3
Γrav	1202	Business Management for the Travel		Trav	1210	Introduction to Global Distribution
		Professional	3			Systems3
Гrav	1210	Introduction to Global Distribution		Trav	1820	Selected Topics
IIav	1210					
_		Systems		Trav	2130	Airline Operations and Security
Γrav		Selected Topics				Procedures2
Γrav	2130	Airline Operations and Security		Trav	2220	Internet Navigation Skills for the Travel
		Procedures	2			Professional3
Γrav	2220	Internet Navigation Skills for the Travel		Trav	2221	World Cultures and International
iiuv	2220	Professional		IIuv		Tourism Issues3
-	0000			_	0000	
Γrav		Advanced Travel Documentation		Trav		Advanced Travel Documentation3
Γrav	2230	Travel Sales and Customer Service	2	Trav	2230	Travel Sales and Customer Service2
Γrav	2236	Cruise Industry Sales Specialization	3	Trav	2236	Cruise Industry Sales Specialization3
Γrav		Tour Escorting, Planning and		Trav		Tour Escorting, Planning and
		Operations				Operations3
F	0000			T	0000	Advance and Only and Transian
Γrav		Advanced Selected Topics		Trav		Advanced Selected Topics3
Co-op	2861	Cooperative Education/Internship		Со-ор	2860	Cooperative Education/Internship
		(Occupational)	.1			(Occupational)1 to 4
Hotel	2211	Rooms Division Operations		Foods	2203	Professional Catering and Banquet
Hotel		Quality Management of Service in the		. 0000		Management3
IOLEI	2240		0	Llatal	1100	
		Hospitality Industry		Hotel		Introduction to the Hospitality Industry3
				Hotel	2211	Rooms Division Operations3
Genera	al Educ	cation1	9	Hotel	2240	Quality Management of Service in the
Comple	ete the	following 19 semester hours. Program				Hospitality Industry3
		include Busin 1100 and Cis 1110, which		Hotel	2253	Professional Meeting and Event
				i iotoi	2200	Management3
		emporary Life Skills requirement.				Management
Earth		Fundamentals of Earth Science				
Engli	1101	English Composition I				d Tourism Professional certificate
√lath	1100	Business Mathematics	3	requires	20 cre	dits in the courses listed below. Code 4281
Philo	1114	Business Ethics		•		
Psych		Adjustment		PROGE	RAM F	REQUIREMENTS
-	1100	Fundamentals of Chasels				
Speec	1100	Fundamentals of Speech		Trav	1202	Business Management for the Travel
		Communication	3			Professional3
Total C	redits	Required6	.4	Trav	1210	Introduction to Global Distribution
otal O	· caito	i toquii ou	' '			Systems3
				Trav	2220	Internet Navigation Skills for the Travel
CERTI	FICA	IES		IIav	2220	_
The Me	etina	and Event Planning certificate requires a				Professional3
				Trav	2221	World Cultures and International
olai oi i	23 Cred	dit hours from the list below. Code 4279				Tourism Issues3
	D 4 5 4	DECLUDEN JENITO		Trav	2230	Travel Sales and Customer Service2
PROG	HAIVI	REQUIREMENTS				14
Γrav	1121	Introduction to the Travel, Tourism				1-
		and Meetings Industries	2	_		
F.,			J	Progran		
Γrav	4400					tives6
		Introduction to World Destinations				e list below.
Γrav			3		om the	e list below.
		Introduction to World Destinations Fundamentals of Meeting and Event	3	Select fr Trav	om the 1126	list below. North American Destinations1
Γrav	2201	Introduction to World Destinations Fundamentals of Meeting and Event Planning	3	Select fr Trav Trav	om the 1126 1127	list below. North American Destinations1 European Destinations1
Trav Trav	2201 2203	Introduction to World Destinations Fundamentals of Meeting and Event Planning	3 3	Select fr Trav Trav Trav	om the 1126 1127 1128	list below. North American Destinations1 European Destinations1 Asian and South Pacific Destinations1
Trav Trav Trav	2201 2203 2205	Introduction to World Destinations Fundamentals of Meeting and Event Planning Incentive Travel and Planning Advanced Meeting and Event Planning	3 3	Select fr Trav Trav	om the 1126 1127 1128	list below. North American Destinations1 European Destinations1 Asian and South Pacific Destinations1 Central and South American
Trav Trav	2201 2203 2205	Introduction to World Destinations	3 3 3 3	Select fr Trav Trav Trav	om the 1126 1127 1128	list below. North American Destinations1 European Destinations1 Asian and South Pacific Destinations1
Trav Trav Trav	2201 2203 2205	Introduction to World Destinations	3 3 3 3	Select fr Trav Trav Trav	om the 1126 1127 1128 1129	list below. North American Destinations1 European Destinations1 Asian and South Pacific Destinations1 Central and South American
Trav Trav Trav	2201 2203 2205	Introduction to World Destinations	3 3 3	Select fr Trav Trav Trav Trav Trav	om the 1126 1127 1128 1129 1130	list below. North American Destinations
Frav Frav Frav Frav	2201 2203 2205 2207	Introduction to World Destinations	3 3 3 3 3	Select fr Trav Trav Trav Trav	om the 1126 1127 1128 1129 1130	list below. North American Destinations
Trav Trav Trav Trav	2201 2203 2205 2207 m Elec	Introduction to World Destinations	3 3 3 3 3 8 5	Select fr Trav Trav Trav Trav Trav Trav	om the 1126 1127 1128 1129 1130 1150	list below. North American Destinations
Trav Trav Trav Trav	2201 2203 2205 2207 m Elec	Introduction to World Destinations	3 3 3 3 3 8 5	Select fr Trav Trav Trav Trav Trav Trav Trav	om the 1126 1127 1128 1129 1130 1150	list below. North American Destinations
Trav Trav Trav Trav Progra i Student	2201 2203 2205 2207 m Elec	Introduction to World Destinations	3 3 3 3 3 8 5	Select fr Trav Trav Trav Trav Trav Trav	om the 1126 1127 1128 1129 1130 1150	list below. North American Destinations
Trav Trav Trav Trav Trav Prograi Student pelow:	2201 2203 2205 2207 m Elects mus	Introduction to World Destinations Fundamentals of Meeting and Event Planning	3 3 3 3 3 8 5	Select fr Trav Trav Trav Trav Trav Trav Trav	om the 1126 1127 1128 1129 1130 1150	list below. North American Destinations
Trav Trav Trav Trav Prograi Student below: Trav	2201 2203 2205 2207 m Elects mus 1123	Introduction to World Destinations	3 3 3 3 3 8 5	Select fr Trav Trav Trav Trav Trav Trav Trav Tra	om the 1126 1127 1128 1129 1130 1150 1820 2130	list below. North American Destinations
Trav Trav Trav Trav Progra i Student	2201 2203 2205 2207 m Elects mus 1123	Introduction to World Destinations	3 3 3 3 3 8 5	Select fr Trav Trav Trav Trav Trav Trav Trav	om the 1126 1127 1128 1129 1130 1150 1820 2130	list below. North American Destinations
Frav Frav Frav Frogran Student pelow: Frav Frav	2201 2203 2205 2207 m Elects mus 1123 1124	Introduction to World Destinations Fundamentals of Meeting and Event Planning	3 3 3 3 3 8 5 5	Select fr Trav Trav Trav Trav Trav Trav Trav Tra	om the 1126 1127 1128 1129 1130 1150 1820 2130	list below. North American Destinations
Trav Trav Trav Trav Prograi Student below: Trav	2201 2203 2205 2207 m Elec ts mus 1123 1124	Introduction to World Destinations	3 3 3 3 8 5 5	Select fr Trav Trav Trav Trav Trav Trav Trav Tra	om the 1126 1127 1128 1129 1130 1150 1820 2130 2201 2203	list below. North American Destinations

Meeting's Industries	Trav	2207	Marketing for the Travel, Tourism and	Select	courses	from the list below.
Trav 2210 Advanced Global Distribution Systems				Trav	1123	Introduction to Travel Documentation3
Trav 2229 Advanced Travel Documentation	Trav	2210		Trav		
Trav 2236 Cruise Industry Sales Specialization 3 Trav 2240 Tour Escorting, Planning, and Operations 240 Tour Escorting, Planning and Operations 3 Trav 2480 Advanced Selected Topics 3 Trav 2820 Advanced Selected Topics 3 Trav 2820 Advanced Selected Topics 3 Trav 2820 Advanced Selected Topics 3 Trav 1130 African Destinations 2 Trav 1130 Outside Sales for the Home-Based and Independent Contractor 210 Introduction to Global Distribution Systems 3 Trav 1202 Business Management for the Travel Professional Meeting and Event 1220 Introduction to Global Distribution Systems 3 Trav 1210 Introduction to Global Distribution Systems 3 Trav 1210 Introduction to Global Distribution Systems 3 Trav 1220 Internet Navigation Skills for the Travel Professional Meeting and Event 1222 Undependent Contractor 2220 Internet Navigation Skills for the Travel Professional Meeting and Event 1222 Business Management for the Travel Professional Meeting and Event 1222 Distinct Sales for the Home-Based and Independent Contractor 2220 Internet Navigation Skills for the Travel Professional Meeting and Event 1222 Distinct Sales for the Home-Based and Independent Contractor 2220 Internet Navigation Skills for the Travel Professional 3 Trav 1210 Introduction to Global Distribution Systems 3 Trav 1220 Business Management for the Travel Professional 3 Trav 1230 Advanced Global Distribution Systems 3 Trav 1240 Advanced Global Distribution Systems 3 Trav 1250 Advanced Global Distribution Systems 3 Trav 1260 Advanced Global Distribution Systems 3 Trav 1270 Advanced Global Distribution Systems 3 Trav 1280 Advanced Global Distribution Systems 3 Trav 1290 Advanced Global Distribution Systems 3 Trav 1200 Advanced Global Distribution Systems 3 Trav 1221 Introduction to Global Distribution Systems 3 Trav 1222 Internet Navigation Skills for the Travel Trave 1 Travel						
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	Tourism Issues3		Professional
Trav	2229 Advanced Travel Documentation3	Trav	1820 Selected Topics
Trav	2230 Travel Sales and Customer Service2	Trav	2130 Airline Operations and Security
Trav	2236 Cruise Industry Sales Specialization3		Procedures
Trav	2240 Tour Escorting, Planning and	Trav	2230 Travel Sales and Customer Service
	Operations3	Trav	2236 Cruise Industry Sales Specialization
Trav	2820 Advanced Selected Topics3	Trav	2820 Advanced Selected Topics
Co-op	2860 Cooperative Education/Internship		·
•	(Occupational)1 to 4		
		\\/_I_I	l

The Travel Geography Specialist certificate requires a total of 18 credit hours in the courses listed below. Code 4292

PROGF	RAM	REQUIREMENTS	
Trav	1122	Introduction to World Destinations	3
Trav	2207	Marketing for the Travel, Tourism and Meetings Industries	3
Trav	2220	Internet Navigation Skills for the Travel Professional	3
Trav	2221	World Cultures and International	
		Tourism Issues	3
			12
Program	n Elec	tives	6
Select th	ree cr	edits from the list below:	
Trav	1126	North American Destinations	1
Trav	1127	European Destinations	1
Trav	1128	Asian and South Pacific Destinations	1
Trav	1129	Central and South American	
		Destinations	1
Trav	1130	African Destinations	1
Select th	ree cr	edits from the list below:	
Trav	1150	Outside Sales for the Home-Based and	
		Independent Contractor	2

Irav	1202	Business Management for the Travel	
		Professional	3
Trav	1820	Selected Topics	3
Trav	2130	Airline Operations and Security	
		Procedures	2
Trav	2230	Travel Sales and Customer Service	2
Trav	2236	Cruise Industry Sales Specialization	3
Trav	2820	Advanced Selected Topics	3

Welding

Certificate

The Welding program provides a competency-based, individualized method of instruction. This program provides training at various levels of competency in the four most common methods of metal joining: shielded metal arc (stick), gas tungsten arc (TIG), oxyacetylene (gas) and gas metal arc (MIG). Plasma welding and cutting, both manual and semi-automatic, are included in various courses. This certificate requires 30 credits in the courses listed below. Code 4995

PROGRAM REQUIREMENTS

111001	.,	Lagonitaivia	
Weld	1100	Welding I	3
Weld		Oxy-Fuel, Welding, Plasma Cutting	
		and Brazing	3
Weld	1122	Shielded Metal Arc (SMAW)	
Weld	1132	Gas Metal Arc (MIG)	3
Weld	1142	Gas Tungsten Arc (TIG)	3
Weld	1151	Pipe Welding and Fabrication	3
Weld	1160	Skill Assessment	3
Manuf	1101	Industrial Design/CAD	3
Manuf		Machine Shop I	
Math		Technical Mathematics I	









Course Descriptions

ACCOUNTING

Also see courses listed under Business, Management and Marketing.

ACCOUNTING 0430

Bookkeeping

1 credit hour

Introduction to the accounting cycle of a service company, emphasizing rudimentary accounting concepts. (1 lecture hour)

ACCOUNTING 1110

Accounting Procedures

3 credit hours

The accounting cycles of service organizations and merchandisers focusing on the recording of business transactions and the preparation of financial statements for such organizations. Includes specific accounting concepts relating to current assets, long-term assets, current liabilities, payroll and the operations of corporations. (3 lecture hours)

ACCOUNTING 1140 Financial Accounting

4 credit hours

An introduction to financial accounting concepts. A study of the accounting cycles of service organizations and merchandisers emphasizing the recording of business transactions, and the preparation of financial statements for such organizations. Emphasis is also placed on the accounting principles relating to the measurement, valuation and reporting of assets, liabilities and equity, and related internal control considerations. (4 lecture hours)

ACCOUNTING 1150

Managerial Accounting

4 credit hours

An introduction to managerial accounting and cost concepts. A study of the accounting cycle of manufacturers emphasizing the recording of business transactions relating to the manufacture of inventory and the preparation of financial statements. Emphasis is also placed on analysis of cost behavior, budgeting concepts, standard cost systems and variance analysis, and the use of accounting information to make decisions. Prerequisite: Accounting 1140 or consent of instructor (4 lecture hours)

ACCOUNTING 1175

Microcomputer Accounting

2 credit hours

Introduction to a general ledger software package on a microcomputer. Keyboarding and mouse skills are required. Prerequisite: Accounting 1110 or Accounting 1140, or consent of the instructor. (2 lecture hours)

ACCOUNTING 1840

Independent Study in Accounting

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

ACCOUNTING 2200

Income Tax Return Preparation

3 credit hours

Individual income tax return preparation emphasizing the completion of basic tax returns. Resources are provided under the Volunteer Income Tax Assistance (VITA) program that is administered by the Internal Revenue Service. Prerequisite: Accounting 1140 or consent of instructor (3 lecture hours)

ACCOUNTING 2205

Federal Taxation I

3 credit hours

Federal income tax concepts relating to individuals and sole proprietorships. Prerequisite: Accounting 1150 or consent of instructor (3 lecture hours)

ACCOUNTING 2206

Federal Taxation II

3 credit hours

Federal income tax concepts relating to corporations, partnerships, S-corporations, trusts and exempt organizations. Also includes the tax consequences of international transactions. Prerequisite: Accounting 2205 or consent of instructor (3 lecture hours)

ACCOUNTING 2241

Intermediate Accounting I

4 credit hours

In-depth study of the theory and concepts of accounting emphasizing the income statement and balance sheet and the accounting for cash, receivables, inventory, plant assets, intangible assets, current liabilities and contingencies. Completion of Computer Information Systems (CIS) 1221 or equivalent is recommended prior to enrollment. Prerequisite: Accounting 1150 or consent of instructor (4 lecture hours)

ACCOUNTING 2242

Intermediate Accounting II

4 credit hours

In-depth study of the theory and concepts of accounting emphasizing the measurement and valuation of long-term liabilities, stockholders' equity, corporate investments in securities, revenue recognition, post-retirement benefits, leases, interperiod tax allocations, accounting changes, full disclosure, ratio analysis and the preparation and presentation of the statement of cash flows. Prerequisite: Accounting 2241 or consent of instructor (4 lecture hours)

ACCOUNTING 2251

Cost Accounting

3 credit hours

In-depth study of methods used by managers for decision making, budgeting and performance evaluation. Emphasizes cost accounting systems and procedures for data accumulation and cost control. Prerequisite: Accounting 1150 or consent of instructor (3 lecture hours)

ACCOUNTING 2260

Advanced Accounting

3 credit hours

In-depth study of the accounting and reporting issues related to consolidated financial statements with an emphasis on consolidation theory, procedures for eliminating various intercompany transactions, and accounting for business combinations. Other topics

include partnership accounting, international operations and corporate insolvency. Prerequisite: Accounting 2242 or consent of instructor (3 lecture hours)

ACCOUNTING 2265

Governmental and Not-for-Profit Accounting

3 credit hours

In-depth study of governmental and not-for-profit entity theory, practice and reporting issues. Emphasis on accounting principles relating to governmental agencies, colleges and universities, health care and not-for-profit organizations. Completion of Accounting 2241 is recommended prior to enrollment. (3 lecture hours)

ACCOUNTING 2271

Auditing I

3 credit hours

An introduction to the role of the public accountant, professional standards, attestation and other assurance services, audit evidence and documentation, and reports on audited financial statements, with particular emphasis on the auditor's decision-making process by integrating coverage of the components of audit risk with tests of controls and substantive tests that relate to selected transaction cycles. Prerequisite: Accounting 2241 or 2242, or consent of instructor (3 lecture hours)

ACCOUNTING 2272

Auditing II

3 credit hours

Further study of auditing and other assurance services emphasizing professional standards and ethics, legal liability of auditors, regulation of the public accounting profession, internal controls in information technology systems, the components of audit risk, tests of controls and substantive tests relating to selected transaction cycles, audit sampling applications, other services performed by auditors, and related reporting requirements. Prerequisite: Accounting 2271 or consent of instructor (3 lecture hours)

For additional information, call Lisa Capozzoli, program coordinator, at (630) 942-3400, or call the Business and Technology division at (630) 942-2592.

ADULT BASIC EDUCATION

ADULT BASIC EDUCATION 0700

Reading Skills Development I

3 credit hours

Introduces basic word recognition and word attack skills, including pre-reading skills, sight words, phonics skills and structural analysis skills; comprehension and advanced reading skills in relation to words, sentences, selections and sequence; specialized skills in locating and organizing information, reading maps, interpreting graphs, tables or diagrams; and the development of personal reading skills. Mandatory testing. May be taken up to three times for credit; course does not count toward GPA/graduation and is non-transferable. Prerequisite: Consent of instructor (3 lecture hours)

ADULT BASIC EDUCATION 0701

Reading Skills Development II

3 credit hours

Reinforces and reviews basic word recognition and word attack skills, including pre-reading skills, sight words,

phonics skills and structural analysis skills; comprehension and advanced reading skills in relation to words, sentences, selections and sequence; specialized skills in locating and organizing information, reading maps, interpreting graphs, tables or diagrams; and the development of personal reading skills. May be taken up to three times for credit; course does not count toward GPA/graduation and is non-transferable. (3 lecture hours)

ADULT BASIC EDUCATION 0702

Pre-GED Reading Skills I

3 credit hours

Reinforces and reviews word recognition and word attack skills of structural analysis; comprehension and advanced reading skills including deriving meaning from words, sentences, selections and identifying sequence; specialized reading skills including locating and organizing information, reading maps and interpreting graphs, tables or diagrams. May be taken up to three times for credit; course does not count toward GPA/graduation and is non-transferable. Prerequisite: Consent of instructor (3 lecture hours)

ADULT BASIC EDUCATION 0703

Pre-GED Reading Skills II

3 credit hours

Introduces personal reading skills and reading in the social studies and science content area. May be taken up to three times for credit; course does not count toward GPA/graduation and is non-transferable. (3 lecture hours)

ADULT BASIC EDUCATION 0710

Basic English Skills I

3 credit hours

Introduces basic English grammar and usage, spelling/vocabulary/dictionary use, capitalization and punctuation. Mandatory testing. May be taken up to three times for credit; course does not count toward GPA/graduation and is non-transferable. Prerequisite: Consent of instructor (3 lecture hours)

ADULT BASIC EDUCATION 0720

Basic Mathematical Skills I

3 credit hours

Introduces basic arithmetic skills, including the fundamental operations with whole numbers, decimals, fractions and mixed numbers verbal reasoning and measurement systems. May be taken up to three times for credit; course does not count toward GPA/graduation and is non-transferable. Prerequisite: Consent of instructor (3 lecture hours)

ADULT BASIC EDUCATION 0721

Pre-GED Mathematical Skills II

3 credit hours

Reinforces and reviews arithmetic skills, including the fundamental operations with decimals, fractions and mixed numbers verbal reasoning and measurement systems. Introduces percents, ratio and proportion, charts and graphs. May be taken up to three times for credit; course does not count toward GPA/graduation and is non-transferable. Prerequisite: Consent of instructor (3 lecture hours)

For additional information, call (630) 942-3697 or (630) 942-2551.

ADULT SECONDARY EDUCATION

ADULT SECONDARY EDUCATION 0840 Citizenship Preparation

3 credit hours

Intended for individuals preparing for naturalization and for successfully completing the oral interview and written test required for U.S. citizenship. The course provides an overview of significant historical events; facts and concepts of federal, state and local government; current political, governmental and social information; and explanations of United States' culture and institutions. The naturalization process and the One Hundred Questions developed by the Bureau of Citizenship and Immigration Services (BCIS) are also covered. May be repeated up to three times. Prerequisite: Consent of instructor (3 lecture hours)

AIR CONDITIONING

AIR CONDITIONING 1100

Refrigeration Principles

3 credit hours

Basic laws of matter, fluids, gases, compression systems, refrigeration controls, refrigerants and components. Included are Pressure Enthalpy (PH) charts, evaporators, condensers, metering devices, compressors and an introduction to service refrigeration systems. (2 lecture hours, 2 lab hours)

AIR CONDITIONING 1105

Introduction to Safety, Materials and Equipment

3 credit hours

The use and care of hand tools, special tools used in air conditioning, pipe fitting, copper tubing, brass fitting, flaring, soldering and safety. Orientation to job entry specification and occupational opportunities. (2 lecture hours, 2 lab hours)

AIR CONDITIONING 1108

Refrigerant Certification

1 credit hour

Environmental Protection Agency (EPA) regulations, refrigerant handling, refrigerant equipment and certification types are covered. Federal Government requires all individuals who open a system or container holding refrigerant to be certified. EPA refrigerant certification test given. (1 lecture hour)

AIR CONDITIONING 1110

Introduction to Controls

3 credit hours

Practical study of electricity, electrical hardware, and electrical test instruments that are used in the heating, air conditioning and refrigeration industry. Basic electricity, circuits, schematics, power distribution, electrical components and motors. (2 lecture hours, 2 lab hours)

AIR CONDITIONING 1112

Residential Refrigeration

3 credit hours

Analysis of the operation of refrigeration systems, leak detection, leak repair, charging, component, replacements, schematic reading and troubleshooting domestic

refrigerator and window air conditioning units.
Prerequisites: Air Conditioning 1100, 1105 and 1110 or consent of instructor. (2 lecture hours, 2 lab hours)

AIR CONDITIONING 1161

Introduction to Sheet Metal

2 credit hours

Basic fitting layouts. Various types of seams, elbows and triangulation used in constructing various square and round fittings. Drawing and fabrication of the fittings are required. (4 lab hours)

AIR CONDITIONING 1180

Introduction to Heating

5 credit hours

Gas combustion, venting, operation of a heating unit, electrical circuitry, zoning and accessories. Servicing, troubleshooting and repairing mechanical and electrical components, and proper installation of heating units. Prerequisite: Air Conditioning 1110 or consent of instructor (4 lecture hours, 2 lab hours)

AIR CONDITIONING 1186

Introduction to Hydronics

2 credit hours

Principles of steam, water, piping and their components are covered with respect to boilers, water treatment and electrical circuitry. Prerequisite: Air Conditioning 1180 or consent of instructor (1 lecture hour, 2 lab hours)

AIR CONDITIONING 1187

Central Heating Plants

3 credit hours

Theory of large boiler systems operation. Low and high pressure boilers, air handling equipment, heat exchangers, pumps, controls, water treatment, accessories, service and preventive maintenance are covered. Field trips to central heating plants are included. Prerequisite: Air Conditioning 1180 or consent of instructor. (2 lecture hours, 2 lab hours)

AIR CONDITIONING 1827

Selected Topics

1 credit hour

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (1 lecture hour)

AIR CONDITIONING 1840

Independent Study in Air Conditioning

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

AIR CONDITIONING 2201

Residential Air Conditioning

3 credit hours

Split and package air-conditioning systems, proper installation, operation, servicing, repair of mechanical and electrical components, and air treatment. Prerequisites: Air

Conditioning 1100, 1105 and 1110 or equivalents, or consent of instructor (2 lecture hours, 2 lab hours)

AIR CONDITIONING 2202

Commercial Air Conditioning

3 credit hours

Commercial air-conditioning equipment, mechanical and electrical components, service repair, operation, capacity control, proper installation, zone control and psychometrics. Includes mechanical components of rooftop heating systems and start-up procedures. Prerequisites: Air Conditioning 1180 and 2201 or consent of instructor (2 lecture hours, 2 lab hours)

AIR CONDITIONING 2205

Heat Pumps

2 credit hours

Theory of the refrigeration cycle with respect to heat pumps and electrical heat. Includes mechanical and electrical operation, service, repair and proper installation. Prerequisites: Air Conditioning 1100, 1105 and 1110 or consent of instructor (1 lecture hour, 2 lab hours)

AIR CONDITIONING 2210

Commercial Refrigeration

5 credit hours

High, medium and low temperature refrigeration application, operation of mechanical and electrical components, service and repair of electrical circuitry and mechanical components, capacity controls, walk-ins, reach-ins, ice machines, supermarket refrigeration equipment, refrigeration piping, heat reclaim and start-up procedures. Prerequisites: Air Conditioning 1100, 1105 and 1110 or consent of instructor (4 lecture hours, 2 lab hours)

AIR CONDITIONING 2220

Installation

3 credit hours

Proper installation of heating, air conditioning and refrigeration systems, piping, duct installation, electrical circuitry and accessories. Prerequisites: Air Conditioning 1110 and 1105 or consent of instructor (2 lecture hours, 2 lab hours)

AIR CONDITIONING 2225

Troubleshooting Systems

3 credit hours

Systematic evaluation of system pressure, temperature, compressor efficiency, mechanical and electrical components. Study of system performance on live equipment. Prerequisites: Air Conditioning 2202 and 2210 or consent of instructor (2 lecture hours, 2 lab hours)

AIR CONDITIONING 2230

Advanced Controls

3 credit hours

Heating, Ventilation and Air Conditioning (HVAC) control systems in commercial buildings, including electric, pneumatic, electronic and Direct Digital Control (DDC) controls. Prerequisites: Air Conditioning 1100, 1105 and 1110 or consent of instructor (2 lecture hours, 2 lab hours)

AIR CONDITIONING 2231

Direct Digital Control of HVAC Systems

3 credit hours

Examines state-of-the-art heating, ventilating, air conditioning (HVAC) Direct Digital Control (DDC) systems. Emphasis is on system configurations, applications, installation and troubleshooting. Prerequisite: Air Conditioning 2230 with a grade of "C" or better, or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

AIR CONDITIONING 2232

Energy Audits/Economics

2 credit hours

Purpose, objectives and mechanics of the energy audit and economic processes include the audit procedures, heating, ventilation, air conditioning and refrigeration systems, lighting, auxiliary equipment, energy conserving, cost-saving measures and analysis techniques that are necessary for evaluation of energy projects. (1 lecture hour, 2 lab hours)

AIR CONDITIONING 2236

Central Cooling Plants

3 credit hours

Theory of centrifugal, absorption and screw systems, minor repairs, service, preventive maintenance of pumps, air-handling equipment and controls are covered. Field trips to central cooling plants are included. (2 lecture hours, 2 lab hours)

AIR CONDITIONING 2240

Load Calculations and Duct Design

5 credit hours

Techniques and procedures necessary to evaluate residential and commercial heat loss, heat gain and duct layout design. Heat transmission, infiltration, R-value, U-valve, duct analysis, duct sizing, duct and register location and selection, and equipment sizing and selection. (4 lecture hours, 2 lab hours)

AIR CONDITIONING 2241

Industrial Air Conditioning Design

3 credit hours

Design and application of industrial air conditioning, psychrometrics, load calculation, equipment selection, ventilation, duct design, pipe design and automatic controls: Prerequisites: Air Conditioning, 1100, 1105, 1110 and 2240, and one of the following: Mathematics 1100 or Mathematics 1115, or consent of instructor. (2 lecture hours, 2 lab hours)

AIR CONDITIONING 2250

System Balancing

2 credit hours

Covers air-delivery equipment, duct distribution, duct pressure, cubic feet per minute, fluid flow, pumps, piping, refrigeration systems, testing instruments and fine tuning of systems. Prerequisites: Air Conditioning 1100, 1105 and 1110 with a grade of "C" or better or consent of instructor (1 lecture hour, 2 lab hours)

AIR CONDITIONING 2260

Heating and Air Contracting

3 credit hours

Principles of Heating, Ventilation, Air Conditioning and Refrigeration (HVACR) contracting. Includes estimating, vendor selection and sales development in the context of starting and growing an HVACR business. Prerequisite: Accounting 1140 with a grade of "C" or better or consent of instructor (3 lecture hours)

For additional information, call Herb Haushahn, program coordinator, (630) 942-2599 or (630) 942-2197, or call the Business and Technology division at (630) 942-2592.

ANATOMY AND PHYSIOLOGY

ANATOMY AND PHYSIOLOGY 1500 (IAI L1 904L) Survey of Human Anatomy and Physiology

4 credit hours

Essential principles of human anatomy and physiology are presented, including basic chemistry, cell and tissue studies, and an overview of all the body systems. Intended as a survey course for certain allied health and social service programs, and as a general natural science course. (3 lecture hours, 2 lab hours)

ANATOMY AND PHYSIOLOGY 1551 (IAI L1 904L) Human Anatomy and Physiology I

4 credit hours

First semester of a two-semester sequence dealing with the structure and function of the human body and mechanisms for maintaining homeostasis within it. Includes the study of cells, tissues, and the integumentary, skeletal, muscular and nervous systems. Course is intended to be an alternative to Anatomy and Physiology 1571; credit toward graduation will be granted for Anatomy and Physiology 1551 or Anatomy and Physiology 1571, but not for both. Biology 1151 is strongly recommended. (3 lecture hours, 3 lab hours)

ANATOMY AND PHYSIOLOGY 1552 Human Anatomy and Physiology II

4 credit hours

Continuation of the study of the structure and function of the human body and the mechanisms for maintaining homeostasis within it. The endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive systems, as well as the concepts of development, metabolism, fluid and electrolyte balance, and acid-base balance are included. Course is intended to be an alternative to Anatomy and Physiology 1572; credit toward graduation will be granted for Anatomy and Physiology 1552 or Anatomy and Physiology 1572, but not for both. Prerequisite: Anatomy and Physiology 1551 or 1571, with a grade of "C" or better (3 lecture hours, 3 lab hours)

ANATOMY AND PHYSIOLOGY 1571 (IAI L1 904L) Anatomy and Physiology with Cadaver I

4 credit hours

First semester of a two-semester sequence dealing with the structure and function of the human body and mechanisms for maintaining homeostasis within it. Includes the study of cells, tissues, and the integumentary, skeletal, muscular and nervous systems. Identification of anatomical structures on cadavers will be required in the laboratory. Course is intended to be an alternative to Anatomy and Physiology 1551; credit toward graduation will be granted for Anatomy and Physiology 1551 or Anatomy and Physiology 1571, but not for both. Biology 1151 is strongly recommended. (3 lecture hours, 3 lab hours)

ANATOMY AND PHYSIOLOGY 1572 Anatomy and Physiology with Cadaver II

4 credit hours

Continuation of the study of the structure and function of the human body and the mechanisms for maintaining homeostasis within it. The endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive systems, as well as the concepts of development, metabolism, fluid and electrolyte balance, and acid-base balance are included. Identification of anatomical structures on cadavers will be required in the laboratory. Course is intended to be an alternative to Anatomy and Physiology 1552; credit toward graduation will be granted for Anatomy and Physiology 1572, but not for both. Prerequisite: Anatomy and Physiology 1551 or 1571, with a grade of "C" or better (3 lecture hours, 3 lab hours)

ANATOMY AND PHYSIOLOGY 1820

Selected Topics I

3 credit hours

Introductory exploration and analysis of selected topics in anatomy and physiology with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (3 lecture hours)

ANATOMY AND PHYSIOLOGY 1821 **Selected Topics II**

3 credit hours

Introductory exploration and analysis of selected topics in anatomy and physiology with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (2 lecture hours, 2 lab hours)

ANATOMY AND PHYSIOLOGY 1840 Independent Study – Individualized

1 to 4 credit hours

Exploration and analysis of topics within anatomy and physiology to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

For additional information regarding Anatomy and Physiology, call Thomas Ruehlmann, (630) 942-3064, or Nancy Kett, (630) 942-2134.

ANTHROPOLOGY

ANTHROPOLOGY 1100 (IAI S1 901N)

Cultural Anthropology

3 credit hours

Introduces cultural anthropology as a sub-field of anthropology that studies contemporary societies.

Focuses on patterns in human behavior and on culture as the way people live and adapt to their various situations. Emphasis is on the diversity of cultural patterns throughout the world and the essential humanity of all people. Examples from a wide variety of cultures are presented in a variety of formats. (3 lecture hours)

ANTHROPOLOGY 1101 (IAI S1 900N)

Introduction to Anthropology

3 credit hours

Introduces students to the four primary sub-fields of anthropology as well as the applications of anthropological work in addressing domestic, international, and cross-cultural issues and dilemmas. Emphasis is placed on the complementary and interrelated nature of archaeology, cultural anthropology, biological anthropology and linguistic anthropology. (3 lecture hours)

ANTHROPOLOGY 1105 (IAI S1 904D)

Practical Anthropology

3 credit hours

Concentrates on how concepts, techniques and information from anthropology can be applied to helping people solve their problems and improve their lives. Emphasizes the relevance of anthropology to development issues and to concerns of many career fields such as business, medicine, social work, teaching and management. Course examples are drawn from diverse parts of the world. Individual project(s) relate to students' interests and/or careers. (3 lecture hours)

ANTHROPOLOGY 1120 (IAI S1 903)

Discovering Archaeology

3 credit hours

Introduces archaeology as a sub-field of anthropology that studies humanity's prehistory, history and present through the study of material remains and the archaeological record of human development from our origins to modern times. Laboratory work involves working with prehistoric and historic materials consisting of skeletal materials, artifacts, site maps, pottery, early writing, media and simulation. Students may also work with material from field archaeology sites in the United States and other regions in the world and in some terms archaeological field work may be done. (3 lecture hours, 1 lab hour)

ANTHROPOLOGY 1125 (IAI S1 902)

Race, Sex and Human Evolution

3 credit hours

Introduces the field of physical anthropology, sometimes known as biological anthropology. Topics include the scientific foundations for studying race and human variation as well as popular misconceptions about human genetic diversity; primatology, including a survey of living primate forms; evolutionary theory, the fossil record and the development of humans; and humanity's place in world ecology. Introduces forensic anthropology. Includes laboratory work centered on these topics, including skeletal biology. (3 lecture hours, 1 lab hour)

ANTHROPOLOGY 1130 (IAI S1 904D)

People and Cultures of the World

3 credit hours

An introductory exploration of specific peoples and cultures in different areas of the world today, focusing on

interaction between a people's culture and their environmental, societal and historical conditions. The peoples and cultures studied will be of different levels of complexity. Separate course sections focus on different world areas and may have different themes. Sections focusing on non-western cultures should fulfill the appropriate requirement for an Illinois teaching certificate. See comment code published each term for focus and theme. (3 lecture hours)

ANTHROPOLOGY 1800

Experiential Special Topics

1 to 3 credit hours

Experiential courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent. This experiential component may include field studies, interdisciplinary learning and/or the practical application of disciplinerelated concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.).

ANTHROPOLOGY 1820

Selected Topics I

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (3 lecture hours)

ANTHROPOLOGY 1840

Independent Study in Anthropology

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

ANTHROPOLOGY 2200

Introduction to Anthropological Methods

4 credit hours

Provides an overview of the major methods of field work and research design in anthropology and related social and behavioral sciences. Students will analyze one or more topics using appropriate qualitative and quantitative methodological techniques. Some field work may be required. (2 lecture hours, 4 lab hours)

ANTHROPOLOGY 2240

Field Archaeology

3 credit hours

Introduces the techniques and theory of field archaeology through actual excavation of prehistoric and historic field archaeological sites and work with actual artifacts and other materials from those sites. Check the anthropology lab or semester listings of the timing and location of archaeological field schools. Prerequisite: Any course in Anthropology or consent of instructor (1 lecture hour, 4 lab hours)

ANTHROPOLOGY 2245

Laboratory Methods in Archaeology

3 credit hours

Introduces the techniques and theory of archaeological lab analysis through the examination of materials from various sites in both the United States and other regions of the world. Individual projects may center around particular interests. Prerequisite: At least one course in Anthropology or consent of instructor (1 lecture hour, 4 lab hours)

ANTHROPOLOGY 2800

Advanced Experiential Special Topics

1 to 3 credit hours

Advanced experiential courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent. This experiential component may include field studies, interdisciplinary learning and/or the practical application of discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.) Prerequisite: At least one course in the discipline or consent of instructor

ANTHROPOLOGY 2820

Advanced Selected Topics I

3 credit hours

Advanced exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. Prerequisite: At least one course in the discipline or consent of instructor (3 lecture hours)

For additional information regarding Anthropology, call John Staeck at (630) 942-2022, Ellen Johnson at (630) 942-2429, or Alex Bolyanatz at (630) 942-2433.

ARCHITECTURE

ARCHITECTURE 1100

Introduction to Architecture

3 credit hours

Introductory study of the theory, history, principles and practice of architecture. Basic principles of architectural analysis, criticism and aesthetics. Includes the roles and responsibilities of the design professions, including interior design, landscape architecture, urban planning and engineering, and how they relate to each other. (3 lecture hours)

ARCHITECTURE 1101

Basic Architectural Drafting

2 credit hours

Fundamentals of hand drafting and architectural conventions. Includes use of tools, lettering, dimensioning, drafting techniques, and frame construction vocabulary and technology. (1 lecture hour, 2 lab hours)

ARCHITECTURE 1111

Building Materials

4 credit hours

Characteristics, properties and applicable standards of construction materials. Includes all major structural, enclosure and finish materials and standards for materials. Emphasis on the process of material selection and evaluation, including sustainability concepts and criteria. (4 lecture hours)

ARCHITECTURE 1121

Architectural Design Communication

4 credit hours

Introduction to 2-D and 3-D communication and presentation techniques as used in architecture. Includes orthographic, paraline, perspective and freehand drawing techniques and procedures. Covers basic model building and the use of drawing as a problem abstraction and diagramming technique. (1 lecture hour, 6 lab hours)

ARCHITECTURE 1130

Blueprint Reading

2 credit hours

A survey of graphic construction drawings, including paper and electronic mediums. Students learn to interpret construction drawings for residential, commercial and industrial structures. Includes architectural and engineering documents and graphic conventions. (1 lecture hour, 2 lab hours)

ARCHITECTURE 1131

Introduction to Architectural Design

4 credit hours

Basic design theories and strategies related to the development of spatial concepts in architectural design, including composition, color, form, relationship of elements, and development of 2-D and 3-D design projects. Emphasis on concept generation and evaluation. Prerequisites: Architecture 1100 and 1121 with a grade of "C" or better, or equivalent, or consent of instructor (2 lecture, 4 lab hours)

ARCHITECTURE 1141

Construction Methods I

2 credit hours

Survey of basic construction techniques and procedures through project applications. Topics include concrete, masonry, wood frame and lightweight steel construction methods and materials. Includes tool selection and use. Course is not designed to give students trade skills in these areas. (1 lecture hour, 2 lab hours)

ARCHITECTURE 1211

Basic Computer-Aided Drafting—AutoCad

3 credit hours

Fundamentals of Computer-Aided Drafting and Design (CADD). Introduces concepts, techniques and procedures

necessary to facilitate a basic functional understanding of AutoCAD. Prerequisite: Basic technical drafting course, drafting experience or consent of instructor (1 lecture hour, 4 lab hours)

ARCHITECTURE 1212

Advanced Computer-Aided Drafting—AutoCad

3 credit hours

Advanced functions of Computer –Aided Drafting and Design (CADD). Includes advanced commands, system customization and Internet applications. 3-D modeling and rendering will be introduced. Prerequisite: Architecture 1211 or Computer Assisted Design/Drafting 1111 with a grade of "D" or better, or equivalent, or consent of instructor (1 lecture hour, 4 lab hours)

ARCHITECTURE 1301

Introduction to Construction Management

3 credit hours

Construction management as a project delivery system emphasizing the roles and responsibilities of construction managers, contractors, sub-contractors, owners and design professionals, and how they relate to each other. Fundamentals of project administration from preconstruction planning to project close-out through the study and review of case studies. Includes an overview of cost estimating, meetings, project safety and scheduling. (3 lecture hours)

ARCHITECTURE 1820

Selected Topics in Architecture I

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (3 lecture hours)

ARCHITECTURE 1821

Selected Topics in Architecture II

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (2 lecture hours, 2 lab hours)

ARCHITECTURE 1827

Selected Topics in Architecture III

1 credit hour

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (1 lecture hour)

ARCHITECTURE 1840

Architectural Independent Study – Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (4 lecture hours, 8 lab hours)

ARCHITECTURE 2102

Detailing and Construction Documents

5 credit hours

Study of wood frame, masonry, steel and concrete construction systems and techniques. Project-based class that simulates the process of a project's development in an architectural office. Includes analysis and applications of codes, regulations and standards, material review and selection, construction detailing and documentation, and office standards and procedures for computer-aided drafting and design (CADD) application. Prerequisites: Architecture 1101 and Architecture 1111 with a grade of "C" or better, and Architecture 1211 or Computer-Assisted Design/Drafting 1111 with a grade of "C" or better, or consent of instructor (2 lecture hours, 6 lab hours)

ARCHITECTURE 2142

Construction Methods II

2 credit hours

Survey of basic construction techniques and procedures through project applications. Topics include insulation, roofing, siding, installation of doors and windows, drywall, flooring and mechanical and electrical systems. Includes tool selection and use. Course is not designed to give students trade skills in these areas. (1 lecture hour, 2 lab hours)

ARCHITECTURE 2150

Basic Surveying

2 credit hours

Basic procedures, calculations and field data recording techniques used in surveying. Correct procedures for the use of surveyor's tape, engineer's level, and transit and rod to establish locations and elevations. This is not an appropriate course for someone seeking to become a licensed surveyor. (1 lecture hour, 2 lab hours)

ARCHITECTURE 2201

Architectural Design I

5 credit hours

Exploration of form and space of the built environment. Includes process of problem analysis and evaluation to generate concepts and develop solutions. Prerequisite: Architecture 1131 with grade of "C" or better, or equivalent, or consent of instructor. (2 lecture hours, 6 lab hours)

ARCHITECTURE 2202

Architectural Design II

5 credit hours

Continuation of Architectural Design I. Problems involve larger scale, broader scope and increased complexity. Advanced and digital presentation techniques will be used for presentations. Prerequisite: Architecture 2201 with a grade of "C" or better, or equivalent, or consent of instructor. (2 lecture hours, 6 lab hours)

ARCHITECTURE 2203

Introduction to Architectural Theory

3 credit hours

Traces the history of architectural thought through built projects, theoretical designs, and original writings of architects and others. Relates architectural theory to associated philosophical and intellectual movements. Prerequisites: Architecture 1100 with a grade of "D" or better, or equivalent, and English Composition 1101 or

1105 with a grade of "C" or better, or equivalent, or consent of instructor (3 lecture hours)

ARCHITECTURE 2210

Mechanical, Electrical and Plumbing Systems

3 credit hours

An overview of mechanical, electrical and plumbing systems for buildings as used by architects and construction managers. Introduction to systems, equipment, design calculations, and drawings, standards and conventions. Prerequisite: Architecture 1111 with a grade of "C" or better, or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

ARCHITECTURE 2220

Architectural Computer Modeling

2 credit hours

Computer graphics course using Computer-Aided Drafting (CAD) and other software to create computer architectural models and presentations. Prerequisite: Architecture 1211 or Computer-Assisted Design/Drafting 1111 with a grade of "C" or better, or equivalent, or consent of instructor (1 lecture hour, 3 lab hours)

ARCHITECTURE 2230

Structural Systems

3 credit hours

An overview of components and concepts of structural systems in steel, concrete and wood as used by architects. Includes conceptual design and detailing. Prerequisite: Architecture 1211 or Computer-Assisted Design/Drafting 1111 with a grade of "D" or better, or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

ARCHITECTURE 2240

Codes, Specifications and Contracts

3 credit hours

Introduction to the legal framework of construction. The scope and implications of codes, includes model codes and review of structure and organization of the International Building Code (IBC), the organization, structure and role of specifications within construction documents, standard forms of contracts and contractual relationships. Prerequisite: Architecture 1111 or equivalent, or consent of instructor (3 lecture hours)

ARCHITECTURE 2250

Architectural Presentation and Portfolio

3 credit hours

Advanced architectural presentation techniques. Covers both hardcopy and digital product formats. Uses various 3-D modeling software as well as image enhancement and animation software. Prerequisite: Architecture 1121 and Computer-Assisted Design/Drafting 1111 or Architecture 1211, all with a grade of "C" or better, or equivalent, or consent of instructor (1 lecture hour, 4 lab hours

ARCHITECTURE 2260

Construction Estimating

3 credit hours

Basic procedures, calculations and techniques used in construction cost estimating. Includes bidding procedures, different types of construction estimates and the appropriate procedures for each, and the process of quantity take-offs and cost calculations, including

equipment, overhead and profit components. Computer applications to produce estimates and review of existing software titles. Prerequisite: Architecture 1111 or equivalent, or consent of instructor (3 lecture hours)

ARCHITECTURE 2270

Construction Scheduling

3 credit hours

Construction scheduling as a tool for project delivery and documentation, from project conception to building occupancy. Emphasizing the interrelationship of the trades and sequencing of the work during the construction process. Includes schedule composition and schedule implementation for project success. Prerequisites: Architecture 1130 and 1301 with a grade of "C" or better, or equivalent, or consent of instructor (3 lecture hours)

ARCHITECTURE 2820

Advanced Selected Topics in Architecture I

3 credit hours

Advanced exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. Prerequisite: At least one course in the discipline or consent of instructor (3 lecture hours)

ARCHITECTURE 2823

Advanced Selected Topics in Architecture IV

3 credit hours

Advanced exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. Prerequisite: At least one course in the discipline or consent of instructor (6 lab hours)

ARCHITECTURE 2840

Architectural Experimental/Pilot Class

1 to 6 credit hours

Exploration and analysis of topics within the discipline. This course is used to pilot a proposal for a permanent discipline course. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (6 lecture hours, 12 lab hours)

For additional information, call Jane Ostergaard, program coordinator, at (630) 942-2331, Mark Pearson at (630) 942-2763, Ted Kulinski at (630) 942-4124, or call the Business and Technology division.

ART

ART 1100 (IAI F2 900)

Introduction to the Visual Arts

3 credit hours

Overview of the visual arts as transmitters of cultural, humanistic and aesthetic values. Global selections from the remote past to the present examined in thematic studies, including visual elements and design principles, motivations for art making within cultural and historical contexts, material processes, and issues in world art. Designed to encourage visual literacy and develop analytical skills of the non-art major. Field trip may be required. (3 lecture hours)

ART 1101

Drawing I

3 credit hours

Introductory studio course with emphasis on accurate observation and representation, informed use of drawing materials, and awareness of two-dimensional art elements. Course includes vocabulary development and reference to historic models of drawing. (6 lab hours)

ART 1102

Drawing II

3 credit hours

Continued exploration of the nature, scope and principles of drawing. Further development of critical thinking and visual problem-solving abilities. Exploration of additional concepts, materials and processes of visual art. Completion of Art 1151 is recommended prior to enrollment. Prerequisite: Art 1101 with grade of "C" or better or equivalent (6 lab hours)

ART 1105

Introduction to Studio Art

3 credit hours

Introduction to art methods and materials. Includes twodimensional and three-dimensional design concepts introduced through a variety of media. May include painting, drawing, ceramics, sculpture, computer art, jewelry and printmaking. Field trip may be required. Course is intended for non-art majors. No previous art background is required. (6 lab hours)

ART 1151

Two-Dimensional Foundations Studio

3 credit hours

Studio course exploring the principles and elements of two-dimensional art and design. Development of visual awareness, critical thinking and problem-solving abilities through practical application. (6 lab hours)

ART 1152

Three-Dimensional Foundations Studio

3 credit hours

An introduction to the design and construction of threedimensional objects and environments, including an exploration of the principles and elements of threedimensional art and design. Use of tools in projects designed to explore the relationship of form to function, building processes to materials, and transformations of architectural space. Prerequisite: ART 1101 with a grade of "C" or better, or equivalent or concurrent enrollment ART 1101 or consent of instructor (6 lab hours)

ART 1185

Book Arts

2 credit hours

Introduction to the theory, history and processes in book making. Traditional and non-traditional formats will be explored with emphasis on the relationship between form and content. (4 lab hours)

ART 1823

Selected Topics in Art

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. Prerequisite: Will vary with topic (6 lab hours)

ART 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

ART 2201

Life Drawing I

3 credit hours

Introduction to drawing the figure from observation. Emphasizes accurate portrayal of the undraped figure. Various drawing materials will be used to investigate anatomical study and pictorial composition. Prerequisite: Art 1101 with a grade of "C" or better, or equivalent, or consent of instructor (6 lab hours)

ART 2202

Life Drawing II

3 credit hours

Continued exploration of life drawing concepts, materials and processes concentrating on the undraped figure. Emphasis will be placed upon accurate anatomical proportions and portrayal of sculptural solidity. Individual expression and use of visual metaphors will be developed. Prerequisite: Art 2201 or consent of instructor (6 lab hours)

ART 2211 (IAI F2 901)

Art History I: To 1300

3 credit hours

Chronological survey of Western visual culture from the remote past through the High Gothic. Examines major examples of painting, sculpture, architecture and the decorative arts within their historical, social, political, cosmological and aesthetic contexts. Field trip may be required. (3 lecture hours)

ART 2212 (IAI F2 902)

Art History II: 1300 to 1750

3 credit hours

Chronological survey of Western visual culture from the Proto-Renaissance through the Late Baroque. Examines major artists and regional styles within their historical, social, political, cosmological and aesthetic contexts. Field trip may be required. (3 lecture hours)

ART 2213 (IAI F2 902)

Art History III: 1750 to Present

3 credit hours

Chronological survey of Western visual culture from the Rococo period through the transnational Postmodern era. Examines major artists, art styles and aesthetic theories within their historical, social, political and aesthetic contexts. Field trip may be required. (3 lecture hours)

ART 2214 (IAI F2 903N)

Introduction to Non-Western Art

3 credit hours

Overview of the contexts and aesthetics of the indigenous visual cultures of Africa, Asia, Australia, Oceania and the Americas. Selections include painting, sculpture, architecture, ceramics and fiber arts from the remote past to the present. Field trip may be required. (3 lecture hours)

ART 2221

Painting I

3 credit hours

Introduction to painting methods using various materials such as acrylic, watercolor or oil paint. Emphasis in paintings on technique and originality of content, and development of personal style. An understanding of art history as a studio tool is also emphasized. No prerequisites, but prior experience in drawing (Art 1101) and design (Art 1151 or 1152) is recommended. (6 lab hours)

ART 2222

Painting II

3 credit hours

Further development of painting skills and personal style with emphasis on individual expression. Art 2221 highly recommended. Prerequisite: Consent of instructor (6 lab hours)

ART 2231

Sculpture I

3 credit hours

Introduction to basic sculptural materials, tools, equipment, processes and concepts associated with wood and plaster sculpture. Basic three-dimensional design principles are addressed throughout the course. An informed context is provided by the study of the work of current and historic sculptors. Studio safety is considered at all times. Prerequisite: Art 1101 with a grade of "C" or better or equivalent, or concurrent enrollment in Art 1101(6 lab hours)

ART 2232

Sculpture II

3 credit hours

Introduction to basic sculptural materials, tools, equipment, processes and concepts associated with steel sculpture. Large-scale installation or site-specific sculpture will be investigated in group activities. An informed context will be provided by the study of the work of current and historic sculptors. Studio safety will be considered at all times. Prerequisites: Art 1101 and Art 2231 with a grade of "C" or better or equivalent (6 lab hours)

ART 2241

Ceramics I

3 credit hours

An introductory studio consisting of conceptual and technical processes in ceramics. Exploration of functional design and sculpture utilizing basic clay construction methods, surface treatment and kiln loading. Prerequisite: Art 1101 with a grade of "C" or better or equivalent, or concurrent enrollment in Art 1101 (6 lab hours)

ART 2242

Ceramics II

3 credit hours

Continued exploration of sculptural and functional ceramics. Investigation of the entire process, from idea development through presentation of finished form, including clay forming, surface treatment and kiln firing. Prerequisites: Art 2241 and Art 1101 with a grade of "C" or better or equivalent (6 lab hours)

ART 2251

Jewelry/Metalsmithing I

3 credit hours

A studio introduction to basic jewelry and metalsmithing processes, materials, tools and equipment. Basic techniques such as sawing, soldering and cold connecting sheet metal (silver, copper, brass) are introduced. Craftsmanship, health work habits and studio safety are emphasized. Historical and contemporary aesthetics and concepts in art metals and jewelry design are examined. Art 1101 and 1152 are highly recommended (6 lab hours)

ART 2252

Jewelry/Metalsmithing II

3 credit hours

Continued exploration of jewelry/metalsmithing processes. materials, tools, and equipment. Techniques introduced include stone setting, lost wax casting, enameling and etching. Focus on proficiency in the selection, use and manipulation of materials as well as a mastery of the processes involved. Contemporary trends in jewelry/metalsmithing are examined. Craftsmanship, healthy work habits and studio safety will be emphasized. Prerequisite: Art 2251 or consent of instructor (6 lab hours)

ART 2266

Computer Art I

3 credit hours

An introduction to the use of computer hardware and twodimensional software in the creation of unique works of visual art from a fine arts perspective. Topics will include the creation and manipulation of direct-drawn, formulagenerated and photographic images. Techniques will include the use of a stylus, a scanner and a printer for use in bitmap and vector-based software. This is not a graphic design computer course. It is recommended that students seeking an A.A. or A.F.A degree complete or be currently enrolled in Art 1102, 1151, 1153, 2201, 2211, 2212 and 2213. Recommend Art 1101 and 1151 or consent of instructor (6 lab hours)

ART 2267

Computer Art II

3 credit hours

An introduction to the use of three-dimensional software using one or more modeling, animation and editing software packages. Topics will include organic and geometric modeling, surface rendering, animation, CNC, and video production in the creation of film, installation and sculptural art forms. It is recommended that students seeking an A.A. or A.F.A. degree complete or be currently enrolled in Art 1102, 1151, 1153, 2201, 2211, 2212 and 2213. Recommended: Art 1152, 2231, 224, or 2251. Prerequisite: Art 2266 or consent of instructor (6 lab hours)

ART 2275

Intaglio Printmaking

3 credit hours

An introduction to the intaglio printmaking processes. Topics include etching, engraving, drypoint, aquatinting and photo-etching in creating editions of fine art prints. Emphasis is placed upon mastery and the creative use of these printmaking techniques. It is recommended that

students seeking an A.A. or A.F.A. degree complete or be currently enrolled in Art 1102, 1151, 1153, 2201, 2211, 2212 and 2213. Recommended: Art 1151. Prerequisite: Art 1101 or consent of instructor (6 lab hours)

ART 2276

Lithography

3 credit hours

An introduction to the lithographic printmaking process. Topics include the use of crayon, tusche, photocopy and drawing transfers, and multiple-plate printing in creating editions of lithographic prints from both metal plate and stone. Emphasis is placed upon mastery and the creative use of these printmaking techniques. It is recommended that students seeking an A.A. or A.F.A. degree complete or be currently enrolled in Art 1102, 1151, 1153, 2201, 2211, 2212 and 2213. Recommended: Art 1151. Prerequisite: Art 1101 or consent of instructor (6 lab hours)

AUTOMOTIVE SERVICE TECHNOLOGY

AUTOMOTIVE SERVICE TECHNOLOGY 1110 Engine Design and Operation

4 credit hours

Design, operation and troubleshooting procedures of the gasoline engine. Includes disassembly, identification and inspection of parts, use of service manuals, safety and shop procedures. (3 lecture hours, 2 lab hours)

AUTOMOTIVE SERVICE TECHNOLOGY 1120 Manual Drive Train and Axles

4 credit hours

Inspection, construction, nomenclature, diagnosis, disassembly and assembly of manual drive train components, including clutch, manual transmission, driveshaft, universal joint, constant velocity joint, final drive, manual transaxle, transfer case and locking hub assemblies. (3 lecture hours, 2 lab hours)

AUTOMOTIVE SERVICE TECHNOLOGY 1131 Automotive Basic Electricity

4 credit hours

Automotive circuit construction emphasizing meter usage. Analog and digital meters and oscilloscopes are stressed. Practical approach to reading wiring diagrams, service manuals and manufacturers' repair procedures, including diagnosis of selected vehicle accessory circuits. (3 lecture hours, 2 lab hours)

AUTOMOTIVE SERVICE TECHNOLOGY 1140 Suspension, Steering and Alignment

4 credit hours

Front and rear suspension systems for front-wheel drive and rear-wheel drive vehicles. Steering systems, including rack and pinion, are diagnosed and repaired. Wheels and tires and their effect on handling and ride. Wheel alignment angles are measured and adjusted. (3 lecture hours, 2 lab hours)

AUTOMOTIVE SERVICE TECHNOLOGY 1232 Automotive Engine Electricity

4 credit hours

Starting and charging systems, including starting and charging components. System testing for both no-start

and preventive maintenance conditions and charging system construction and on-car testing. Construction, operation, function and testing of ignition systems of current vehicles, including electronic ignition, distributorless ignition and oscilloscope testing. Prerequisite: Automotive Service Technology 1131 with a grade of "C" or better, or equivalent, or consent of instructor (3 lecture hours, 2 lab hours)

AUTOMOTIVE SERVICE TECHNOLOGY 1240 Braking Systems

4 credit hours

Automotive braking systems, including rotor and drum machining, caliper and wheel cylinder rebuilding, wheelbearing service, brake pad and shoe replacement, and diagnosis and service of anti-lock systems. Prerequisite: Automotive Service Technology 1131 with a grade of "C" or better, or equivalent, or consent of instructor (3 lecture hours, 2 lab hours)

AUTOMOTIVE SERVICE TECHNOLOGY 1250 Automotive Air Conditioning and Heating

4 credit hours

The servicing of automotive air conditioning and heating systems, including refrigerant recovery and recycling, compressor clutch and seal repair, performance testing, and system diagnosis and repair. Prerequisite: Automotive Service Technology 1131 with a grade of "C" or better, or equivalent, or consent of instructor (3 lecture hours, 2 lab hours)

AUTOMOTIVE SERVICE TECHNOLOGY 1261 Engine Controls and Emissions I

4 credit hours

General Motors engine computer controls, including inspection, testing and diagnosis of sensors, fuel injectors, emission controls and fuel delivery by using scan tools, electrical meters, and exhaust gas infrared analyzers. Prerequisite: Automotive Service Technology 1131 with a grade of "C" or better, or equivalent, or consent of instructor (3 lecture hours, 2 lab hours)

AUTOMOTIVE SERVICE TECHNOLOGY 1840 Independent Study – Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

AUTOMOTIVE SERVICE TECHNOLOGY 2120 Automatic Transmission

4 credit hours

Inspection, construction, nomenclature, diagnosis, disassembly and assembly of automatic transmissions and automatic transaxles, including fundamental operation and construction, inspection and rebuilding of apply devices, planetary gear sets, oil pumps, valve bodies and one-way clutches. (3 lecture hours, 2 lab hours)

AUTOMOTIVE SERVICE TECHNOLOGY 2162 Engine Controls and Emissions II

4 credit hours

Computerized engine control systems common to Ford and Daimler Chrysler vehicles. Testing of sensors, components, systems, circuits, on-board diagnosing, scan-tool use and fuel injectors. Prerequisites: Automotive Service Technology 1131, 1232 and 1261 with a grade of "C" or better, or equivalent, or consent of instructor (3 lecture hours, 2 lab hours)

AUTOMOTIVE SERVICE TECHNOLOGY 2180 Automotive Service

6 credit hours

Trade experience for the advanced automotive student. Prerequisites: Automotive Service Technology 1110, 1120, 1140, 1232, 1240, 1250, 1261 and 2120, or equivalent, or consent of instructor (1 lecture hour, 10 lab hours)

AUTOMOTIVE SERVICE TECHNOLOGY 2333 Automotive Body Electricity

4 credit hours

Selected automotive electrical accessories are emphasized. Diagnose and repair causes of poor, intermittent and/or no operation of accessories, such as windshield wipers and washers, power windows, power seats, power mirrors, power antennas, cruise controls, window de-icers, automatic headlights and power door locks. Prerequisites: Automotive Service Technology 1131, 1232 and 1261 with a grade of "C" or better, or equivalent, or consent of instructor (3 lecture hours, 2 lab hours)

AUTOMOTIVE SERVICE TECHNOLOGY 2345 **Automotive Hybrid Technology**

1 credit hour

An overview of hybrid vehicles. Terminology, safety requirements, theory of operation and modification to other automotive systems are reviewed. Also examined is the impact of hybrid technology on the automotive industry. (1 lecture hour)

AUTOMOTIVE SERVICE TECHNOLOGY 2363 Engine Controls and Emissions III

4 credit hours

Emissions regulations, engine management systems and sub-systems, and emission control devices used on automobile engines. Includes on-car testing, analysis and diagnosis of vehicle components with an emphasis on using a labscope, scan tool and exhaust infrared analyzer. Prerequisites: Automotive Service Technology 1110, 1131, 1232, 1261 and 2162 with a grade of "C" or better, or equivalent, or ASE Certifications A6 and A8, or consent of instructor (3 lecture hours, 2 lab hours)

AUTOMOTIVE SERVICE TECHNOLOGY 2370 A.S.E. Certification Analysis and Technology Update 2 credit hours

An integrative course teaching a higher level of skills to combine previous courses and introduce updates in technology to prepare for the National Institute for Automotive Service Excellence (ASE) certification exams. (2 lecture hours)

AUTOMOTIVE SERVICE TECHNOLOGY 2840 Experimental/Pilot Class

1 to 6 credit hours

Exploration and analysis of topics within the discipline. This course is used to pilot a proposal for a permanent discipline course. May be taken three times for credit as long as different topics are selected. (6 lecture hours, 12 lab hours)

For additional information, call Mike Foss, program coordinator, at (630) 942-2138 or (630) 942-2405, George Generke, (630) 942-2521, Michael Malczewski, (630) 942-2857, Tom Robertson, (630) 942-2439, or call the Business and Technology division at (630) 942-2592.

BIOLOGY

Also see courses under Anatomy and Physiology, Botany, Microbiology and Zoology.

BIOLOGY 0470

Biology Study Skills

1 credit hour

Designed for students who need basic knowledge, improvement or practice in study skills for biology. This course includes basic study techniques, techniques specific for biology terminology, text and lecture notes, problem solving, laboratory skills, test-taking techniques and biology resources. This course is especially appropriate for students in Biology 1100 and 1151, or those who have little or no experience in biology. (1 lecture hour)

BIOLOGY 1100 (IAI L1 900L)

Survey of Biology

4 credit hours

This biology course promotes scientific literacy for nonscience majors and interested students. Organisms are studied from their behavioral, ecological, hereditary and evolutionary perspectives. An inquiry-based approach to understanding biological processes is emphasized. Students explore the relevance of biology to contemporary issues in human society. Prerequisite: Mathematics 0481 with a "C" or better, or a qualifying score on the Math Placement Test (3 lecture hours, 2 lab hours)

BIOLOGY 1110 (IAI L1 905L)

Environmental Biology

4 credit hours

An interdisciplinary study of the environment investigating how nature works and how things are interconnected. Based on an understanding of ecological concepts and principles, students examine lifestyle issues and critically analyze the relationship among population, natural resources, land use, agriculture, biodiversity, industrialization and pollution. Environmental problems are examined from scientific, ethical, economic and sociological perspectives to enable students to understand the relevance of biology to contemporary issues in human society. (3 lecture hours, 2 lab hours)

BIOLOGY 1120 (IAI L1 906)

Introduction to Genetics

3 credit hours

This course provides an introduction to the principles of genetics emphasizing the significance of genetics to human culture, including classical transmission genetics, molecular genetics and biotechnology, and the genetics of populations. (3 lecture hours)

BIOLOGY 1130

Fundamentals of Biotechnology

4 credit hours

Application of living organisms and their products in industry, medicine, agriculture, forensics and environmental science. This multidisciplinary course introduces fundamental principles of biology and chemistry that are used to develop biotechnology and surveys various fields of biotechnology. Topics include biochemistry, recombinant DNA, bioinformatics, medical biotechnology and bioremediation. Laboratory includes techniques that are routinely used in biotechnology such as chromatography, electrophoresis and genetic transformation of cells. This course is intended for both science majors and non-science majors. (3 lecture hours, 3 lab hours)

BIOLOGY 1140

Introduction to Biology of Aging

3 credit hours

Study of aging in humans and other species. Topics include theories of aging, aging research, age-related changes at the molecular, cellular, systemic and organismal levels, and normal aging and its relationship to human disease. (3 lecture hours)

BIOLOGY 1151 (IAI L1 900L)

Principles of Biological Science

5 credit hours

An introduction to biology for biological science majors and interested students. Major topics include the philosophy of science, scientific method, chemical organization of life, cell biology, energy dynamics, genetics, molecular genetics, molecular, evolution and biodiversity. Prerequisite: Mathematics 0481 with a grade of "C" or better or qualifying score on Math Placement Test (4 lecture hours, 3 lab hours)

BIOLOGY 1152

Principles of Biological Science

5 credit hours

Continuation of Biology 1151. An introduction to higher levels of biological organization from the organism to the ecosystem. Topics include organismal structure and physiology, behavior, population ecology, community ecology, ecosystem ecology and environmental biology. Prerequisite: Biology 1151 with a grade of "C" or better (4 lecture hours, 3 lab hours)

BIOLOGY 1800

Experiential Special Topics

1 to 3 credit hours

Experiential courses in biology cover topics not otherwise covered by general education courses and other courses in the *Catalog* for the biology discipline. These courses require direct experience and focused reflection in an indepth study of a specific biology topic and/or the critical

analysis of contemporary issues in biology. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent. This experiential component may include field studies, interdisciplinary learning, and/or the practical application of biology concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.) May be taken up to three times for credit as long as a different topic is selected each time.

BIOLOGY 1820

Selected Topics I

3 credit hours

Introductory exploration and analysis of selected topics in biology with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (3 lecture hours)

BIOLOGY 1821

Selected Topics II

3 credit hours

Introductory exploration and analysis of selected topics in biology with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (2 lecture hours, 2 lab hours)

BIOLOGY 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within biology to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

BIOLOGY 2150

Ecology

4 credit hours

Introduction to the field of ecology. Ecological principles and concepts pertaining to ecosystems, communities and populations are examined. Emphasis is given to experimentation in the field. Prerequisites: Biology 1151 and 1152 (2 lecture hours, 4 lab hours)

BIOLOGY 2151

Cell Biology

4 credit hours

Advanced examination of the morphology and physiology of eukaryotic and prokaryotic cells. Coverage includes organelle structure and function, cell membranes, the cytoskeleton, extracellular matrices, enzymes, bioenergetics, cell division, gene expression, cell movement and cell communication. Course is intended for the biological science major and has a lab component. Prerequisites: Biology 1152 and Chemistry 1552 with a grade of "C" or better, or equivalent (3 lecture hours, 2 lab hours)

BIOLOGY 2800

Advanced Experiential Special Topics

1 to 3 credit hours

Advanced experiential courses in biology cover topics not otherwise covered by general education courses and other courses in the Catalog for the biology discipline. These courses require direct experience and focused reflection in an in-depth study of a specific biology topic and/or the critical analysis of contemporary issues in biology. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent. This experiential component may include field studies, interdisciplinary learning and/or the practical application of biology concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.) Prerequisite: At least one course in biology or consent of instructor.

For additional information regarding Biology, call Barbara Anderson, (630) 942-2347, or Chris Petersen, (630) 942-2517.

BOTANY

BOTANY 1310 (IAI L1 901L)

Ethnobotany

4 credit hours

This course is designed to introduce students to the origins of many of the plants and plant products that are an important part of everyday life, and the ways that the development of different cultures has been influenced by plants throughout history. Topics covered include basic plant morphology, plant reproduction, origins of major agricultural crops, economically important plant products, and medicinal and poisonous plants. Designed for non-science majors and interested students. (3 lecture hours, 2 lab hours)

BOTANY 1320

Prairie Ecology

4 credit hours

The organisms, environments and ecological processes of the tallgrass prairie ecosystem are examined through lecture, discussion and field studies. Identification of prairie plants, with an emphasis on species in northern Illinois, is included. Students participate in College of DuPage's prairie reconstructions. Field trips and activities are required. Biology 1100 or Biology 1151 is recommended (2 lecture hours, 4 lab hours)

BOTANY 1800

Experiential Special Topics

1 to 3 credit hours

Experiential courses in botany cover topics not otherwise covered by general education courses and other courses in the *Catalog* for the botany discipline. These courses require direct experience and focused reflection in an indepth study of a specific botany topic and/or the critical analysis of contemporary issues in botany. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course

delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent. This experiential component may include field studies, interdisciplinary learning and/or the practical application of botany concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.) May be taken three times for credit as long as different titles are selected. (1 to 3 lecture hours, 1 to 3 lab hours)

BOTANY 1820

Selected Topics I

3 credit hours

Introductory exploration and analysis of selected topics in botany with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (3 lecture hours)

BOTANY 1821

Selected Topics II

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (2 lecture hours, 2 lab hours)

BOTANY 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within botany to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

BOTANY 2350

Introduction to Botany

4 credit hours

Introduction to botany, including classification, morphology, anatomy, physiology and diversity. Includes lab and field experiences. Prerequisite: Biology 1151 (2 lecture hours, 6 lab hours)

BOTANY 2360

Local Flora

3 credit hours

Explores the ecology and distribution of vascular plants from selected study areas. Includes the basic principles and methods of plant taxonomy: identification, classification, herbarium techniques. Study areas in addition to the College of DuPage campus will be indicated in the current *Class Schedule*. Costs vary. Prerequisite: Biology 1152 or Botany 2350 or equivalent (1 lecture hour, 4 lab hours)

BOTANY 2800

Advanced Experiential Special Topics

1 to 3 credit hours

Advanced experiential courses in botany cover topics not otherwise covered by general education course and other

courses in the Catalog for the botany discipline, while building upon academic knowledge and skills acquired in introductory-level botany classes. These courses require direct experience and focus reflection in an in-depth study of a specific botany topic and/or the critical analysis of contemporary issues in botany. They are targeted to selfselected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent. This experiential component may include field studies, interdisciplinary learning and/or the practical application of more complex botany concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.) Prerequisite: At least one course in botany or consent of the instructor (1 to 3 lecture hours, 1 to 3 lab hours)

For additional information regarding Botany, call Lynn Fancher, (630) 942-2127, or Lynda Randa, (630) 942-2706.

BUSINESS

Also see courses listed under Accounting, Management and Marketing.

BUSINESS 1100

Introduction to Business

3 credit hours

Introduction to the environment and functions of business. Organization and operation of business, the relationships of business to society, and the dominant field and types of business are surveyed. Functions studied include marketing, finance, production, management, retailing, wholesaling, advertising, risk, pricing, personnel and business environment. (3 lecture hours)

BUSINESS 1111

Customer Service

3 credit hours

Interacting with customers and responding to customer concerns in-person, on the telephone and electronically. Customer service throughout the organization and as a system for meeting customer expectations. Verbal and nonverbal communications as they relate to customer service. Methods for responding to different types of customers. (3 lecture hours)

BUSINESS 1120

Fundamentals of Personal Investing

3 credit hours

Explores various investment vehicles utilized by the personal investor, including stocks, bonds, real estate, mutual funds and insurance. Investment vehicle descriptions, values and economic implications are surveyed. Application of investment theory and risk analysis associated with investment decisions as it relates to building a hypothetical personal investment portfolio. (3 lecture hours)

BUSINESS 1161

Entrepreneurship

3 credit hours

Exploration of the start-up of small businesses and franchises. Essential business ownership primarily focusing on the marketing aspects of entrepreneurship. Product ideas, product development, patents, copyright and trademarks. Introduction to start-up financing and business planning. (3 lecture hours)

BUSINESS 1170

Electronic Business/Commerce

3 credit hours

Overview of 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 versus available resources, e-management, Customer Relationship Management (CRM), ordering systems, endto-end marketing, and performance and control systems. (3 lecture hours)

BUSINESS 1840

Independent Study - Individualized

1 to 3 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 3 lecture hours)

BUSINESS 2200

Business Budgeting

3 credit hours

A hands-on study in the preparation and analysis of reports in the budgeting system. Includes detailed budgets for various departments; budgeted income statements and balance sheets with supporting schedules will be prepared. Special emphasis on the financial manager's role in budgeting as well as the relationship of the budgeting process with the long-term corporate goals and objectives. Completion of Business 1100 recommended prior to enrollment. Prerequisite: Accounting 1110 or 1140, or equivalent, or consent of instructor (3 lecture hours)

BUSINESS 2210

Principles of Finance

3 credit hours

The theoretical and conceptual framework used by financial managers to reach decisions in a dynamic economy, including problems related to sources of capital and financial analysis. Emphasis is placed on financial statement analysis, time value of money, cash flow management, risk and return, and sources financing. Completion of Business 1100 recommended prior to enrollment. Prerequisite: Accounting 1110 or 1140, or equivalent, or consent of instructor (3 lecture hours)

BUSINESS 2255

International Business

3 credit hours

Theoretical and descriptive exploration of the interdependent world of international business. Explores

globalization trends, international trade theories, regulations affecting trade, regional economic integration, and the impact these factors have on developing nations. Examines how company functions such as marketing, finance and management operate in the international setting. Special emphasis is placed on strategy development and the role of culture. Completion of Business 1100 or equivalent is recommended prior to enrollment. (3 lecture hours)

BUSINESS 2260

International Finance

3 credit hours

Study the international financial environment from the standpoint of financial managers. Emphasis is placed on explanations of exchange rate behavior, capital movements and financing international trade. Completion of Business 1100 or equivalent is recommended prior to enrollment. (3 lecture hours)

For additional information, call Mike Drafke, program coordinator, at (630) 942-2075, or call the Business and Technology division at (630) 942-2592.

BUSINESS LAW

BUSINESS LAW 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

BUSINESS LAW 2205

Legal Environment of Business

3 credit hours

Traces the history and development of the judicial system and the social and legal environment of business. Principles of business legal ethics and corporate social responsibilities, government regulation of business, securities law, consumer protection law, labor law, employment law and environmental law are discussed and analyzed through use of cases and problems. Emphasis will be placed upon the legal dimension of ethical issues in the world of business. (3 lecture hours)

BUSINESS LAW 2211

Business Law I

3 credit hours

Introduction to our Anglo-American system of law, tracing its sources and history. Introduction to the legal system as it affects business activity. Principles of the law of contracts, agency relationships, commercial paper and sales are discussed and analyzed through the use of the Uniform Commercial Code, cases and problems. Emphasis is upon the law and business relationships. (3 lecture hours)

BUSINESS LAW 2212

Business Law II

3 credit hours

Principles of the law of agency, partnerships, corporations, wills, trusts, accounting law and liability bankruptcy, and real property are discussed and analyzed through the use of the Model Corporation Act, the Illinois Business Corporation Act, cases and problems. Emphasis is placed on the Uniform Commercial Code, including negotiable instruments, holder in due course, credit and secured transactions. Prerequisite: Business Law 2211 (3 lecture hours)

For additional information, call Bill Carmody, program coordinator, at (630) 942-3358, or call the Business and Technology division at (630) 942-2592.

CHEMISTRY

CHEMISTRY 0485

Basic Laboratory and Computation Chemistry

2 credit hours

A study of the metric system, dimensional analysis, density, physical and chemical properties of matter, formulae, gas laws, stoichiometry, and acids and bases. Examination of the rules for presentation of graphical and calculated formats of laboratory measurements. (1 lecture hour, 2 lab hours)

CHEMISTRY 1105 (IAI P1 903L) Contemporary Chemistry

4 credit hours

Introduction to chemical concepts using practical issues and applications to illustrate the principles of chemistry. The language of chemistry, scientific method and measurement, experimentation with data collection, and current issues with application to chemical principles. One year of high school algebra is recommended (3 lecture hours, 3 lab hours)

CHEMISTRY 1137

Concepts and Applications in Nanoscience

4 credit hours

Interdisciplinary course combining elements of chemistry, physics and electronics; takes a non-mathematical approach to examine the fundamental scientific principles behind the new field of nanotechnology. The course is intended for non-science majors. The important future role of nanotechnology in society is discussed, using applications in the consumer world and industry involving materials and electronics. The course provides experience from theoretical, laboratory and laboratory simulation perspectives. (3 lecture hours, 3 lab hours)

CHEMISTRY 1211 (IAI P1 902L)

General Chemistry

5 credit hours

Fundamental concepts of general inorganic chemistry, including formula naming, atomic structure, stoichiometry, gas laws, solutions, equilibria, redox, acid-base theory and nuclear chemistry. Intended for health science majors. Not intended for science or engineering majors. Prerequisite: Mathematics 0481 with a grade of "C" or better, or a qualifying score on the Math Placement Test (4 lecture hours, 3 lab hours)

CHEMISTRY 1212

Survey of Organic Chemistry

5 credit hours

Introduction to organic chemistry. Nomenclature, structure, physical properties, reactions and synthesis of major organic functional groups. Intended for health science majors. Prerequisite: Chemistry 1211 or 1551 (4 lecture hours, 3 lab hours)

CHEMISTRY 1551 (IAI P1 902L)

Principles of Chemistry I

5 credit hours

Measurement, the mole concept, composition and reaction stoichiometry, types of reactions, thermochemistry, atomic theories, chemical periodicity, bonding, molecular geometry, and properties and theories of the gaseous, liquid and solid states. Intended for science and engineering students. Prerequisites: Mathematics 1428 or 1431 with a grade of "C" or better, or qualifying score on the Math Placement Exam, and one year high school chemistry with a passing grade or Chemistry 0485 with a grade of "C" or better or Chemistry 1211 with a grade of "C" or better or one semester of a college chemistry course with a lab component with a grade of "C" or better (4 lecture hours, 3 lab hours)

CHEMISTRY 1552

Principles of Chemistry II

5 credit hours

Properties of solutions, chemical kinetics, equilibrium, acid-base theory and equilibria, solubility equilibria, electrochemistry, thermodynamics, coordination chemistry and nuclear chemistry. Laboratory includes both qualitative and quantitative analysis. Prerequisite: Chemistry 1551 with a grade of "C" or better (4 lecture hours, 3 lab hours)

CHEMISTRY 1800

Experiential Special Topics

1 to 3 credit hours

Experiential courses in chemistry cover topics not otherwise covered by general education courses and other courses in the Catalog for the chemistry discipline while building upon academic knowledge and skills acquired in introductory-level chemistry classes. These courses require direct experience and focused reflection in an indepth study of a specific chemistry topic and/or the critical analysis of contemporary issues in chemistry. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent. This experiential component may include field studies. interdisciplinary learning and/or the practical application of chemistry concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.) (1 to 3 lecture hours)

CHEMISTRY 1820

Selected Topics I

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college

Class Schedule. May be taken three times for credit as long as different topics are selected. (3 lecture hours)

CHEMISTRY 1821

Selected Topics II

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (2 lecture hours, 2 lab hours)

CHEMISTRY 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

CHEMISTRY 2213

Introduction to Biochemistry

4 credit hours

Introduction of biochemical topics of carbohydrates, lipids, proteins, nucleic acids and their subsequent metabolism. Prerequisite: Chemistry 1212 or 2551 (3 lecture hours, 3 lab hours)

CHEMISTRY 2551

Organic Chemistry I

5 credit hours

Bonding principles, functional groups, isomerism, stereochemistry, nomenclature, synthesis and reactions of alkanes, cycloalkanes, alkenes, alkynes, alcohols and alkyl halides. Addition, elimination, rearrangement and substitution mechanisms. Laboratory stresses, microscale techniques, basic separations, purifications, syntheses, and infrared and nuclear magnetic resonance spectroscopy. For chemistry majors, pre-professional students and biology majors. Prerequisite: Chemistry 1552 with a grade of "C" or better or equivalent (3 lecture hours, 6 lab hours)

CHEMISTRY 2552

Organic Chemistry II

5 credit hours

Continuation of Chemistry 2551. Nomenclature, properties, reactions and synthesis of conjugated dienes, aromatics, organometallics, alcohols, phenols, ethers, aldehydes and ketones, carboxylic acids and derivatives, and amines. Mechanisms include electrophilic aromatic substitution and nucleophilic addition. Carbohydrates, amino acids, proteins and nucleic acids. Laboratory stresses single and multi-step syntheses along with mass spectrometry, ultraviolet, and carbon-13 nuclear magnetic resonance spectroscopy and integrated spectral analysis. For chemistry majors, pre-professional students and biology majors. Prerequisite: Chemistry 2551 with a grade of "C" or better or equivalent (3 lecture hours, 6 lab hours)

CHEMISTRY 2800

Advanced Experiential Special Topics

1 to 3 credit hours

Advanced courses in chemistry cover topics not general education courses and other courses in the Catalog for the chemistry discipline. These courses require direct experience and focused reflection in an in-depth study of a specific chemistry topic and/or the critical analysis of contemporary issue in chemistry. They are targeted to selfselected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experimental component of no less than 30 percent but not to exceed 70 percent. This experiential component may include field studies, interdisciplinary learning and/or the practical application of chemistry concepts, theories, principle and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.) Prerequisite: At least one course in chemistry or consent of the instructor (1 to 3 lecture hours, 1 to 3 lab hours)

For additional information, call Mary Newberg, (630) 942-4066, or Carolyn Dockus, (630) 942-2420.

CHINESE

CHINESE 1100

Civilization and Culture of China

3 credit hours

This course is a brief introduction to the culture, history, political institutions, social, philosophical and economic development of China from ancient times to the present. (3 lecture hours)

CHINESE 1101

Elementary Chinese I

4 credit hours

Introduction to standard, modern Mandarin Chinese: pronunciation, idiomatic expressions, speech patterns and characters for the beginning student. (4 lecture hours)

CHINESE 1102

Elementary Chinese II

4 credit hours

A continuation of Chinese 1101 with emphasis on listening, speaking, and reading and writing complex sentences. Prerequisite: Chinese 1101 or equivalent or three years of high school Chinese (4 lecture hours)

CHINESE 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

CHINESE 2201

Intermediate Chinese I

4 credit hours

This course is a continuation of Chinese 1102 with emphasis on further accuracy and comprehension in listening, reading, speaking, and writing. More Chinese characters are introduced. Prerequisite: Chinese 1102 or equivalent or four years of high school Chinese (4 lecture hours)

CHINESE 2202 (IAI H1 900)

Intermediate Chinese II

4 credit hours

Continuation of Chinese 2201. More Chinese characters are introduced. Prerequisite: Chinese 2201 or equivalent or five years of high school Chinese (4 lecture hours)

COMMUNICATIONS

COMMUNICATIONS 0414 Spelling I: Regular Patterns

1 credit hour

Basic course that begins with a diagnosis of spelling ability. Students practice using regular spelling patterns, including common spelling rules, compound word formation, prefixes and suffixes, plurals and possessives, contractions and spellings for the schwa sound. Students examine spelling errors caused by mispronunciation and troublesome words that sound alike. Using a multi-sensory approach, students apply learned spelling patterns by proofreading and editing in exercises and in their own writing. Course may be taken four times for credit. (1 lecture hour)

COMMUNICATIONS 0415

Spelling II: Irregular Patterns and Words Often Confused

1 credit hour

Basic course that covers irregular patterns for spelling words. Students practice spelling words that change their basic form, contain silent letters or add letters, and learn commonly misunderstood words and homonyms. Using a multi-sensory approach, students apply spelling patterns by proofreading and editing in exercises and in their own writing. Course may be taken four times for credit. (1 lecture hour)

COMMUNICATIONS 0421

Grammar and Punctuation for Writing Sentences 3 credit hours

Basic course designed to help students recognize sentence parts and differentiate clauses and phrases, as well as improve in grammar, punctuation and sentence structure. Emphasis is placed on identifying and avoiding pitfalls in sentence construction, such as run-on sentences, sentence fragments, subject-verb agreement, tense consistency and pronoun reference. This course will also teach students the skills of sentence combining in order to achieve sentence variety. This course may require visits to the Writing Assistance Area for additional individualized instruction. Course may be taken four times for credit. (3 lecture hours)

COMMUNICATIONS 0423

Mechanics and Usage Review

1 credit hour

Basic course that provides practice in editing sentences for correctness in mechanics and usage: punctuation, particularly to convey sentence meaning; verb forms and tenses, including subject-verb agreement, clear pronoun reference and agreement, forms of adjectives and adverbs, and capitalization of proper nouns and titles. Students practice skills in the context of writing exercises and student's own writing. Course may be taken four times for credit. (1 lecture hour)

COMMUNICATIONS 0431

Writing Effective Sentences

1 credit hour

Basic course in which students learn to write complete and varied sentences that suit a variety of purposes. Students learn parts of speech; understand sentence grammar by recognizing subjects, verbs, clauses and phrases; and learn how to avoid common sentence errors. Emphasis is on writing clear, correct and varied sentences and on how grammar principles relate to effective communication. Course may be taken four times for credit. (1 lecture hour)

COMMUNICATIONS 0433

Diction

1 credit hour

Basic course in style, tone and clarity of expression. Students improve writing by choosing words to avoid clichés, wordiness, informality and confusion. Emphasis is on learning to write clearly, consistently and directly for a variety of writing tasks, especially for academic writing. Course may be taken four times for credit. (1 lecture hour)

COMMUNICATIONS 0441

Paragraph Development

1 credit hour

Basic course with practice in composing well-constructed paragraphs. Students write paragraphs in basic rhetorical forms using skills of effective organization, unity, detail and transition. Emphasis is on understanding paragraph components to write well-developed and coherent paragraphs. Course may be taken four times for credit. (1 lecture hour)

COMMUNICATIONS 0443

Essay Organization

1 credit hour

Basic course in elements of essay organization and development. Students write essays utilizing writing process: invention, collection of supporting information, development of thesis statement, organization of ideas, multiple drafts/revisions and editing. Emphasis is on learning to write and organize essays with specific rhetorical devices, such as description, example and comparison/contrast. Course may be taken four times for credit. (1 lecture hour)

COMMUNICATIONS 0449

Term Paper Supplement

1 credit hour

Basic course reviewing essential skills in writing term papers. Students review skills through reading and practical exercises. Emphasis is on writing term papers using sound research and documentation methods. May

be taken in conjunction with a course that requires a research paper. Course may be taken four times for credit. (1 lecture hour)

COMPUTER AND INTERNETWORKING TECHNOLOGIES

COMPUTER AND INTERNETWORKING TECHNOLOGIES 1100 **PC Maintenance and Upgrading**

2 credit hours

Introduction to maintaining and upgrading personal computers (PCs). System component identification, configuration, assembly and disassembly, upgrading procedures, basic troubleshooting techniques and preventative maintenance are included. (1 lecture hour, 2 lab hours)

COMPUTER AND INTERNETWORKING TECHNOLOGIES 1111 Computer and Hardware Maintenance

3 credit hours

Covers aspects of hardware support relating to personal computers (PCs), including system troubleshooting, system board, drive subsystems, memory, input/output devices and multimedia. Prepares the student for the CompTIA A+ exam. Prerequisite: Computer and Internetworking Technologies 1100 with a grade of "C" or better, or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

COMPUTER AND INTERNETWORKING TECHNOLOGIES 1112 Advanced System Maintenance

3 credit hours

Maintaining and servicing modern personal computer systems, with emphasis on advanced hardware, operating systems, troubleshooting, networks, printers and other peripheral devices. Prepares the student for the CompTIA A+ exam. Prerequisite: Computer and Internetworking Technologies 1100 with a grade of "C" or better, or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

COMPUTER AND INTERNETWORKING TECHNOLOGIES 1121 **Networking Fundamentals**

3 credit hours

Current and emerging internetworking technologies. Including the Open Systems Interconnect (OSI) Reference Model, binary numbers, hexadecimal numbers, address classes, Internet Protocol (IP) addressing and subnetting, protocols, standards, basic electrical concepts and cabling techniques. (2 lecture hours, 2 lab hours)

COMPUTER AND INTERNETWORKING TECHNOLOGIES 1122 Routing Protocols and Concepts

3 credit hours

Practical skills required to verify and troubleshoot basic router and routing protocol configurations. Topics covered include: Variable Length Subnet Mask (VLSM), Classless Inter-Domain Routing (CIDR), static routing, dynamic routing, default routing, Routing Information Protocol (RIP), Enhanced Interior Gateway Routing Protocol (EIGRP), and Open Shortest Path First (OSPF). Prerequisite: Computer and Internetworking Technologies 1121 with a grade of "C" or better, or equivalent (2 lecture hours, 2 lab hours)

COMPUTER AND INTERNETWORKING TECHNOLOGIES 1123 LAN Switching and Wireless

3 credit hours

Practical skills required to configure and verify basic switch and wireless router configuration. Topics include: Local Area Network (LAN) architecture, basic switch concepts and configuration, Virtual Local Area Network (VLAN) design and configuration, Spanning Tree Protocol (STP), VLAN Trunking Protocol (VTP), inter-VLAN routing, basic wireless concepts and configuration. Prerequisite: Computer and Internetworking Technologies 1122 with a grade of "C" or better, or equivalent (2 lecture hours, 2 lab hours)

COMPUTER AND INTERNETWORKING TECHNOLOGIES 1124 Accessing the WAN

3 credit hours

Practical skills required to verify and troubleshoot router and Wide Area Network (WAN). Topics include: WAN design, Point-to-Point Protocol (PPP), Frame Relay, network management, network security, Access Control List (ACL), Virtual Private Network (VPN), Dynamic Host Configuration Protocol (DHCP), Network Address Translation (NAT), and Internet Protocol version 6 (IPv6). Prerequisite: Computer and Internetworking Technologies 1123 (2 lecture hours, 2 lab hours)

COMPUTER AND INTERNETWORKING TECHNOLOGIES 1151 Cisco Wireless Local Network Administration 3 credit hours

Introduction to the design, implementation and maintenance of wireless networks. Topics include 802.11 standards, wireless radio technology, wireless topologies, access points, bridges, wireless security, site surveys, troubleshooting and antenna systems. Prerequisite:

Computer and Internetworking Technologies 1121 with a grade of "C" or better or equivalent or consent of instructor (2 lecture hours, 2 lab hours)

COMPUTER AND INTERNETWORKING TECHNOLOGIES 1170 Fundamentals of Telecommunications

2 credit hours

Introductory course covering voice and data communications technology. A history of the industry as well as future trends, including new and emerging technologies such as cellular and Voice Over Internet Protocol (VOIP). (2 lecture hours)

COMPUTER AND INTERNETWORKING TECHNOLOGIES 1635 Data Communications and Networks

3 credit hours

Principles of microcomputer data communications and network systems. Serial and parallel data communications, basic telephony, Electronic Industry Association (EIA) standards, Local Area Networks (LANs), and Wide Area Networks (WANs) are included. Prepares the student for the CompTIA Network+ exam. Prerequisite: Computer and Internetworking Technologies 1121, or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

COMPUTER AND INTERNETWORKING TECHNOLOGIES 1640 **Security**+

3 credit hours

Information security principles providing participants the tools for implementing and managing security in the enterprise. Covers a broad review of information security,

including the terminology and overview of information security management. After completion of this course students should be prepared to participate in the CompTIA Security+ examination. Prerequisites: Computer and Internetworking Technologies 1121 and 1635 or 2235 with a grade of "C" or better, or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

COMPUTER AND INTERNETWORKING TECHNOLOGIES 1645 Internet Telephony

3 credit hours

Covers aspects of converging voice, data, messaging, and video as well as emerging Voice Over Internet Protocol (VOIP) Technologies. Circuit switched and packet switched networks will be covered as well as related protocols. Prepares the student for the CompTIA Convergence+certification exam. Recommended: Computer and Internetworking Technologies 1640 with a grade of "C" or better, or equivalent Prerequisite: Computer and Internetworking Technologies 1121 with a grade of "C" or better or equivalent (2 lecture hours, 2 lab hours)

COMPUTER AND INTERNETWORKING TECHNOLOGIES 1825 **Selected Topics**

2 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (2 lecture hours)

COMPUTER AND INTERNETWORKING TECHNOLOGIES 1840 Independent Study — Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline, and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

COMPUTER AND INTERNETWORKING TECHNOLOGIES 2241 Cisco Certified Network Professional I

3 credit hours

Basic routing principles, including Variable-Length Subnet Masks (VLSM), Classless InterDomain Routing (CIDR), route summarization, route redistribution and route optimization, multicasting and Internet Protocol version 6 (IPv6). Routing protocols covered include Open Shortest Path First (OSPF), Enhanced Interior Gateway Routing Protocol (EIGRP), Intermediate System to Intermediate System (IS-IS) and Border Gateway Protocol (BGP). Prerequisite: Computer and Internetworking Technologies 1124 with a grade of "C" or better, or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

COMPUTER AND INTERNETWORKING TECHNOLOGIES 2242 Cisco Certified Network Professional II

3 credit hours

Media, devices and protocols to build, configure and troubleshoot a remote access network to interconnect central sites to branch offices and home offices. Includes configuring Digital Subscribe Line (DSL), MultiProtocol Label Switching (MPLS), Virtual Private Network (VPN), Site-to-site VPN, Cisco device hardening and Cisco Intrusion

Detection Systems (IDS) and Intrusion Prevention System (IPS) systems. Prerequisite: Computer Internetworking Technologies 1124 with a grade of "C" or better, or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

COMPUTER AND INTERNETWORKING TECHNOLOGIES 2243 Cisco Certified Network Professional III

3 credit hours

Basic and multi-layer switching configuration. Includes Spanning Tree Protocol (STP), Virtual Local Area Networks (VLAN), VLAN Trunking Protocol (VTP), redundant links, inter-VLAN routing, Hot-Standby Routing Protocol (HSRP), Virtual Router Redundancy Protocol (VRRP), wireless LANs, Voice Over Internet Protocol (VOIP), and security. Prerequisite: Computer and Internetworking Technologies 1124 with a grade of "C" or better, or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

COMPUTER AND INTERNETWORKING TECHNOLOGIES 2244 Cisco Certified Network Professional IV

3 credit hours

Explain the Cisco hierarchical network model as it pertains to an end-to-end enterprise network, describe specific requirements for implementing a Voice Over Internet Protocol (VOIP) network, describe the need to implement Quality of Service (QOS) and the methods for implementing QOS on a converged network, describe and configure wireless security and basic wireless management. Prerequisite: Computer and Internetworking Technologies 1124 with a grade of "C" or better, or equivalent, or consent of Instructor (2 lecture hours, 2 lab hours)

COMPUTER AND INTERNETWORKING TECHNOLOGIES 2251 **CCNA Security**

3 credit hours

Provides the knowledge and hands-on skills required to install, troubleshoot, and monitor Cisco security network devices. Students who complete this course will be prepared to sit for the Cisco Certified Networking Associate (CCNA) Security Certification exam which is a stepping stone for job roles such as network security specialist and network security administrator. CCNA Security certification is a prerequisite for becoming a Cisco Certified Security Professional (CCSP). Prerequisite: Computer and Internetworking Technologies 1124 with a grade of "C" or better, or equivalent or CCNA Certification or consent of instructor (2 lecture hours, 2 lab hours)

COMPUTER AND INTERNETWORKING TECHNOLOGIES 2252 Securing Networks with PIX and Application Security Appliance (SNPA)

3 credit hours

Overall security processes with particular emphasis on hands-on skills for Cisco Private Internet Exchange (PIX) firewall appliance. Includes Cisco security technologies; PIX firewall installation, configuration and maintenance; Authentication, Authorization, Accounting (AAA) implementation; Intrusion Prevention Systems (IPS); Virtual Private Network (VPN) configuration and implementation; and advanced protocol and attack guards. Prerequisite: Computer and Internetworking Technologies 2251 or consent of instructor (2 lecture hours, 2 lab hours)

COMPUTER AND INTERNETWORKING TECHNOLOGIES 2253 Intrusion Prevention Systems (IPS)

3 credit hours

Overall intrusion detection and prevention processes with particular emphasis on hands-on skills for installing and configuring the Cisco IPS 4215 sensor appliance using Command-Line Interface (CLI) and the IPS Device Manager (IDM). Prerequisite: Computer and Internetworking Technologies 2251 with a grade of "C" or better, or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

COMPUTER AND INTERNETWORKING TECHNOLOGIES 2411 Cisco Voice Over IP

3 credit hours

Basic operation and components involved in Voice Over Internet Protocol (VOIP); integrate basic IP telephony network into existing telephony network; configure router to perform basic VOIP call; implementation of dial plan; configuration of gateway and gatekeeper. Prerequisites: Computer and Internetworking Technologies 1124 with a grade of "C" or better or equivalent (2 lecture hours, 2 lab hours)

COMPUTER AND INTERNETWORKING TECHNOLOGIES 2412 Quality of Service

3 credit hours

Prepares students for the Cisco Certified Voice Professional qualifying exam. Topics covered include: Quality of service (QOS), classification and marking, queuing, traffic shaping and policing, congestion avoidance, link efficiency, modular QOS command line interface, and QOS best practices. Prerequisite: Computer and Internetworking Technologies 1124 with a grade of "C" or better or equivalent or consent of instructor (2 lecture hours, 2 lab hours)

COMPUTER AND INTERNETWORKING TECHNOLOGIES 2651 Computer Forensics I

3 credit hours

Focuses on the preservation, identification, extraction, documentation and interpretation of computer data. Topics covered include evidence handling, chain of custody, collection, preservation, identification, and recovery of computer data using forensic recovery software and methods. Prerequisite: Hardware and software training and/or previous work experience and consent of instructor (3 lecture hours)

COMPUTER AND INTERNETWORKING TECHNOLOGIES 2652 Computer Forensics II

3 credit hours

A continuation of Computer Forensics I. Extends the use of analysis software and forensics tools. Focuses on network and open source forensics tools. Prerequisites: Preenrollment or current enrollment in Computer and Internetworking Technologies 2651 and consent of instructor (3 lecture hours)

COMPUTER AND INTERNETWORKING TECHNOLOGIES 2840 Experimental/Pilot Class

1 to 6 credit hours

Exploration and analysis of topics within the discipline. This course is used to pilot a proposal for a permanent discipline course. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (6 lecture hours, 12 lab hours)

For additional information, call Tony Chen at (630) 942-2537 or Clyde Cox at (630) 942-2520, or call the Business and Technology division at (630) 942-2592.

COMPUTER INFORMATION SYSTEMS

COMPUTER INFORMATION SYSTEMS 0800 Learning Computer Basics

3 credit hours

Prepares students for computer-related courses that do not require a prerequisite and develops computer skills for personal or professional growth. Theory and practice are integrated through a combination of instructor-led lessons and mandatory, guided, self-paced practice exercises. Topics include hardware, word processing, math utilized in spreadsheets, presentation software, basic Internet use and e-mail. (3 lecture hours)

COMPUTER INFORMATION SYSTEMS 1110 Using Computers: An Introduction

2 credit hours

Prepares students for the use of the computer as a productivity tool. Fundamentals of how a computer works by understanding hardware and the distinctions between system software and application software. Hands-on projects will use microcomputer applications to teach concepts related to word processing, spreadsheets, databases and presentation graphics. Topics include creation and maintenance of folders and files, networks, and information access using the Internet. (2 lecture hours, 1 lab hour)

COMPUTER INFORMATION SYSTEMS 1120 The Internet

2 credit hours

Introduces the fundamental skills and knowledge needed to master and use the Internet. Provides an understanding of the concepts behind the Internet as a tool as well as hands-on activities using the Internet. Intended for a broad audience. (2 lecture hours)

COMPUTER INFORMATION SYSTEMS 1130 Windows Basics

2 credit hours

Introduction to the Windows operating system and its Graphical User Interface (GUI). Prerequisite: Basic computer mouse skills (2 lecture hours)

COMPUTER INFORMATION SYSTEMS 1150 Introduction to Computer Information Systems 3 credit hours

An overview of the computing field and its typical applications. Covers key terminology and components of computer hardware, software and operating systems. Other topics include systems development methods, management information systems, programming languages, communications, networks, application software, the Internet and career opportunities. Microcomputer applications include word processing, spreadsheet, database and presentation software. (3 lecture hours, 1 lab hour)

COMPUTER INFORMATION SYSTEMS 1160 Windows Command Line (DOS)

2 credit hours

Introduction to microcomputer operating systems. Provides an opportunity to work with the Microsoft Windows operating system command line. Includes the major components of an operating system, command syntax, disk format and management, internal/external commands, file manipulation, directory structure, files and disk maintenance, configuration and batch files, and network connectivity. (2 lecture hours)

COMPUTER INFORMATION SYSTEMS 1180 Introduction to Networking

3 credit hours

Survey course in network management that provides the critical foundation of the theory and design of Local Area Networks (LAN). Includes network topologies, standards and protocols, LANs as nodes in larger networks in microto-mainframe links, the Internet, wireless transmission, client-server, and an overview of security and Network Management and system administration. Prerequisite: Computer Information Systems 1150 or 1160 or consent of instructor (3 lecture hours)

COMPUTER INFORMATION SYSTEMS 1200 Game Design

3 credit hours

Survey of computer game and simulation design. Topics include design elements, user interface, game rules, genres and game media. Prerequisite: Computer Information Systems 1150 or concurrent enrollment or consent of instructor (3 lecture hours)

COMPUTER INFORMATION SYSTEMS 1205 Office Suite Software and Integration

3 credit hours

Introduction to the integrative aspects of business suite software. Concepts related to the creation and editing of word processing, spreadsheet, database and graphics files. Includes the principles of document integration as it relates to suite applications and the integration of suite software to build web pages. Prerequisite: Computer Information Systems 1110 or 1130 or 1150 or consent of instructor (3 lecture hours)

COMPUTER INFORMATION SYSTEMS 1211 Game Development I

3 credit hours

Computer game development, including player controls, sound, music and animation. Two-dimensional games will be created using game editors and development tools. Prerequisites: Computer Information Systems 1200 and 1400 with a grade of "C" or better or consent of instructor. (3 lecture hours)

COMPUTER INFORMATION SYSTEMS 1221 Introduction to Spreadsheets

3 credit hours

Computerized spreadsheets for database (list) operations, statistical analysis and financial analysis. Includes planning and creating spreadsheets. Use of customization and automation features of software. Prerequisite: Computer Information Systems 1110 or 1130 or 1150, or equivalent, or consent of instructor (3 lecture hours)

COMPUTER INFORMATION SYSTEMS 1222 Advanced Spreadsheets

2 credit hours

Advanced features and analytical concepts for an electronic spreadsheet program. Customization, automation features, advanced data analysis and summarization tools are explored. Prerequisite: Computer Information Systems 1221, or equivalent, or consent of instructor (2 lecture hours)

COMPUTER INFORMATION SYSTEMS 1230 Microcomputer Database Application

3 credit hours

Relational database management course using a Windows platform, including database design, database creation, database maintenance, firm creation, report creation, query creation and macros creation. Instruction in application development and programming using a representative microcomputer database management package. Prerequisite: Computer Information Systems 1110 or 1130 or 1150 or consent of instructor (3 lecture hours)

COMPUTER INFORMATION SYSTEMS 1240 Presentation Graphics – Windows Based

2 credit hours

Introduction to the design and use of presentation graphics for microcomputers in a Windows-based environment. Includes basics of visual design, numeric charts, text charts, diagrams, organization charts, screenshow presentations and other advanced topics. Prerequisite: Computer Information Systems 1110 or 1130 or 1150 or consent of instructor (2 lecture hours)

COMPUTER INFORMATION SYSTEMS 1285 *Microcomputer Accounting*

2 credit hours

An introduction to accounting using a software package on a microcomputer. Prerequisites: Computer Information Systems 1150 and Accounting 1110 or 1140 or consent of instructor (2 lecture hours)

COMPUTER INFORMATION SYSTEMS 1290 Visual Basic for Applications in MSOffice

4 credit hours

Visual Basic for Applications uses Microsoft Office Suite to design, develop and customize solutions using graphical user interfaces and object-oriented programming. Build customized solutions using Microsoft Visual Basic automation and extending their application functionality. Prerequisite: Computer Information Systems 1205 or 1510 with a grade of "C" or better or consent of instructor (4 lecture hours)

COMPUTER INFORMATION SYSTEMS 1300 *Web Design Software*

3 credit hours

Creation of web sites using web design software such as DreamWeaver or FrontPage. Topics include Web site design, styles, graphics, tables, frames, forms and layers. Prerequisite: Computer Information Systems 1150 or Computer Information Systems 1120 and 1130 or consent of instructor (3 lecture hours)

COMPUTER INFORMATION SYSTEMS 1310 HTML and CSS

3 credit hours

Creation of effective web pages using Hyper Text Markup Language (HTML) and Cascading Style Sheets (CSS). Includes web page and web site design concepts and preparation of graphics for the Web, with the primary focus on implementation of the design. Prerequisites: Computer Information Systems 1120 and either Computer Information Systems 1130 or 1150 or consent of instructor (3 lecture hours)

COMPUTER INFORMATION SYSTEMS 1315 Web Development for Educators

3 credit hours

Creation of an educational web site used within an academic environment using web design software, Hyper Text Markup Language (HTML) and Cascading Style Sheets (CSS). Prerequisite: Computer Information Systems 1110 or 1150 with a grade of "C" or better or consent of instructor (3 lecture hours)

COMPUTER INFORMATION SYSTEMS 1400 **Programming Logic and Technique**

4 credit hours

An introduction to computer-based problem-solving. Includes design tools such as structure charts, Input Processing Output charts (IPO), flowcharts, pseudocode and Object-Oriented Programming (OOP). Concepts such as documentation, structured design and modularity are emphasized. Actual programming experiences are assigned in a procedural level emphasizing structured design techniques. Prerequisite: Mathematics 0482 or 1115 with a grade of "C" or better, or equivalent, or consent of instructor (4 lecture hours)

COMPUTER INFORMATION SYSTEMS 1450 Introduction to Linux/Unix Operating Systems

3 credit hours

Introduction to Linux and Unix, two multi-user, interactive real-time operating systems. Includes the Linux graphical user interfaces, Linux applications, Linux/Unix utilities, file structures, text editors, regular expressions and the help system. Emphasis on building the foundation necessary to understand the capabilities of both the Linux and Unix operating systems and on developing the basic skills necessary to utilize these systems effectively. Prerequisite: Computer Information Systems 1150 or 1160 or consent of instructor (3 lecture hours)

COMPUTER INFORMATION SYSTEMS 1510 Graphical User Interface Programming

4 credit hours

Introduction to event-driven programming in the Windows environment and design techniques used to create the Windows Graphical User Interface (GUI). Includes program design, program syntax and control structures, forms and controls. Prerequisites: Computer Information Systems 1400 and 1130 or consent of instructor (4 lecture hours)

COMPUTER INFORMATION SYSTEMS 1600 Fundamentals of Operating Systems

3 credit hours

Fundamental principles of operating systems, process execution, scheduling, memory management, concurrent

processes, distributed processing, deadlock, security and related topics. Also examines current microcomputer, midrange computer and mainframe operating systems.

Recommended: Computer Information Systems 1130 and Computer Information Systems 1160. (3 lecture hours)

COMPUTER INFORMATION SYSTEMS 1611 Windows Vista Administration

3 credit hours

Introduces the theoretical and practical concepts of local area network on the Microsoft Windows Vista Operating System (OS). Includes installing and configuring the OS, administering users, managing devices, organizing file system, establishing security, and installation and configuration of networking components. Covers network and performance monitoring tools and establishes baseline for troubleshooting problems. Prerequisite: Computer and Internetworking Technologies 1121 or 1180 with a grade of "C" or better, or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

COMPUTER INFORMATION SYSTEMS 1620 Windows Server OS

3 credit hours

Introduces administration of the Windows 2003 server Operating System (OS). Includes installing and configuring server operating system, planning security, installing applications, backing up file system, using utilities, managing users, setting network printers and troubleshooting. Also includes Terminal Services (TS) administration and Network Monitor installation and configuration as well as system recovery functions. Prerequisite: Computer Information Systems 1610 (2 lecture hours, 2 lab hours)

COMPUTER INFORMATION SYSTEMS 1630 Windows Server Active Directory

3 credit hours

Advanced administrative course for Windows 2003 server, Active Directory Services (ADS) on the Windows 2003 network operating system. Includes network administration tasks and tools, management of user and group accounts, organization of shared folders, management of ADS, policy, security, and installation and management of trees and forests. Prerequisite: Computer Information Systems 1620 or consent of instructor (2 lecture hours, 2 lab hours)

COMPUTER INFORMATION SYSTEMS 1650 Wireless Network Administration

3 credit hours

Administration and management of local area wireless networks. Provides Information Technology (IT) staff necessary tools to analyze, design and support wireless LANs. Includes Radio Frequency (RF) technologies, wireless LAN technologies, wireless LAN implementation and management, and wireless LAN industry and standard. Prerequisites: Computer Information Systems 1180 and 1610 or consent of instructor (2 lecture hours, 2 lab hours)

COMPUTER INFORMATION SYSTEMS 1660 Managing a Microsoft Windows Server 2003 Network 3 credit hours

Administration course for managing a Microsoft Windows Server 2003 network. Includes configuration, administration and troubleshooting elements ranging from user accounts to server security. Covers how to create and manage network resources such as file, print and web resources as well as Active Directory (AD) objects. Prerequisite: Computer Information Systems 1620 or equivalent or consent of instructor (2 lecture hours, 2 lab hours)

COMPUTER INFORMATION SYSTEMS 1820 **Selected Topics II**

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken up to three times for credit as long as a different topic is selected each time. Prerequisites will vary depending upon the course contents. Skills attained in prerequisites are necessary for successful completion of the course. (3 lecture hours)

COMPUTER INFORMATION SYSTEMS 1840 Independent Study – Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

COMPUTER INFORMATION SYSTEMS 2212 Game Development II

3 credit hours

Computer game development in three dimensions. Topics include player control, sound, music and animation. Computer games will be created using three-dimensional editors and development tools. Prerequisite: Computer Information Systems 1211 with a grade of "C" or better or consent of instructor (3 lecture hours)

COMPUTER INFORMATION SYSTEMS 2220 Game Programming Using C++

4 credit hours

Game programming using C++ libraries to create Windows-based games and simulators. Topics include player controls, sound, music and animation. Prerequisites: Computer Information Systems 2212, 2542 and Mathematics 2231 with a grade of "C" or better or consent of instructor (4 lecture hours)

COMPUTER INFORMATION SYSTEMS 2230 Simulation and Serious Game Design

3 credit hours

Introduction to simulation and serious game design, which may include military, academic, medical and training applications. Prerequisite: Computer Information Systems 1211 with a grade of "C" or better or consent of instructor (3 lecture hours)

COMPUTER INFORMATION SYSTEMS 2240 Cross-Platform Game Development

3 credit hours

Development factors considered when creating a computer game across multiple platforms and devices. Topics include memory, storage, system configuration and development tool considerations. Current game platforms are analyzed. Prerequisite: Computer Information Systems

2212 with a grade of "C" or better or consent of instructor (3 lecture hours)

COMPUTER INFORMATION SYSTEMS 2320 JavaScript and Advanced HTML

3 credit hours

Creation of web pages using a combination of HTML, DHTML and JavaScript. Includes functions, event handling, control structure, Windows, form validation, animation, cookies and debugging. Prerequisites: Computer Information Systems 1310 and 1400 or consent of instructor (3 lecture hours)

COMPUTER INFORMATION SYSTEMS 2330 Introduction to XML

3 credit hours

An exploration of eXtensible Markup Language (XML) Web technology, highlighting the power of XML to structure data without regard to how the data will be presented. Prerequisite: Computer Information Systems 1310 or consent of instructor (3 lecture hours)

COMPUTER INFORMATION SYSTEMS 2340 Common Gateway Interface (CGI)/Perl

4 credit hours

Introduction of CGI/Perl, a portable cross-platform, object-based scripting language using the Unix/Linux platform to write Perl scripts and use modules from the Perl module library. Includes simple data types, standard and file input/output, flow control, lists and arrays, regular expressions, subroutines and functions, objects and modules, Perl Database Interface (DBI), process management, security, and introduction to the Common Gateway Interface (CGI) and client-server applications. Prerequisites: Computer Information Systems 1450 and any Computer Information Systems 2000-level programming language or consent of instructor (4 lecture hours)

COMPUTER INFORMATION SYSTEMS 2350 Introduction to ASP.NET

4 credit hours

Introduction to web server programming. Includes server programming models, processing forms, creating dynamic web applications, working within the server application environment, debugging web applications, integrating with the file system and other components, interacting with data sources and other web services, using server programming tools, and developing web server applications. Prerequisites: Computer Information Systems 1310 and 1400 or consent of instructor (4 lecture hours)

COMPUTER INFORMATION SYSTEMS 2411 Introduction to COBOL Programming

4 credit hours

Introduction to business programming on medium-to-large scale computers using COBOL. Emphasizes program structure, language syntax, sequential file processing, table handling, sorting procedures, and report logic with control breaks. Prerequisite: Computer Information Systems 1400 or consent of instructor (4 lecture hours)

COMPUTER INFORMATION SYSTEMS 2412 Advanced COBOL Programming Applications

3 credit hours

Structure design programming and documentation techniques emphasized. Experiences with advanced

features of COBOL, including subprograms, Report Writer, Virtual Storage Access Method (VSAM), coding a predefined system project, and indexed and direct file creation and maintenance. Prerequisite: Computer Information Systems 2411 or consent of instructor (3 lecture hours)

COMPUTER INFORMATION SYSTEMS 2420 Microprocessor Assembly Language

4 credit hours

Introduction to the Assembly language of the Intel microprocessor-based microcomputer. Includes the architecture of the microprocessor, the instruction set, memory organization, data representation and data manipulation. Prerequisites: Computer Information Systems 1400 and any Computer Information Systems 2000-level programming language course or consent of instructor (4 lecture hours)

COMPUTER INFORMATION SYSTEMS 2430 Mainframe Assembly Language

4 credit hours

Introduction to mainframe assembly language for IBM and IBM-compatible mainframe computer systems. Includes the architecture of the mainframe microprocessor, the instruction set, memory organization, data representation and data manipulation. Prerequisites: Computer Information Systems 1400 and any Computer Information Systems 2000-level programming language course or consent of instructor (4 lecture hours)

COMPUTER INFORMATION SYSTEMS 2440 **Shell Programming for UNIX/LINUX**

3 credit hours

Introduction to shell programming. Covers a variety of popular shells used in both UNIX and LINUX operating systems. Includes file security and permissions, filename substitution, shell standard input and output, redirection, file input and output, regular expressions, utilities such as grep, awk, sed and the login environment. Emphasis on shell programming, user defined and shell variables, flow control structures, shell functions, shell built-in commands, and the writing and executing of shell scripts. Prerequisites: Computer Information Systems 1450 and any Computer Information Systems 2000 level-programming language course or consent of instructor (3 lecture hours)

COMPUTER INFORMATION SYSTEMS 2450 UNIX System Administration

3 credit hours

Advanced course in the administration and maintenance of the UNIX operating system. Emphasizes UNIX system installation, management and maintenance, users' account control, file system and services, system performances and security. Prerequisite: Computer Information Systems 1450 or consent of instructor (2 lecture hours, 2 lab hours)

COMPUTER INFORMATION SYSTEMS 2455 LINUX System Administration

3 credit hours

Advanced course in the administration and maintenance of the LINUX operating system. Emphasizes LINUX system installation, management and maintenance, users' account control, file system and services, system performances and security. Prerequisite: Computer Information Systems 1450 or consent of instructor (2 lecture hours, 2 lab hours)

COMPUTER INFORMATION SYSTEMS 2480 FORTRAN for Scientific Programming Applications

3 credit hours

Comprehensive coverage of the FORTRAN programming language. Emphasis on design, programming and documentation of scientific applications, including statistical analysis, curve fitting, optimization and engineering, and scientific modeling applications. Prerequisite: Mathematics 2231 (3 lecture hours)

COMPUTER INFORMATION SYSTEMS 2485 **C++ for Science and Engineering**

3 credit hours

Development and application of the C++ language. Emphasis on object-oriented design, programming and documentation of scientific applications. Includes statistical analysis, curve fitting, optimization and engineering, and scientific modeling applications. Topics include language format and syntax, functions, datastorage classes, arrays, structures, introduction to user-defined classes, inheritance and polymorphism. Prerequisite: Mathematics 2231 (3 lecture hours)

COMPUTER INFORMATION SYSTEMS 2510 Advanced Graphical User Interface Programming 4 credit hours

Advanced topics in event-driven programming in the Windows environment. Prerequisite: Computer Information Systems 1510 with a grade of "C" or better or consent of instructor. (4 lecture hours)

COMPUTER INFORMATION SYSTEMS 2521 *Visual Basic.NET I*

4 credit hours

Visual Basic.NET (VB.NET), a graphical user interface programming language, .NET Framework, Visual Studio .NET (VS.NET), object-oriented/event-driven programming, object oriented programming (OOP) terminology, ActiveX Data Object (ADO).NET and Active Server Page (ASP).NET. Emphasis on using .NET managed code. Prerequisite: Computer Information Systems 1510 with a grade of "C" or better, or equivalent, or consent of instructor (4 lecture hours)

COMPUTER INFORMATION SYSTEMS 2541 C++ Language Programming

4 credit hours

Introduces C++ Language Programming, an object-oriented programming language. Includes C++ data types, operators, expressions, control structures, functions, arrays, pointers, strings, Abstract Data Types (ADTs), classes, inheritance, polymorphism, virtual functions and file input/output. Emphasis on building the foundation to understand the capabilities of the C++ programming language and the skills to develop practical procedural and object-oriented applications. Prerequisite: Computer Information Systems 1400 or consent of instructor (4 lecture hours)

COMPUTER INFORMATION SYSTEMS 2542 Advanced C++ with Data Structure Applications 4 credit hours

Covers advanced C++ programming language features with data structure applications. Includes object-oriented

applications using classes, inheritance, encapsulation, polymorphism and other advanced C++ language features. Emphasis on the use of vectors, pointers, dynamic memory, lists, iterators, stacks, queues, linked lists, binary trees, associative containers, hashing, sequential file access, direct file access, recursive algorithms, sorting and searching techniques. Prerequisite: Computer Information Systems 2541 or consent of instructor (4 lecture hours)

COMPUTER INFORMATION SYSTEMS 2551 Introduction to MS Visual C++.NET Programming 4 credit hours

Introduction to Visual C++ Graphical User Interface (GUI) programming, the Microsoft .NET Visual Studio, .NET Framework Library, and the Common Language Runtime (CLR). Includes Visual C++ Managed Extensions, control structures, methods, arrays, classes, Active Server Pages (ASP) .NET Web Services, database access, GUI windows forms, windows control, event handling/delegates, files and streams, multithreading, namespaces and assemblies. Emphasis is on building the foundation necessary to thoroughly understand the capabilities of .NET and object-oriented, event-driven client/server GUI software development. Prerequisite: Computer Information Systems 2542 or consent of instructor (4 lecture hours)

COMPUTER INFORMATION SYSTEMS 2552 Object-Oriented Program Development with VC++.NET 4 credit hours

Introduction to application development using Visual C++.NET. Includes client/server model, the common object model, Active Template Library (ATL) components, Active Template Library servers, Active Data Object (ADO) and Object Data Base Connectivity (ODBC) technologies, Internet programming, Visual Basic integration, C# integration, managed and unmanaged C++, and Extensible Markup Language (XML) services. The Unified Modeling Language (UML) is introduced as a design tool. Prerequisite: Computer Information Systems 2551 or consent of instructor (4 lecture hours)

COMPUTER INFORMATION SYSTEMS 2561 Introduction to C# .NET

4 credit hours

Introduction to C# .NET (pronounced C-sharp dot NET), an object-oriented, Graphical User Interface .NET programming language. Designed to introduce the .NET platform, the .NET Framework Library, C# control structures, methods, arrays, object-oriented programming, graphical user interface, strings, regular expressions, graphics, files, streams and database access. Emphasis is on building the foundation necessary to understand the capabilities of the C# programming language and the skills to develop Internet and World-Wide-Web based client/server applications. Prerequisite: Computer Information Systems 1510 or 2541 or consent of instructor (4 lecture hours)

COMPUTER INFORMATION SYSTEMS 2571 Introduction to Java

4 credit hours

Introduction to object-based problem solving in the Java language. Includes encapsulation, class design, objects,

polymorphism and Graphical User Interface (GUI) components. Prerequisite: Computer Information Systems 1400 or consent of instructor (4 lecture hours)

COMPUTER INFORMATION SYSTEMS 2572 Applications in Java

4 credit hours

Development of applications using the Java language. Emphasis on applications involving exception handling, multithreading, images, animation, files, streams, recursion, generics, collections, networking, graph applications and data structures. Prerequisite: Computer Information Systems 2571 or consent of instructor (4 lecture hours)

COMPUTER INFORMATION SYSTEMS 2573 Advanced Java Technologies

4 credit hours

Development of applications using advanced Java technologies, including observers, multi-document interfaces, model-view-controllers, Remote Method Invocation, Java Beans, advanced swing concepts, Java database connectivity, servelts and Java Server Pages (JSP) are introduced as design tools. Prerequisite: Computer Information Systems 2572 or consent of instructor (4 lecture hours)

COMPUTER INFORMATION SYSTEMS 2610 Network Security

3 credit hours

Advanced administration course for Network Security on the Windows network operating system. Includes basics of Firewall, Intrusion Detection (IDS), virus scanning, attack/prevention methodologies, advanced security scenarios, Virtual Private Network (VPN), remote access, wireless security, security policy and Microsoft security solutions. Prerequisites: Computer Information Systems 1630 and 1640 (3 lecture hours)

COMPUTER INFORMATION SYSTEMS 2630 MS SQL Server Administration

3 credit hours

Administration course for Microsoft Standard Query Language (MS SQL) server, database system on Windows 2003 server network operating system. Includes installation and configuration of SQL server, configuration of SQL Extensible Markup Language (XML) support in Internet Information Server (IIS), enterprise manager and creating databases. Covers SQL database structure, physical data storage, transaction architecture, query analyzer, import and export data, profiler, bulk copy program, data transformation services and replication. Prerequisite: Computer Information Systems 1630 or equivalent (2 lecture hours, 2 lab hours)

COMPUTER INFORMATION SYSTEMS 2710 Database Management

4 credit hours

Surveys micro, mini and mainframe database (DB) systems, including physical and logical structures, data languages, and database design and administration. Includes client/server, Internet DB environments, data warehousing, Object-Oriented data modeling, On-line Analytic Processing (OLAP) and DB development. DB commercially available database systems are discussed and hands-on experience is given using a specific database system. Prerequisite: Any

college-level programming class or consent of instructor (4 lecture hours)

COMPUTER INFORMATION SYSTEMS 2720 Structured Query Language (SQL) I

3 credit hours

Introduction to Structured Query Language (SQL) programming. Includes concepts of relational databases and SQL programming commands. Uses SQL statements to create and maintain database objects. One or more DataBase Management Systems (DBMS) are used. No prior SQL programming knowledge is required. Prerequisites: Computer Information Systems 1230 and 2710, or equivalents, or consent of instructor (3 lecture hours)

COMPUTER INFORMATION SYSTEMS 2725 Enterprise SQL Application

3 credit hours

Application of Structured Query Language (SQL) command statements on a vendor-specific Enterprise Database Management System (DBMS). Creation, maintenance and deployment of a database in an enterprise network environment. Covers writing stored procedures, triggers, Windows applications and Web applications. Essential administrative information for developers is also introduced. Prerequisite: Computer Information Systems 2720 or equivalent, or consent of instructor (3 lecture hours)

COMPUTER INFORMATION SYSTEMS 2730 Enterprise Database Development

3 credit hours

Apply Structured Query Language (SQL) command statements on a vendor-specific Enterprise Database Management System (DBMS). Creation, maintenance and deployment of a database in an enterprise network environment. Essential administrative information for developers is also introduced. Prerequisite: Computer Information Systems 2720, or equivalent, or consent of instructor (3 lecture hours)

COMPUTER INFORMATION SYSTEMS 2770 Introduction to System Analysis and Design 3 credit hours

Concepts, tools and techniques required to analyze and design business information systems. Includes both Structured and Object approaches in covering the Systems Development Life Cycle (SDLC). Information systems in organizations, Structured and Object modeling, project plan development, financial models for cost/benefit analysis, project failure analysis and risk assessment models. Prerequisite: Any 2000-level programming course, advanced spreadsheet class, advanced database class, or consent of instructor (3 lecture hours)

COMPUTER INFORMATION SYSTEMS 2790 Systems Analyst Simulation

3 credit hours

Case study and team-based simulation techniques using estimating tools and project management techniques to analyze client opportunities, develop payback scenarios, work plans and deliverables. Prerequisite: Computer Information Systems 2770 with a grade of "C" or better or consent of instructor (3 lecture hours)

COMPUTER INFORMATION SYSTEMS 2840

Experimental/Pilot Class

1 to 6 credit hours

Exploration and analysis of topics within the discipline. This course is used to pilot a proposal for a permanent discipline course. May be taken three times for credit as long as different topics are selected. Prerequisite: At least one course in the discipline (1 to 6 lecture hours)

For additional information, call the program coordinator, Annette Kerwin, at (630) 942-2042, or the Business and Technology division at (630) 942-2592.

COSMETOLOGY

COSMETOLOGY 1101

Salon Safety and Sanitation I

2 credit hours

Introduction to procedures in identification of required safety and decontamination in a salon. Business etiquette in the cosmetology field. Prepares student for state certification for the Illinois Cosmetology License from the Department of Professional and Financial Regulations. Prerequisite: Admission into Cosmetology Program and concurrent enrollment: Cosmetology 1103, 1105 and 1107 (1 lecture hour, 4 lab hours)

COSMETOLOGY 1103

Cosmetic Chemical Services I

3 credit hours

Introduction to basic cosmetic chemical services, including shampoo, scalp treatment, chemical texture and hair color. Prepares student for state certification for the Cosmetology License from the Department of Professional and Financial Regulations. Prerequisite: Admission into Cosmetology Program and concurrent enrollment: Cosmetology 1101, 1105 and 1107 (1 lecture hour, 4 lab hours)

COSMETOLOGY 1105

Introduction to Basic Hairstyling I

3 credit hours

Principles of hair design applied to complementary hair styling for clients. Introduction to hairstyling techniques that include basic finger waving, braiding and hair roller placement. An introduction to haircutting equipment. Prepares student for state certification for the Illinois Cosmetology License from the Department of Professional and Financial Regulations. Prerequisite: Admission into Cosmetology Program and concurrent enrollment: Cosmetology 1101, 1103 and 1107 (1 lecture hour, 4 lab hours)

COSMETOLOGY 1107

Introduction to Basic Thermal Styling I

2 credit hours

Introduction to thermal hair styling using the various thermal implements and techniques. Prepares student for state certification for the Cosmetology License from the Department of Professional and Financial Regulations. Prerequisite: Admission into Cosmetology Program and concurrent enrollment: Cosmetology 1101, 1103 and 1105 (1 lecture hour, 4 lab hours)

COSMETOLOGY 1111

Introduction to Hair Styling II

2 credit hours

Introduction to various haircutting techniques, including use of shears and razors. Basic principles of hair roller placement, set and comb out using various patterns and techniques. Prepares student for state certification for the Cosmetology License from the Department of Professional and Financial Regulations. Prerequisites: Cosmetology 1107 with a grade of "C" or better and concurrent enrollment in Cosmetology 1113, 1115 and 1117 (1 lecture hour, 4 lab hours)

COSMETOLOGY 1113

Introduction to Chemical Services II

3 credit hours

Application of chemical texturing, relaxing and permanent waving. Application of hair color and lightening. Prepares student for state certification for the Cosmetology License from the Department of Professional and Financial Regulations. Prerequisites: Cosmetology 1107 with a grade of "C" or better and concurrent enrollment in Cosmetology 1111, 1115 and 1117 (1 lecture hour, 4 lab hours)

COSMETOLOGY 1115

Salon Operations I

3 credit hours

Introduction to necessary skills to be successful in the beauty salon, including acting as a sanitation manager and demonstrating effective communication skills. Emphasis on job-seeking skills. Prepares student for state certification for the Cosmetology License from the Department of Professional and Financial Regulations. Prerequisites: Cosmetology 1107 with a grade of "C" or better and concurrent enrollment in Cosmetology 1111, 1113 and 1117 (1 lecture hour, 4 lab hours)

COSMETOLOGY 1117

Introduction to Aesthetics and Nail Technology I 2 credit hours

Introduction to massage movements, facial techniques, hair removal, eyebrow arching, manicuring and pedicuring. Prepares student for state certification for the Cosmetology License from the Department of Professional and Financial Regulations. Prerequisites: Cosmetology 1107 with a grade of "C" or better and concurrent enrollment in Cosmetology 1111, 1113 and 1115 (1 lecture hour, 4 lab hours)

COSMETOLOGY 1120

License Review I

2 credit hours

Review all first-year curriculum to evaluate readiness for entry into the clinic portion of the cosmetology program. Prepares student for state certification for the Cosmetology License from the Department of Professional and Financial Regulations. Prerequisite: Cosmetology 1117 with a grade of "C" or better (1 lecture hour, 4 lab hours)

COSMETOLOGY 2201

Hairstyling III

3 credit hours

Principles of hair design, including fingerwaving, skip waving and pencil waves. Overview of hair composition, divisions, growth process and loss. Introduction to clipper cutting techniques. Prepares student for state certification

for the Cosmetology License from the Department of Professional and Financial Regulations. Prerequisites: Cosmetology 1120 with a grade of "C" or better and concurrent enrollment in Cosmetology 2203, 2205 and 2207 (1 lecture hour, 4 lab hours)

COSMETOLOGY 2203

Chemical Services III

3 credit hours

Application of basic hair coloring, lightening and chemical texture with clients. Prepares student for state certification for the Cosmetology License from the Department of Professional and Financial Regulations. Prerequisites: Cosmetology 1120 with a grade of "C" or better and concurrent enrollment in Cosmetology 2201, 2205 and 2207 (1 lecture hour, 4 lab hours)

COSMETOLOGY 2205

Advanced Aesthetics and Nail Technology

2 credit hours

Application of manicures, pedicures, and facial massage in a salon with clients. Prepares student for state certification for the Cosmetology License from the Department of Professional and Financial Regulations. Prerequisites: Cosmetology 1120 with a grade of "C" or better and concurrent enrollment in Cosmetology 2201, 2203 and 2207 (1 lecture hour, 4 lab hours)

COSMETOLOGY 2207

Salon Safety and Sanitation II

2 credit hours

Application of safety and decontamination procedures in a salon with clients. Work in a clinic dispensary and take inventory of salon supplies. Prepares student for state certification for the Cosmetology License from the Department of Professional and Financial Regulations. Prerequisites: Cosmetology 1120 with a grade of "C" or better and concurrent enrollment in Cosmetology 2201, 2203 and 2205, or consent of instructor (1 lecture hour, 4 lab hours)

COSMETOLOGY 2221

Advanced Hair Styling

2 credit hours

Exploration of the various hairstyles, braiding techniques and uses and placement of artificial hair. Advanced techniques in haircutting and wet hair styling. Prepares student for state certification for the Cosmetology License from the Department of Professional and Financial Regulations. Prerequisites: Cosmetology 2207 with a grade of "C" or better and Concurrent enrollment in Cosmetology 2223, 2225 and 2227 (1 lecture hour, 4 lab hours)

COSMETOLOGY 2223

Advanced Chemical Services I

3 credit hours

Advanced procedures in chemical textures and hair removal. The role of chemistry, electricity and light therapy related to the field of cosmetology. Prepares student for state certification for the Cosmetology License from the Department of Professional and Financial Regulations. Prerequisite: Cosmetology 2207 with a grade of "C" or better and concurrent enrollment in Cosmetology 2221, 2225 and 2227 (1 lecture hour, 4 lab hours)

COSMETOLOGY 2225

Salon Operations II

3 credit hours

Management of salon routines and operations. Prepares student for state certification for the Cosmetology License from the Department of Professional and Financial Regulations. Prerequisite: Cosmetology 2207 with a grade of "C" or better and concurrent enrollment in Cosmetology 2221, 2223 and 2227 (1 lecture hour, 4 lab hours)

COSMETOLOGY 2227

Advanced Thermal Styling

2 credit hours

Application of advanced thermal styling in a salon with clients. Prepares student for state certification for the Cosmetology License from the Department of Professional and Financial Regulations. Prerequisite: Cosmetology 2207 with a grade of "C" or better and concurrent enrollment in Cosmetology 2221, 2223 and 2225 (1 lecture hour, 4 lab hours)

COSMETOLOGY 2250

License Review II

2 credit hours

Comprehensive review of cosmetology curriculum and skills in preparation for the Illinois state board exam to complete the requirements for licensing. Prerequisite: Cosmetology 2227 with a grade of "C" or better and concurrent enrollment in Cosmetology 2253 (1 lecture hour, 4 lab hours)

COSMETOLOGY 2253

Advanced Chemical Services II

2 credit hours

In-depth study of the perming and hair color process. Prepares student for state certification for the Cosmetology License from the Department of Professional and Financial Regulations. Prerequisite: Cosmetology 2227 with a grade of "C" or better and concurrent enrollment in Cosmetology 2250 (1 lecture hour, 4 lab hours)

For additional information, call Bea Brown (630) 942-2918.

CRIMINAL JUSTICE

CRIMINAL JUSTICE 1100

Introduction to Criminal Justice

3 credit hours

An overview of the criminal justice system, its history and philosophy. This includes an analysis of the major components of criminal justice and their interrelationship in the administration of justice. (3 lecture hours)

CRIMINAL JUSTICE 1110

Police Operations and Procedures

3 credit hours

Survey of police patrol functions with emphasis on responsibilities of the uniformed officer, personnel distribution theories, community and problem-oriented policing strategies, police ethics and accountability, and the relationship between the officer and the community. (3 lecture hours)

CRIMINAL JUSTICE 1112

Crime Prevention

3 credit hours

An overview of crime prevention strategies from an individual and community perspective, including a discussion and analysis of neighborhood watch programs, home security strategies and personal security tactics. School-based and age-specific community crime prevention programs and the application of technology to crime prevention problems are discussed. (3 lecture hours)

CRIMINAL JUSTICE 1120

Traffic Law and Investigation

3 credit hours

Vehicle traffic law, regulation and enforcement, fundamentals of accident causation, prevention and investigation. (3 lecture hours)

CRIMINAL JUSTICE 1130

Introduction to Corrections

3 credit hours

An overview of the goals, structure and operations of correctional institutions; sentencing trends and alternatives to incarceration; probation and parole; inmate life, prisonization and institutionalization; jail administration and community correctional programs. (3 lecture hours)

CRIMINAL JUSTICE 1135

Gangs and the Criminal Justice System

3 credit hours

An overview of the nature of gang membership and structure; theories of gang involvement; legal strategies in gang prevention and intervention, with emphasis on gangs in suburban communities; legislative strategies and community gang prevention partnerships. (3 lecture hours)

CRIMINAL JUSTICE 1140

Principles of Security Administration

3 credit hours

An overview of security systems found in industrial, commercial, retail and governmental agencies; legal framework for security programs; internal business crime and its detection, apprehension and prevention. (3 lecture hours)

CRIMINAL JUSTICE 1145

Introduction to Homeland Security

3 credit hours

An overview of the evolution of the Department of Homeland Security (DHS) in the United States and surveys the major policies, practices, concepts and challenges confronting the field. An analysis of various organizations under the authority of DHS and an assessment of the current threats from international and domestic terrorism will be examined. Examination of government, private organizations and citizens involvement in protecting against and responding to terrorist threats. (3 lecture hours)

CRIMINAL JUSTICE 1146

Introduction to Border, Transportation and Physical Security

3 credit hours

Forms of security, including law enforcement that coincide with securing the United States from the potential threat of a terrorist attack. In particular, the areas of border security, transportation security, and overall physical security of persons and places will be emphasized. (3 lecture hours)

CRIMINAL JUSTICE 1147

Introduction to Domestic and International Terrorism 3 credit hours

Examination of the threat of domestic and international terrorism and the complex origins, motivations, ideologies, goals and tactics of various domestic and international terrorist groups. Cultural, religious and economic influences on terrorism will be considered. Topical issues, including state, political and revolutionary terrorism, religious and apocalyptic violence, weapons of mass destruction, and terrorist tactics and targeting, as well as the practical strategies and approaches of counterterrorism. (3 lecture hours)

CRIMINAL JUSTICE 1148

Emergency Management

3 credit hours

Examines theories, principles and practices of emergency management, including the related processes of mitigation, preparedness, response and recovery. Evolution of emergency management and its practical application within government and private sector will be addressed. (3 lecture hours)

CRIMINAL JUSTICE 1151

Constitutional Law

3 credit hours

Development and history of the federal Constitution and Bill of Rights; substantive content of the amendments and corresponding state provisions; and emphasis on recent court interpretations and trends. (3 lecture hours)

CRIMINAL JUSTICE 1152

Criminal Law

3 credit hours

An overview of the development of criminal law and the principles of accountability. This includes a review and analysis of substantive criminal law, the necessary elements of a variety of crimes, and related criminal defenses. (3 lecture hours)

CRIMINAL JUSTICE 1153

Rules of Evidence

3 credit hours

The types and forms of evidence. Emphasis on the rules governing the admissibility of evidence in federal and state criminal courts. (3 lecture hours)

CRIMINAL JUSTICE 1154

Substance Abuse and the Law

3 credit hours

Criminal law and procedure related to alcohol use and abuse and other controlled substances. This includes enforcement, adjudication, sentencing and treatment aspects as they relate to crimes involving substance abuse. (3 lecture hours)

CRIMINAL JUSTICE 1165

Computers and Criminal Justice

3 credit hours

A comprehensive overview of computer-related crimes, including related reactive and proactive investigative

strategies; programs involving computer technologies developed and utilized by criminal justice investigators, analysts and other professionals. (3 lecture hours)

CRIMINAL JUSTICE 1820

Selected Topics

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (3 lecture hours)

CRIMINAL JUSTICE 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

CRIMINAL JUSTICE 2230

Criminal Investigation

3 credit hours

Fundamentals of investigation; search, collection, preservation and recording at the crime scene; sources of information; physical and chemical analysis and comparison techniques; and case preparation and courtroom testimony. (3 lecture hours)

CRIMINAL JUSTICE 2235

Basic Evidence Photography

3 credit hours

Basic police photographic techniques, including legal and technical aspects of evidence photography. Application of photographic equipment, film and techniques to crime scene and evidence-gathering problems. Additional emphasis placed on digital format photography, computer software and hardware, and digital video surveillance techniques. (3 lecture hours)

CRIMINAL JUSTICE 2240

Juvenile Delinquency

3 credit hours

An overview of juvenile court jurisdiction, related procedures and their historical context; theoretical perspectives of delinquency causation and related prevention and intervention programs. (3 lecture hours)

CRIMINAL JUSTICE 2250

Police Organization and Administration

3 credit hours

Analysis of classical and current law enforcement organizational patterns, including an overview of the administrative processes within police agencies and management theories as applied to law enforcement administration. (3 lecture hours)

CRIMINAL JUSTICE 2260

Issues in Criminal Justice

3 credit hours

Contemporary critical issues related to crime and society; analysis and evaluation of recent studies and documents; methods of implementing research findings. Prerequisite: Criminal Justice 1100 or Sociology 1100 (3 lecture hours)

CRIMINAL JUSTICE 2820

Advanced Selected Topics

3 credit hours

Advanced exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. Prerequisite: Criminal Justice 1100 or consent of instructor (3 lecture hours)

CRIMINAL JUSTICE 2871

Cooperative Education/Internship Advanced (Transfer)

1 to 4 credit hours

Continuation of Cooperative Education/Internship (Transfer). Participation in transfer area of study work experience under supervision of both college and employer. Internship/cooperative education learning objectives developed by student and faculty adviser, with approval of employer, to provide appropriate work-based learning experience. Minimum 75 clock hours per semester credit. Prerequisites: Consent of instructor or written permission of the Cooperative Education/Internship program staff and faculty adviser, successful completion of Cooperative Education/Internship I (Transfer), cumulative grade point average of 2.0, and 12 semester credits in related field of study (5 to 20 lab hours)

For additional information regarding Criminal Justice, call Deborah Klein at (630) 942-3019, Theodore Darden at (630) 942-2989, and Eric Thompson (630) 942-3360.

DENTAL HYGIENE

DENTAL HYGIENE 1101

Principles in Dental Hygiene I

3 credit hours

Principles of disease transmission. Infection control policies, patient procedures, patient assessment and fundamental instrumentation for the dental hygienist. Foundation of knowledge and strategies of preventive dental hygiene practice. Emphasis on mechanical and chemical plaque control, use of fluoride and health promotion. Prerequisite: Admission into the Dental Hygiene program (3 lecture hours)

DENTAL HYGIENE 1102

Principles in Dental Hygiene II

2 credit hours

Rationale for collection of assessment data and associated clinical procedures. Data collection. Use of instruments, dental sealants, topical fluorides and development of dental hygiene treatment plans. Introduction to direct patient care. Prerequisite: Dental Hygiene 1101 with a grade of "C" or better (2 lecture hours)

DENTAL HYGIENE 1105

Dental Materials/Expanded Functions

3 credit hours

Physical and chemical properties of dental materials, characteristics and manipulation of impression materials, gypsum products, investments, waxes, cements, resins, metallic and non-metallic restorative agents. Prerequisites:

Successful completion of Dental Hygiene 1101, 1120, 1115, 1125 and 1135 with a grade of "C" or better (2 lecture hours, 3 lab hours)

DENTAL HYGIENE 1112

Dental Radiology I

2 credit hours

Concepts of radiation history, radiation physics, radiation biology, radiation protection, dental X-ray equipment, film, image characteristics and film processing. Introduction to radiographic examination techniques. Prerequisite: Admission to Dental Hygiene program (1 lecture hour, 3 lab hours)

DENTAL HYGIENE 1115

Dental Tooth Anatomy and Morphology

2 credit hours

Emphasis on clinical appearance of oral structures, dental terminology, morphology of the permanent and primary dentition, patterns, and the occlusion and malocclusion within and between the dental arches. Review of dental anomalies and other clinical appearances. Prerequisite: Admission to the Dental Hygiene program (1 lecture hour, 3 lab hours)

DENTAL HYGIENE 1120

Preclinical Dental Hygiene I

1 credit hour

Integration of the scientific and clinical principles underlying the practice of dental hygiene. Clinical procedures and techniques for patient assessment, including prevention of disease transmission, health history, extra and intraoral examination, gingival evaluation and periodontal examination. Operation of the dental unit and basic instrumentation techniques for the removal of plaque and calculus are presented. Prerequisite: Admission to the Dental Hygiene program

DENTAL HYGIENE 1121 Clinical Dental Hygiene I

1 credit hour

Comprehensive examination procedures, charting and patient treatment. Adjunctive procedures are presented, dental caries preventive agent application and stain removal procedures. Integration of scientific and clinical principles underlying the practice of dental hygiene. Assessing, planning, implementing and evaluating dental hygiene care on patients in the clinical setting. Prerequisite: Dental Hygiene 1120 with a grade of "C" or better

DENTAL HYGIENE 1125

Head and Neck Anatomy: Histology and Embryology 2 credit hours

Organization, structure and function of the head and neck. Focus will be placed on histologic and embryologic development and structural microanatomy to gain an understanding of clinical and oral manifestations of the regions of the head and neck. Prerequisite: Admission to the Dental Hygiene program (2 lecture hours)

DENTAL HYGIENE 1135

Applied Nutrition and Biochemistry for the Dental Hygienist

2 credit hours

Principles of nutrition and biochemistry applied to dental hygiene patient care. Skills in diet analysis and patient counseling. Prerequisite: Admission to the Dental Hygiene program (2 lecture hours)

DENTAL HYGIENE 1136 General and Oral Pathology

2 credit hours

Pathology of the head and neck and oral structures. Specific pathologic processes, repair, healing and regressive changes. Developmental conditions, diseases of bacterial and viral origin, and neoplasms of the oral cavity. Prerequisites: Dental Hygiene 1101, 1115, 1120, 1125 and 1135 with a grade of "C" or better (2 lecture hours)

DENTAL HYGIENE 1145

Medical Emergencies in a Dental Office

1 credit hour

Familiarity with critical steps in prevention, preparation, early recognition and appropriate management of common medical emergencies in the dental office. Prerequisites: Dental Hygiene 1101, 1115, 1120, 1124 and 1135 with grade a of "C" or better (1 lecture hour)

DENTAL HYGIENE 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor. (1 to 4 lecture hours)

DENTAL HYGIENE 2201

Dental Hygiene Theory I

2 credit hours

Application of dental hygiene theory to direct patient care. Techniques and theory related to local anesthesia administration of local anesthetic agents. Emphasis of dental hygiene care of patients with various systemic, mental and physical disorders in the dental office setting. Introduction to use of heavy scaling hand instruments is included. Prerequisite: Dental Hygiene 1102 with a grade of "C" or better (1 lecture hour, 3 lab hours)

DENTAL HYGIENE 2202

Dental Hygiene Theory II

2 credit hours

Application of dental hygiene theory to direct patient care. Overview of dental hygiene care of patients with various systemic and mental disorders. Presentation of periodontal cases is included. Prerequisite: Dental Hygiene 2201 with a grade of "C" or better (2 lecture hours)

DENTAL HYGIENE 2211

Periodontics I

2 credit hours

Periodontal anatomy. Physiology/etiology of periodontal diseases. Clinical, histopathogenesis of

gingivitis/periodontitis. Role of genetics, tobacco use and systemic preventative/therapeutic procedures associated with diagnosis, prognosis, treatment and initial phase of periodontal therapy. Prerequisites: Dental Hygiene 1102, 1105, 1112, 1121, 1135 and 1145 with a grade of "C" or better (2 lecture hours)

DENTAL HYGIENE 2212

Periodontics II

2 credit hours

Description of clinical procedures associated with surgical phase of periodontal therapy. Evaluation of periodontal treatment, maintenance phase, ad relationship between periodontics and other dental specialties. Discussion of clinical management of the periodontum and adjunctive therapies. Prerequisite: Dental Hygiene 2211 with a grade of "C" or better (2 lecture hours)

DENTAL HYGIENE 2213

Dental Radiology II

2 credit hours

Advanced dental radiographic and related procedures, including exposure and technique errors, occlusal and localization techniques, normal anatomy, panoramic films and radiography, extraoral radiography and digital radiography. Radiography for patients with special needs, introduction to radiographic interpretation: dental caries, periodontal disease, trauma and pulpal and periapical lesions. Introduction to forensic odontology. Prerequisite: Dental Hygiene 1112 with a grade of "C" or better (1 lecture hour, 3 lab hours)

DENTAL HYGIENE 2222

Clinical Dental Hygiene II

2 credit hours

Continuation of clinical dental hygiene practice. Includes assessment, planning and implementation of patient care. Adjunctive clinical services include dental sealants, ultrasonic scaling, air polishing, topical fluoride treatments and dental radiographs. Prerequisite: Dental Hygiene 1121 with a grade of "C" or better

DENTAL HYGIENE 2223

Clinical Dental Hygiene III

2 credit hours

Continuation of clinical dental hygiene practice. Includes assessment, planning and implementation of patient care. Adjunctive clinical services include dental sealants, ultrasonic scaling, air polishing, topical fluoride treatments, amalgam polishing, application of desensitizing agents and dental radiographs. Introduction to outside rotational experiences. Prerequisite: Dental Hygiene 2222 with a grade of "C" or better

DENTAL HYGIENE 2224

Clinical Dental Hygiene IV

2 credit hours

Continuation of clinical dental hygiene practice. Includes assessment, planning and implementation of patient care. Adjunctive clinical services include dental sealants, ultrasonic scaling, air polishing, topical fluoride treatments, amalgam polishing, application of desensitizing agents and dental radiographs. Administration of topical and local

anesthetic agents. Prerequisite: Dental Hygiene 2223 with a grade of "C" or better

DENTAL HYGIENE 2225

Review of Dental Literature

1 credit hour

Review and evaluation of dental literature for the contemporary dental hygienist. Focus on research methodologies and statistical analysis as it applies to dentistry. (1 lecture hour)

DENTAL HYGIENE 2232

Community Dental Health I

2 credit hours

Dental hygienist's role in community. Epidemiological concepts, trends in oral diseases, research assessment tools, and strategies to improve public access to oral health care. Review of biostatistics, federal and state agencies, and managed care. Prerequisite: Dental Hygiene 2225 with a grade of "C" or better (2 lecture hours)

DENTAL HYGIENE 2233

Community Dental Health II

2 credit hours

Creation, implementation and evaluation of a dental health care program in the community. Presentation of projects to faculty and peers. Prerequisite: Dental Hygiene 2232 with a grade of "C" or better (6 lab hours)

DENTAL HYGIENE 2235

Dental Pharmacology and Local Anesthetics

2 credit hours

Classifications and varieties of drugs, pharmacologic effects, adverse reactions, usual indications and contraindications. Discussion of drugs utilized to treat common diseases. Pharmacokinetics of local and general anesthetic agents, and their use. Prerequisites: Dental Hygiene 1115, 1125, 1135, 1136, 2211 and 2222 with a grade of "C" or better (2 lecture hours)

DENTAL HYGIENE 2245

Ethics and Jurisprudence: Practice Management for the Dental Hygienist

2 credit hours

Preparation for professional role as health care provider and member of dental health team. Focus on ethical and legal responsibilities, dental practice act, malpractice issues and scope of dental hygiene practice. Prerequisites: Dental Hygiene 2201 and 2222 with a grade of 'C' or better (2 lecture hours)

This program has special admission requirements and a separate application process in addition to that required by College of DuPage. Admission to the program is required to enroll in all of the Dental Hygiene courses. Space in the program is limited and the number of applications exceeds the number of available positions. For additional information, call Patricia Wellner, program coordinator, at (630) 942-4237, or e-mail wellner@cod.edu. For all information regarding the Dental Hygiene program, access the college web site at www.cod.edu.

DIAGNOSTIC MEDICAL IMAGING NUCLEAR MEDICINE

DIAGNOSTIC MEDICAL IMAGING NUCLEAR MEDICINE 1100 **Basics of Nuclear Medicine**

3 credit hours

History and evolution of nuclear medicine as an imaging modality. Radionuclide identification, radionuclide energies and half-lives, and commonly used radiopharmaceuticals for Diagnostic Nuclear Medicine procedures. Introduction to Diagnostic Nuclear Medicine procedures. Patient handling techniques and nursing and laboratory procedures relating to nuclear medicine. Introduction to professional medical ethics, legal issues and patient rights. Quality assurance procedures for the radiation protection of nuclear medicine personnel. Prerequisite: Admission to program or consent of instructor (2 lecture hours, 2 lab hours)

DIAGNOSTIC MEDICAL IMAGING NUCLEAR MEDICINE 1101 Physics and Instrumentation in Nuclear Medicine 6 credit hours

Principles of atomic structure, nomenclature and radiation. Introduction to radionuclides, physics of radiation (particulate and non-particulate), natural and artificial radiation, calculations of radioactive decay, exponential equations, calculation of radiation dosimetry, half-life equations, radionuclide production, radiopharmaceutical dose determinations, radiation interactions with matter, radiation protection and safety methodology, radiation shielding formulation and counting statistics. Basic aspects in imaging and non-imaging radiation detection instrumentation, including scintillation detectors, planar, SPECT (single photon emission computerized tomography), PET (positron emission tomography), multichannel analyzers, quality assurance testing for nuclear medicine instrumentation, including G-M detectors, ionization chambers and scintillation detectors. Prerequisite: Admission to program or consent of instructor (4 lecture hours, 4 lab hours)

DIAGNOSTIC MEDICAL IMAGING NUCLEAR MEDICINE 1102 **Nuclear Medicine Radiopharmacy**

6 credit hours

Nuclear medicine radiopharmacy, including production of radionuclides, radiopharmaceutical chemistry, radiopharmaceuticals and methods of radiolabeling, characteristics of specific radiopharmaceuticals, biorouting and physiological mechanisms of tracer uptake. phamacokinetics, radiation units, specific activity, concentration determination, dose calculations, methods of dispensing, quality assurance of radiopharmaceuticals, and universal precautions. Specialized clinical radiopharmaceuticals include monoclonal antibodies, peptides, receptors, Positron Emission Tomography, therapy and current research. Radiopharmacy design, management and record keeping, radiation safety and Nuclear Regulatory Commission (NRC) and Illinois Emergency Management Agency (IEMA) radiopharmacy rules and regulations. Prerequisites: Diagnostic Medical Imaging Nuclear Medicine 1100, 1101 and 1111, or equivalent, or consent of instructor (4 lecture hours)

DIAGNOSTIC MEDICAL IMAGING NUCLEAR MEDICINE 1103 Radiation Biology and Radiation Safety

2 credit hours

Topics in radiation biology will include qualitative and quantitative effects on the human body following exposure to various types of ionizing radiation, and the potential harmful effects and the benefits of the medical uses of radiation. Procedures for personnel and environmental monitoring, emergency management, decontamination, and proper methods of receiving, storing and disposing of radioactive materials. Basic concepts of radiation exposure reduction. Concepts of radiation safety for personnel, patients and the environment. Prerequisite: Admission to program or consent of instructor (2 lecture hours, 1 lab hour)

DIAGNOSTIC MEDICAL IMAGING NUCLEAR MEDICINE 1111 Clinical Nuclear Medicine I

3 credit hours

First in a three-course sequence of supervised clinical instruction in Nuclear Medicine Technology. Comprehensive study of imaging and non-imaging techniques, instrumentation quality control, patient care, radiopharmacy, computer analysis and quality assurance. Students are expected to demonstrate competency according to defined objectives at prospective clinical affiliates. Prerequisite: Admission to program.

DIAGNOSTIC MEDICAL IMAGING NUCLEAR MEDICINE 2200 **Nuclear Medicine Procedures II**

4 credit hours

Applied anatomy and physiology of cardiovascular, skeletal, genitourinary, gastrointestinal, respiratory and endocrine systems. Diagnostic imaging techniques, radiopharmaceutical agents, indications and limitations of nuclear medicine procedures, normal and abnormal pathology, dosimetry. Computer acquisition and processing techniques. Case study critiques, journal review and case study presentations. Prerequisites: Diagnostic Medical Imaging Nuclear Medicine 1100, 1101, 1103 and 1111 and admission to program or consent of instructor (3 lecture hours, 2 lab hours)

DIAGNOSTIC MEDICAL IMAGING NUCLEAR MEDICINE 2202 **Nuclear Medicine Procedures III**

4 credit hours

Applied anatomy and physiology of the central nervous, immune, lymphatic, hematopoietic, exocrine and gastrointestinal systems. Non-imaging tests, including Schilling's, Helibacter pylori and blood volume determination. Advanced topics in nuclear cardiology, tumor imaging, neurology, radioimmunoimaging, radioimmunotherapy and miscellaneous procedures. Diagnostic imaging techniques, radiopharmaceutical agents, indications and limitations of nuclear medicine procedures, normal and abnormal pathology, dosimetry. Computer acquisition and processing techniques. Case study critiques, journal review and case study presentations. Prerequisite: Consent of instructor (3 lecture hours, 2 lab hours)

DIAGNOSTIC MEDICAL IMAGING NUCLEAR MEDICINE 2211 Clinical Nuclear Medicine II

3 credit hours

Second in a three-course sequence of supervised clinical instruction in Nuclear Medicine Technology.

Comprehensive study of imaging and non-imaging techniques, instrumentation quality control, patient care, radiopharmacy, computer analysis and quality assurance. Students are expected to demonstrate competency according to defined objectives at prospective clinical affiliates. Prerequisite: Diagnostic Medical Imaging Nuclear Medicine 1111 or consent of instructor

DIAGNOSTIC MEDICAL IMAGING NUCLEAR MEDICINE 2212 Clinical Nuclear Medicine III

3 credit hours

Third in a three-course sequence of supervised clinical instruction in Nuclear Medicine Technology.

Comprehensive study of imaging and non-imaging techniques, instrumentation quality control, patient care, radiopharmacy, computer analysis and quality assurance. Students are expected to demonstrate competency according to defined objectives at prospective clinical affiliates. Prerequisite: Diagnostic Medical Imaging Nuclear Medicine 2211 or consent of instructor

DIAGNOSTIC MEDICAL IMAGING NUCLEAR MEDICINE 2221 **PET/CT**

3 credit hours

Physics, instrumentation and radiochemistry of PET (Positron Emission Tomography). Quality assurance of the PET and PET-CT (computerized tomography) instrumentation. Physiological, biochemical and pharmacological mechanisms of PET radiopharmaceuticals. Radiation safety and protection. Clinical PET imaging in neurological, cardiovascular, oncological and psychiatric disorders. Image reconstruction and display protocols. Case study presentations and journal review. Prerequisites: Diagnostic Medical Imaging Nuclear Medicine 2202 and 2211 or consent of instructor (2 lecture hours, 2 lab hours)

DIAGNOSTIC MEDICAL IMAGING NUCLEAR MEDICINE 2222 Nuclear Medicine Review Seminar

1 credit hour

Prepares students for the Nuclear Medicine Technology Certification Board Examination (NMTCB). Test-taking tips and practice exams. Practical application of patient care, human anatomy and physiology, pathology, radiation biology, radiation protection, physics, instrumentation, radiopharmacy, in vivo and in vitro procedures, Diagnostic and Therapeutic Nuclear Medicine procedures, Positron Emission Tomography. Students will complete a registry review project and a mock registry. Prerequisites: Diagnostic Medical Imaging Nuclear Medicine 2202 and 2211 or consent of instructor (1 lecture hour)

This certificate program has special admission requirements and a separate application process in addition to that required by College of DuPage. Admission to the program is required to enroll in all of the Nuclear Medicine Technology courses. Space in the program is limited and the number of applications exceeds the number of positions available. For further information, call Joanne Metler at (630) 942-3065.

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 1100 Introduction and Fundamentals of Medical Imaging 2 credit hours

An introduction and overview of the fundamentals of diagnostic medical imaging in the disciplines of Radiography, Diagnostic Medical Sonography, Nuclear Medicine Technology, Computed Tomography, Magnetic Resonance Imaging, Positron Emission Tomography, Mammography, and Bone Mineral Densitometry for nonmajors. Includes the history, basic theories, history and development of each discipline, educational requirements, employment skills, national certification examinations and professional associations. The course also requires a service learning component outside of scheduled class. (2 lecture hours)

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 1111 Clinical Education I

2 credit hours

Applied radiography at assigned clinical education setting. Satisfies the clinical objectives and competency requirements listed in the Radiography Program Design for the first semester. Prerequisite: Admission to program and consent of instructor

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 1112 Clinical Education II

2 credit hours

Applied radiography at assigned clinical education centers. Satisfies the clinical objectives and competency requirements as specified in the Radiologic Program Design for the second semester. Prerequisites: Diagnostic Medical Imaging Radiography 1111 and 1131 with a grade of "C" or better and consent of instructor

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 1113 Clinical Education III

2 credit hours

Applied radiography at assigned clinical education centers. Satisfies the clinical objectives and competency requirements as specified in the Radiologic Program Design. Prerequisites: Diagnostic Medical Imaging Radiography 1112, 1121 and 1132 with a grade of "C" or better and consent of instructor

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 1121 Radiographic Equipment

4 credit hours

Elementary physical principles, including systems of measurement, classical mechanics, structure of matter, electricity and magnetism, X-ray production, X-ray circuits, and radiographic and fluoroscopic systems. Prerequisites: Diagnostic Medical Imaging Radiography 1111 and 1131 with a grade of "C" or better or consent of instructor (4 lecture hours)

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 1122 Image Formation and Evaluation

4 credit hours

Advanced principles and applications of radiographic equipment. Radiographic image production, image quality,

film processing, analog image receptors, digital image receptors and production and control of scattered radiation. Prerequisites: Diagnostic Medical Imaging Radiography 1112, 1121 and 1132 with a grade of "C" or better or consent of instructor (3 lecture hours, 2 lab hours)

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 1131 Radiographic Procedures I

4 credit hours

Radiographic patient care, terminology, routine radiographic positioning and radiographic image evaluation of the thorax, abdomen and urinary tract. Prerequisite: Admission to Diagnostic Medical Imaging Radiography program and consent of instructor (3 lecture hours, 2 lab hours)

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 1132 Radiographic Procedures II

3 credit hours

Routine radiographic positioning and radiographic image evaluation of the upper and lower extremities, bony thorax and digestive system. Prerequisites: Diagnostic Medical Imaging Radiography 1111 and 1131 with a grade of "C" or better or consent of instructor (2 lecture hours, 2 lab hours)

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 1133 Radiographic Procedures III

3 credit hours

Routine and special projections/methods of radiographic positioning and radiographic image evaluation of the head and neck, spine and pelvis. Prerequisites: Diagnostic Medical Imaging Radiography 1112, 1121 and 1132 with a grade of "C" or better or consent of instructor (2 lecture hours, 2 lab hours)

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 1140 Ethics and Law in Diagnostic Medical Imaging

1 credit hour

Provides a fundamental background in medical ethics and law specific to diagnostic medical imaging. Students will use actual case studies and clinical scenarios for application of topics discussed. Prerequisites: Diagnostic Medical Imaging Radiography 1113, 1122 and 1133 with a grade of "C" or better or consent of instructor (1 lecture hour)

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 1151 Basic Pharmacology

1 credit hour

Basic concepts of pharmacology, drug classification, indications and the types of reactions to diagnostic contrast agents and intravenous medications. Included are the theory of venipuncture and appropriate patient care during these procedures. Prerequisites: Diagnostic Medical Imaging Radiography 1140 and 2211 with a grade of "C" or better or consent of instructor (1 lecture hour)

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 2101 **Cross-Sectional Anatomy**

2 credit hours

Basics of cross-sectional anatomy related to lesion localization in radiation therapy, normal sectional anatomy as shown in diagrams and radiographic, sonographic, computerized tomography (CT), nuclear medicine and magnetic resonance (MR) images. Prerequisites:

Admission to Radiation Therapy program and consent of instructor (2 lecture hours)

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 2102 Pathophysiology for Radiation Therapy

3 credit hours

Introduces basic disease concepts, theories of disease causation, and system-by-system pathophysiologic disorders most frequently encountered in clinical practice. The processes involved in the development and classification of both benign and malignant tumors and site-specific information on malignant tumors are addressed. Prerequisites: Diagnostic Medical Imaging Radiography 2101, 2111, 2301 and 2310 with a grade of "C" or better and consent of instructor (3 lecture hours)

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 2103 **Operational Issues in Radiation Therapy**

3 credit hours

Focuses on various radiation therapy operational issues. Addresses concepts of team practice, patient-centered clinical practice and professional development. The interrelatedness of standards of care, law, ethical standards and competence are also examined. Prerequisites: Admission to program, ARRT certification and Diagnostic Medical Imaging Radiography 2102, 2112, 2302 and 2311 with a grade of "C" or better (3 lecture hours)

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 2111 Clinical Practice I

3 credit hours

Provides sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in radiation therapy. Through structured sequential assignments in clinical facilities, concepts of team practice, patient-centered clinical practice and professional development are discussed, examined and evaluated. Prerequisites: Admission to Radiation Therapy program and consent of instructor

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 2112 Clinical Practice II

3 credit hours

Expands the skills learned in Diagnostic Medical Imaging Radiography 2111. Through structured sequential assignments in clinical facilities, concepts of team practice, patient-centered clinical practice and professional development are discussed, examined and evaluated. Prerequisites: Admission to program, ARRT certification and Diagnostic Medical Imaging Radiography 2111 with a grade of "C" or better

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 2113 Clinical Practice III

3 credit hours

Advanced integration of skills learned in Diagnostic Medical Imaging Radiography 2111 and 2112. Through structured sequential assignments in clinical facilities, concepts of team practice, patient-centered clinical practice and professional development are discussed, examined and evaluated. Prerequisites: Diagnostic Medical Imaging Radiography 2311, 2102, 2302 and 2112 with a grade of "C" or better and consent of instructor

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 2200 Clinical Applications of Mammography

2 credit hours

Experience in the performance of mammography exams, including patient preparation and education, interventional procedures and the required quality control tests described by the American College of Radiology (ACR) Mammography Quality Control Manual. Designed to meet or exceed the minimum competency requirements for certification by the American Registry of Radiologic Technologists (ARRT). Prerequisites: Admission to program and ARRT certification

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 2201 Radiation Physics, Biology and Protection

3 credit hours

Advanced radiological physics, including interactions with matter, electromagnetic radiation, particulate radiation, radioactivity, radiation monitoring instruments and dosage units. Also included are the biological effects of ionizing radiation as well as sections on nuclear medicine, radiation therapy and the most recent radiation protection rules and regulations. Prerequisites: Diagnostic Medical Imaging Radiography 1140 and 2211 with a grade of "C" or better or consent of instructor (3 lecture hours)

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 2202 Breast Anatomy, Physiology and Pathology

1 credit hour

Establishment of baseline knowledge in breast anatomy and physiology. Correlation between breast anatomic structures and mammographic anatomic structures. Introduction to breast viability, benign and cancerous pathology, and mammographic appearance. Prerequisite: Admission to program (1 lecture hour)

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 2203 Mammography Principles and Procedures

2 credit hours

Introduction to technologist-performed physical breast assessment. Preliminary patient assessment, physical breast assessment, and documentation of findings required for a comprehensive examination for imaging correlation of the breasts. A knowledge base of the various positions and projections in mammography along with the clinical data needed to perform the exam and positioning techniques for both screening and diagnostic mammography, including interventional procedures. Prerequisite: Admission to program (1 lecture hour, 2 lab hours)

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 2204 Mammography Quality Management and Instrumentation 2 credit hours

Introduction to mammography equipment along with mandated requirements governing use and factors that influence the production and recording of mammographic images. Accreditation and service delivery standards included. Prerequisite: Admission to program (2 lecture hours)

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 2211 Clinical Education IV

3 credit hours

Applied radiography at assigned clinical education centers. Satisfies the clinical objectives and competency

requirements as specified in the Radiography Program Design. Prerequisites: Diagnostic Medical Imaging Radiography 1113, 1122 and 1133 with a grade of "C" or better and consent of instructor

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 2212 Clinical Education V

3 credit hours

Applied radiography at assigned clinical education centers. Satisfies the clinical objectives and competency requirements as specified in the Radiography Program Design. Prerequisites: Diagnostic Medical Imaging Radiography 1140 and 2211 with a grade of "C" or better and consent of instructor

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 2213 Clinical Education VI

3 credit hours

Applied radiography at assigned clinical education centers. Satisfies the clinical objectives and competency requirements as specified in the Radiography Program Design. Prerequisites: Diagnostic Medical Imaging Radiography 1151, 2201, 2212 and 2225 with a grade of "C" or better and consent of instructor

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 2220 **Sectional Anatomy for Diagnostic Imaging**

2 credit hours

Study of human anatomy as demonstrated in sectional planes seen in Computed Tomography (CT), Positron Emission Tomography (PET) and Magnetic Resonance Imaging (MRI). Comparison of planar anatomy to sectional anatomy through the use of diagrams and radiologic images. Emphasis is on anatomy of the head, neck, spine, thorax, abdomen, pelvis and musculoskeletal system. Prerequisite: American Registry of Radiologic Technolgists Certification and/or Nuclear Medicine Certification or consent of instructor (2 lecture hours)

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 2225 Basic Pathophysiology

3 credit hours

Basic concepts of pathology and the causes of disease in the body systems that are illustrated with diagnostic medical imaging disciplines. Included are radiographic interpretation, imaging techniques using the disciplines of Radiography primarily with new digital imaging systems, Computed Tomography, Magnetic Resonance Imaging, and also pathology illustrated using Medical Sonography, Nuclear Medicine Technology and Positron Emission Tomography. Culminates with a major project of a pathology research paper and an accompanying pathology poster display using diagnostic medical imaging disciplines. Prerequisites: Diagnostic Medical Imaging Radiography 1140 and 2211 with a grade of "C" or better or consent of instructor (3 lecture hours)

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 2226 Advanced Pathophysiology

1 credit hour

Advanced study of pathophysiology in diagnostic medical imaging of the heart and vascular system, the hematopoietic system, central nervous system and the endocrine system. Included are radiographic interpretation, imaging techniques using the disciplines of

Radiography primarily with new digital imaging systems, Computed Tomography, Magnetic Resonance Imaging, and also pathology illustrated using Diagnostic Medical Sonography, Nuclear Medicine Technology and Positron Emission Tomography. Prerequisite: Consent of instructor (1 lecture hour)

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 2235 Quality Management in Diagnostic Imaging 2 credit hours

Teaches the student the advanced technical aspects of quality assurance and quality management. Includes analog film processing, digital image processing as well as radiographic equipment. Focus is on practical applications in the radiology department. Prerequisites: Diagnostic Medical Imaging Radiography 1151, 2201, 2212 and 2225 with a grade of "C" or better or consent of instructor (1 lecture hour, 2 lab hours)

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 2240 Radiographic Image Analysis

3 credit hours

Systematic approach for evaluating radiographic images to determine diagnostic quality. Review and correlation of previous subjects. Prerequisites: Diagnostic Medical Imaging Radiography 2212 and 2225 with a grade of "C" or better and/or consent of instructor (3 lecture hours)

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 2280 Radiography Review Seminar

1 credit hour

Overview of Radiography coursework in preparation for the national certification examination of the American Registry of Radiologic Technologists (ARRT) based on the content specifications. Content areas included are: radiation protection, equipment operation and maintenance, image production and evaluation, radiographic procedures and patient care. Strategies in testing, test anxiety and the computer-based test are included in the course. Prerequisite: Graduate of a Radiologic Technology program or consent of instructor (1 lecture hour)

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 2301 Principles and Practice of Radiation Therapy I 4 credit hours

Provides an overview of cancer and the specialty of radiation therapy. The medical, biological and pathological aspects as well as the physical and technical aspects are discussed. Roles and responsibilities of the radiation therapist, the treatment prescription, the documentation of treatment parameters and delivery are also discussed. Prerequisites: Admission to Radiation Therapy program and consent of instructor (4 lecture hours)

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 2302 Principles and Practice of Radiation Therapy II 4 credit hours

Examines the management of neoplastic disease from a multidisciplinary perspective. The epidemiology, etiology, detection, diagnosis, patient condition, treatment and prognosis of neoplastic disease are presented, discussed and evaluated in relationship to histology, anatomical site and patterns of spread. The radiation therapist's responsibility in the management of neoplastic disease is examined and linked to the skills required to analyze complex issues and make informed decisions.

Prerequisites: Diagnostic Medical Imaging Radiography 2101, 2111 and 2301 with a grade of "C" or better and consent of instructor (4 lecture hours)

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 2303 Principles and Practice of Radiation Therapy III 4 credit hours

Establishes factors that influence and govern clinical planning of patient treatment. Encompassed are isodose descriptions, patient contouring, radiobiologic considerations, dosimetric calculations, compensation and clinical application of treatment beams. Optimal treatment planning is emphasized along with particle beams. Stereotactic and emerging technologies are presented. Prerequisites: Diagnostic Medical Imaging Radiography 2102, 2112, 2302 and 2311 with a grade of "C" or better and consent of instructor (4 lecture hours)

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 2310 Radiation Therapy Physics

3 credit hours

Establishes a basic knowledge of physics necessary to develop an understanding of radiation used in the clinical setting, and to develop a knowledge base in factors that govern and influence the production and recording of radiographic images for patient simulation, treatment planning and treatment verification in radiation oncology. Fundamental physical units, measurements, types of radiation, fundamentals of X-ray generating equipment, Xray production, radiation oncology imaging equipment and related devices are emphasized. Prerequisites: Consent of instructor and admission to Radiation Therapy program (3 lecture hours)

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 2311 Radiation Biology and Protection

4 credit hours

Presents basic concepts and principles of radiation biology and radiation safety as they relate to radiation therapy. The interactions of radiation with cells, tissues and the body as a whole and resultant biophysical events are presented. Radiation health and safety requirements of federal and state regulatory agencies, accreditation agencies and health care organizations are also incorporated. Prerequisites: Diagnostic Medical Imaging Radiography 2101, 2111, 2301 and 2310 with a grade of "C" or better and consent of instructor (4 lecture hours)

DIAGNOSTIC MEDICAL IMAGING RADIOGRAPHY 2312 **Quality Management in Radiation Therapy** 3 credit hours

Focuses on the evolution of quality management (QM) programs and continuing quality improvements in radiation oncology. Topics include the need for quality assurance (QA) checks; QA of the clinical aspects and chart checks; film checks; the various types of evaluations and tests performed on simulators, megavoltage therapy equipment and therapy planning units; the role of radiation therapists in QM programs; legal and regulatory implications for maintaining appropriate QM guidelines as well as the role of computers and information systems within the radiation oncology department. Prerequisites: Admission to program and ARRT certification; Diagnostic Medical Imaging Radiography 2102, 2112, 2302 and 2311 with a grade of "C" or better (3 lecture hours)

The Radiography, Radiation Therapy and Mammography programs have special admission requirements and separate application processes in addition to those required by College of DuPage. Admission to these programs is required to enroll in all Diagnostic Medical Imaging Radiography courses. Space in those programs is limited and the number of applications exceed the number of positions available.

For information about the Diagnostic Medical Imaging Radiography program, call Gina Carrier at (630) 942-2434.

For information about the Radiation Therapy program, call Jeff Papp at (630) 942-2074.

For information about the Mammography program, call Pam Jankovsky at (630) 942-2349.

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 1100 *Introduction to Diagnostic Medical Sonography* 4 credit hours

History of ultrasound including medical applications. Description of the roles, responsibilities and rules of the diagnostic medical sonographer. Introduction to the fundamental principles of the use and maintenance of ultrasound equipment. Indications of diagnostic sonography procedures, positioning, safety and image processing. Ethical issues in an ultrasound department. Prerequisite: Formal admission to the Diagnostic Medical Imaging Sonography program or consent of the program coordinator (3 lecture hours, 2 lab hours)

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 1101 **Sonographic Physics and Instrumentation I** 4 credit hours

Introduction to physics of acoustics and sonographic instrumentation. Production and types of sound waves discussed. Demonstration of propagation of ultrasound through tissues, transducers, pulse-echo instruments and display methods. Prerequisite: Formal admission to the Diagnostic Medical Imaging Sonography program or consent of program coordinator (3 lecture hours, 2 lab hours)

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 1102 **Sonographic Physics and Instrumentation II** 4 credit hours

Continuation of pulse-echo instrumentation, including harmonics, image artifacts and color flow imaging with Doppler instrumentation. Bioeffects and safety in ultrasound imaging. Quality management applied to Sonography. Prerequisites: Diagnostic Medical Imaging Sonography 1100 and 1101 or consent of program coordinator (3 lecture hours, 2 lab hours)

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 1105 *Introduction to Pathophysiology for Sonographers* 2 credit hours

Introduction to concepts of pathophysiology and causes of disease in the body systems. Cases are illustrated with

diagnostic medical sonography and other medical imaging disciplines. Included are medical image interpretation, imaging techniques with Sonongraphy, digital imaging systems, Computed Tomography, Magnetic Resonance Imaging, Nuclear Medicine and Radiography. (2 lecture hours)

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 1111 Clinical Education I

1 credit hour

Supervised clinical training in a health care institution or clinic in abdominal, superficial structures, obstetrical and gynecologic imaging procedures. Students will observe, assist and perform various patient imaging procedures taught in the classroom. Focus of this course is on clinical skills, professionalism and correct hospital procedures and policies. Prerequisite: Formal admission to the Diagnostic Medical Imaging Sonography program or consent of the program coordinator

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 1112 Clinical Education II

3 credit hours

Continuation of Diagnostic Medical Imaging Sonography clinical experience in a health care institution.

Reinforcement and broadening of knowledge gained in Clinical Education I. Correlation and application of skills learned in Diagnostic Medical Imaging Sonography 1102, 1121 and 1131. Technical and professional aspects of patient scanning in obstetrics, pelvic, abdominal and superficial structures. Prerequisites: Diagnostic Medical Imaging Sonography 1100, 1101, 1111 and 1120 or consent of program coordinator (24 lab hours)

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 1113 Clinical Education III

3 credit hours

Continuation of Diagnostic Medical Imaging Sonography clinical experience in a health care institution.

Reinforcement and broadening of knowledge gained in Diagnostic Medical Imaging Sonography 1112. Correlation and application of skills learned in Diagnostic Medical Imaging Sonography 1122 and 1132. Technical and professional aspects of patient scanning in obstetrics, pelvic, abdominal and superficial structures. Prerequisites: Diagnostic Medical Imaging Sonography 1102, 1112, 1121 and 1131 or consent of program coordinator (24 lab hours)

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 1114 Clinical Education IV

3 credit hours

Continuation of Diagnostic Medical Imaging Sonography clinical experience in a health care institution.

Reinforcement and broadening of knowledge gained in Diagnostic Medical Imaging Sonography 1113. Correlation and application of skills learned in Diagnostic Medical Imaging Sonography 1142. Technical and professional aspects of patient scanning in obstetrics, pelvic, abdominal superficial structures. Prerequisites: Diagnostic Medical Imaging Sonography 1113, 1122 and 1132 or consent of program coordinator (24 lab hours)

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 1120 Sonographic Cross-Sectional Anatomy

4 credit hours

Introduction to the basics of cross-sectional anatomy as interpreted on diagnostic sonographic images. Sectional human anatomy in the transverse, sagittal and coronal planes. Correlation of anatomy with cadavers and ultrasound images. Prerequisite: Admission to the Diagnostic Medical Imaging Sonography program and/or consent of program coordinator (3 lecture hours, 2 lab hours)

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 1121 Fundamentals of OB/GYN I

4 credit hours

Ultrasound evaluation of the female pelvis and reproductive system. Introduction to imaging in the first and second trimester of pregnancy and gynecology. Ultrasound films of normal anatomy and pathology. Ultrasound appearance of the cervix, utereus, fallopian tubes, ovaries, placenta and fetus. Techniques and management of gynecologic infertility and post menopausal women. Prerequisites: Diagnostic Medical Imaging Sonography 1100, 1101 and 1120 or consent of program coordinator (3 lecture hours, 2 lab hours)

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 1122 Fundamentals of OB/GYN II

4 credit hours

Advanced fetal ultrasound techniques in the second and third trimester. Demonstration of multiple gestations, antenatal syndromes, congenital fetal disorders, placenta, umbilical cord and membranes. Fetal growth assessment and management of growth disorders. Prerequisites: Diagnostic Medical Imaging Sonography 1112, 1121 and 1141 or consent of program coordinator (2 lecture hours, 2 lab hours)

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 1131 Abdomen/Superficial Structures I

4 credit hours

Introduction to abdominal cross-sectional anatomy and ultrasound. Vascular and abdominal organs systems discussed with normal and pathologic conditions, Ultrasound evaluation of upper abdominal organs include liver, gallbladder and biliary tree, spleen, pancreas, great vessels, scrotum, prostate and urinary tract. Introduction to pathologic sonographic appearances of the abdomen. Prerequisites: Diagnostic Medical Imaging Sonography 1100, 1101, 1111 and 1120 or consent of program coordinator (3 lecture hours, 2 lab hours)

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 1132 Abdomen/Superficial Structures II

4 credit hours

Continuation of anatomy and pathology of the abdominal and superficial structures in ultrasound imaging. Areas include: thyroid, parathyroid, breast, neck, thorax, gastrointestinal tract, musculoskeletal system, extracranial vessels and neonatal brain. Introduction of color flow Doppler techniques. Prerequisites: Diagnostic Medical Imaging Sonography 1112, 1131 and 1141 or consent of program coordinator (3 lecture hours, 2 lab hours)

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 1140 Fundamentals of Breast Sonography

2 credit hours

Principles and fundamentals of breast sonography. Exploration of physics of sonography as it relates to normal and abnormal breast tissue and anatomy. Correlation with other imaging modalities and surgical techniques in breast pathology. Prerequisites: Concurrent enrollment in Diagnostic Medical Imaging Sonography 1122 or Registered Diagnostic Medical Sonographer (ARDMS) or Registered Radiologic Technologist (ARRT) (2 lecture hours)

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 1141 Case Study Critique I

1 credit hour

Critical analysis of anatomical variants, normal and pathological sonographic findings in diagnostic ultrasound case presentations. Reference to imaging technique, positioning and patient care. Sonographic cases presented with procedures described in Diagnostic Medical Imaging Sonography 1121, 1131, 1122 and 1132. Prerequisites: Diagnostic Medical Imaging Sonography 1101 and 1111 or consent of program coordinator or concurrent enrollment in Diagnostic Medical Imaging Sonography 1121 and 1131 (1 lecture hour)

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 1142 Case Study Critique II

1 credit hour

Continuation of critical analysis of anatomical variants, normal and pathological sonographic findings in diagnostic ultrasound case presentations. Reference to imaging technique, positioning and patient care. Sonographic cases presented with procedures described in Diagnostic Medical Imaging Sonography 1122 and 1132. Prerequisites: Concurrent enrollment in Diagnostic Medical Imaging Sonography 1122 and 1132 or consent of program coordinator (1 lecture hour)

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 1151 Abdominal/Superficial Structures and Obstetrics/Gynecology Hands-on Scanning Lab I 1 credit hour

Overview and emphasis of principles taught in Diagnostic Medical Imaging Sonography 1100 in Abdominal/Superficial Structures and Obstetrics/Gynecology. Students perform hands-on scanning techniques in the scanning lab. Various scanning techniques are demonstrated on fellow students under the guidance of the instructor. Proper techniques in manipulating the transducer probe are demonstrated. Identification of organ systems and corresponding ultrasound images. Prerequisite: Formal admission to Diagnostic Medical Imaging Sonography program or consent of the program coordinator (2 lab hours)

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 1152 Abdominal/Superficial Structures and Obstetrics/Gynecology Hands-on Scanning Lab II 2 credit hours

Continuation of principles taught in Diagnostic Medical Imaging Sonography 1151 in Abdominal/Superficial Structures and Obstetrics/Gynecology. Students perform advanced hands-on scanning techniques in the scanning lab. Techniques are demonstrated on fellow students and volunteer patients under the guidance of the instructor.

Proper techniques in manipulating the transducer probe are demonstrated. Identification of organ systems and corresponding ultrasound images. Prerequisite: Diagnostic Medical Imaging Sonography 1151 or consent of instructor (4 lab hours)

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 1153 Abdominal/Superficial Structures and Obstetrics/Gynecology Hands-on Scanning Lab III 2 credit hours

Continuation of principles taught in Diagnostic Medical Imaging Sonography 1152 in Abdominal/Superficial Structures and Obstetrics/Gynecology. Emphasis placed on advanced skills in obstetrical scanning. Students perform hands-on scanning techniques on volunteer patients under the guidance of the instructor. Proper techniques in manipulating the transducer probe are demonstrated. Identification of organ systems and corresponding ultrasound images. Prerequisite: Diagnostic Medical Imaging Sonography 1152 (4 lab hours)

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 1154 Abdominal/Superficial Structures and Obstetrics/Gynecology Hands-on Scanning Lab IV 1 credit hour

Continuation of principles taught in DMIS 1151, 1152 and 1153 in Abdominal/Superficial Structures and Obstetrics/ Gynecology. Emphasis will be placed on students demonstrating their scanning skills to their instructors and fellow students. Identification of organ systems and corresponding ultrasound images will be emphasized. Prerequisites: Concurrent enrollment in Diagnostic Medical Imaging Sonography 2280 and 2285 (2 lab hours)

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 1160 Legal Aspects of Health Care in Sonography 2 credit hours

Legal principles of health care in Sonography. Exploration of medical law cases reviewing standard of care, negligence, liability, malpractice insurance, depositions, trials and verdicts. Individual occurrences will be highlighted to avoid and protect from future lawsuits. Prerequisites: Concurrent enrollment in Diagnostic Medical Imaging Sonography 2280 and 2285 or a Registered Diagnostic Medical Sonographer (2 lecture hours)

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 2200 Vascular Hemodynamics and Physics

2 credit hours

A review of the circulatory system blood as fluid and how blood circulates. A description of the various forms of energy and how they affect blood movement will be covered. The principles of blood movement, conduits and circulation will be examined along with laboratory demonstration of these principles. The Doppler effect and the Doppler will be explained and applied. Various Doppler Instruments used to assess blood flow in vascular ultrasound will be reviewed and utilized in class and lab. (1 lecture hour, 2 lab hours)

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 2201 Abdominal and Peripheral Arterial I

3 credit hours

Review and evaluation of blood vessels, their purpose and composition along with detailed physiology of the arterial

blood flow system. Arterial anatomy of the abdomen, pelvic and upper extremities as well as the lower extremities are reviewed. Diseases of the arterial system along with their effects are addressed with indications for ultrasound arterial examinations. Prerequisite: Taken concurrently with Diagnostic Medical Imaging Sonography 2221 or consent of program coordinator (2 lecture hours)

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 2203 Cerebrovascular Ultrasound

2 credit hours

Overview of the purpose and composition of blood vessels and the physiology of the cerebrovascular system. Cerebrovascular anatomy is reviewed. Disease of the cerebrovascular system are addressed with the indications for ultrasound cerebrovascular examinations. A review and demonstration of cerebrovascular ultrasound testing and findings and other laboratory modalities. Treatments for various diseases of the cerebrovascular system are addressed. Cerebrovascular testing as a part of ongoing, post-intervention patient management are included. Prerequisites: Concurrent enrollment in Diagnostic Medical Imaging Sonography 2223 or consent of program coordinator (2 lecture hours)

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 2204 Abdominal and Peripheral Venous

2 credit hours

Overview of the purpose and composition of blood vessels and the physiology of the venous blood flow system. Venous anatomies of the abdomen, pelvis, upper extremities, as well as the lower extremities are addressed. Diseases of the venous system, their effects and indications for ultrasound venous examinations are included. An overview of the abdominal and peripheral venous ultrasound testing, their findings and other laboratory modalities. Treatments for various diseases of abdominal and peripheral venous systems are reviewed. Prerequisite: Concurrent enrollment in Diagnostic Medical Imaging Sonography 2224 or consent of program coordinator (2 lecture hours)

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 2212 Clinical Education – Vascular Imaging I

3 credit hours

Supervised clinical training in a health care institution or clinic in the vascular imaging skills taught in the classroom. Students will observe, assist and perform various patient imaging procedures. The focus of this course is on clinical skills, professional and correct hospital procedures and policies. Prerequisite: Admission to the program (24 lab hours)

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 2213 Clinical Education – Vascular Imaging II

3 credit hours

Supervised clinical training in a health care institution or clinic in the vascular imaging skills taught in the classroom. Students observe, assist and perform various patient imaging procedures. The focus of this course is clinical skill, professionalism and correct hospital procedures and policies. This course builds upon those skills learned in the classroom and Diagnostic Medical Imaging Sonography 2212. Prerequisite: Completion of Diagnostic Medical Imaging Sonography 2212 with a grade of "C" or better (24 lab hours)

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 2221 Abdominal and Peripheral Arterial Hands-on Scanning Lab I

1 credit hour

An overview of abdominal and peripheral arterial ultrasound testing that offers hands-on training in the classroom with vascular ultrasound equipment. Application of principles taught in Diagnostic Medical Imaging Sonography 2201. Various arterial testing techniques and scanning are demonstrated and performed on fellow students under the guidance of the instructor. Proper techniques in these testing modalities are reviewed along with proper identification of the arterial system. Prerequisite: Concurrent enrollment in Diagnostic Medical Imaging Sonography 2201 (2 lab hours)

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 2222 Abdominal and Peripheral Arterial Hands-on Scanning Lab-2

1 credit hour

Continuation of Diagnostic Medical Imaging Sonography 2221 that provides a further understanding of abdominal and peripheral arterial ultrasound testing by offering handson training in the classroom with vascular ultrasound equipment. This course is taught in conjunction with Diagnostic Medical Imaging Sonography 2202. Under the guidance of the instructor, students will practice these techniques on fellow students. Proper techniques in these testing modalities will be reviewed along with proper identification of the arterial system. Prerequisites: Diagnostic Medical Imaging Sonography 2201 and concurrent enrollment in Diagnostic Medical Imaging Sonography 2202 (2 lab hours)

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 2223 Cerebrovascular Ultrasound Hands-on Scanning Lab 1 credit hour

Continuation of Diagnostic Medical Imaging Sonography 2203 that provides a further understanding of cerebrovascular ultrasound testing by offering hands-on training in the classroom with vascular ultrasound equipment. Various cerebrovascular testing techniques and scanning are demonstrated to the students. Under the guidance of the instructor, students will practice these techniques on fellow students. Proper techniques in these testing modalities will be reviewed along with proper identification of the cerebrovascular system. Prerequisite: Concurrent enrollment in Diagnostic Medical Imaging Sonography 2203 (2 lab hours)

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 2224 Abdominal and Peripheral Venous Hands-on Scanning Lab 1 credit hour

Continuation of Diagnostic Medical Imaging Sonography 2204 that provides an understanding of abdominal and peripheral venous ultrasound testing by offering hands-on training in the classroom with vascular ultrasound equipment. Various venous testing techniques and scanning are demonstrated to the students. Under the guidance of the instructor the students will practice these techniques on fellow students. Proper techniques in these testing modalities are reviewed along with proper identification of the venous system. Prerequisite: Concurrent enrollment in Diagnostic Medical Imaging Sonography 2204 (2 lab hours)

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 2280 Sonographic Physics Registry and Review

1 credit hour

Intensive review of topics taught in Diagnostic Medical Imaging Sonography 1101 and 1102. Preparation for taking the American Registry of Diagnostic Medical Sonography certificate examination. Review of physical principles of sound and sonographic instrumentation. Principles of propagation of ultrasound through tissues, transducers, pulse-echo instruments, image storage and display. Review of Doppler ultrasound, image artifacts and quality management. Prerequisite: Diagnostic Medical Imaging Sonography 1102 or consent of program coordinator (1 lecture hours)

DIAGNOSTIC MEDICAL IMAGING SONOGRAPHY 2285 Clinical Sonographic Registry and Review

1 credit hour

Intensive review of topics taught in Diagnostic Medical Imaging Sonography 1100, 1121, 1122, 1131 and 1132. Preparation for taking the American Registry of Diagnostic Medical Sonography certification examination. Review of Diagnostic Medical Sonography applications in the specialties of abdominal/superficial structures and obstetrics/gynecology. Prerequisites: Diagnostic Medical Imaging Sonography 1121, 1122, 1131 and 1132 or consent of program coordinator (1 lecture hours)

EARLY CHILDHOOD EDUCATION AND CARE

EARLY CHILDHOOD EDUCATION AND CARE 1100 Introduction to the Early Childhood Profession 3 credit hours

An introduction to the field of Early Childhood Education and Care, including the history of early childhood education and the various types and components of current early childhood and care programs. Ways that early childhood programs support the development of children and the professional roles and responsibilities of the early childhood educator are explored. (2 lecture hours, 2 lab hours)

EARLY CHILDHOOD EDUCATION AND CARE 1101 Growth and Development of the Young Child

3 credit hours

An overview of all aspects of child growth and development from conception through adolescence. Child development theory, principles of sequential growth with emphasis on the significance of family, peers, school and culture. (2 lecture hours, 2 lab hours)

EARLY CHILDHOOD EDUCATION AND CARE 1102 Child Guidance Practices

3 credit hours

A study of guidance practices that support the development of the young child, including the relationship of developmental theories to guidance practices. Lab experiences provide practice in observation, reflection and interaction with young children. Prerequisites: Early Childhood Education and Care 1100 and 1101 (2 lecture hours, 2 lab hours)

EARLY CHILDHOOD EDUCATION AND CARE 1110 Parenting and the Young Child

2 credit hours

A practical analysis of parent-child interaction with emphasis on understanding developmental tasks of the early childhood years. Motivation and guidance as applied to child and parent are explored. (1 lecture hour, 2 lab hours)

EARLY CHILDHOOD EDUCATION AND CARE 1116 Care of the Infant, Toddler and Two-Year-Old Child I 3 credit hours

Introduction to theories and research related to the development of infant, toddler and 2-year-old children. Ways of providing a safe, stimulating and nurturing environment that fosters the optimum growth and development of the individual child are examined. Thirty hours laboratory work of group care of children aged six weeks to 36 months are required. (2 lecture hours, 2 lab hours)

EARLY CHILDHOOD EDUCATION AND CARE 1117 Care of the Infant, Toddler and Two-Year-Old Child II 3 credit hours

Continuation of the study of development, education and care of infant, toddler and 2-year-old children. The teacher's role in providing an environment that fosters the optimum growth and development of the individual child is examined. Thirty hours of laboratory work in group care of children aged six weeks to 36 months are required. Prerequisite: Early Childhood Education and Care 1116 or 1101 (2 lecture hours, 2 lab hours)

EARLY CHILDHOOD EDUCATION AND CARE 1120 Family Child Care Management

2 credit hours

This course includes the practical consideration of issues and responsibilities in providing family child care for infants and young children. (1 lecture hour, 2 lab hours)

EARLY CHILDHOOD EDUCATION AND CARE 1121 Family Child Care Curriculum and Guidance 2 credit hours

Specialized knowledge and skills for family child care providers. Curriculum and guidance skills appropriate for the multi-age groups of children in family child care. (1 lecture hour, 2 lab hours)

EARLY CHILDHOOD EDUCATION AND CARE 1130 Methods: Discovery and the Physical World 3 credit hours

An overview of experiences and methods for helping children learn about the physical world. Emphasizes the adult's responsibilities in the implementation of nature, science, blocks, mathematics, motor coordination, cooking and the sensory activities. Prerequisite: Early Childhood Education and Care 1101 (2 lecture hours, 2 lab hours)

EARLY CHILDHOOD EDUCATION AND CARE 1140 *Methods: Self-Expression and the Social World* 3 credit hours

An overview of a wide variety of experiences and methods for developing children's self-expression and helping them learn about the social world. Emphasizes the adult's responsibilities in the implementation of literacy, dramatic play, art, construction, social studies, music and movement. Prerequisite: Early Childhood Education and Care 1101 (2 lecture hours, 2 lab hours)

EARLY CHILDHOOD EDUCATION AND CARE 1151 Language and Literacy Development of the Young Child 3 credit hours

An introduction to speech and language development of young children and teaching practices that support language and literacy development. Typical and atypical language development and the factors that influence that development are emphasized. The role of the teacher in supporting language and planning and implementing developmentally appropriate activities and instructional materials is included. Prerequisite: Early Childhood Education and Care 1101 (2 lecture hours, 2 lab hours)

EARLY CHILDHOOD EDUCATION AND CARE 1161 Multicultural Curriculum for the Young Child 2 credit hours

Introduction to multicultural curriculum activities, materials and environments for young children. Special emphasis on applying multicultural education principles to curriculum planning. (1 lecture hour, 2 lab hours)

EARLY CHILDHOOD EDUCATION AND CARE 1162 Multicultural Perspectives in Child Development and Education

2 credit hours

Exploration of multicultural perspectives of child care and development. Emphasis on cultural and family factors that shape and influence the contexts in which young children develop. (1 lecture hour, 2 lab hours)

EARLY CHILDHOOD EDUCATION AND CARE 1163 Practicum: At-Risk Early Childhood Programs 1 credit hour

Daily participation in an at-risk early childhood program for young children. Students will assist teachers in the program under the supervision of a faculty supervisor. Students apply knowledge and practice skills gained in child care classes. Seventy-five hours of practicum required. Prerequisites: Early Childhood Education and Care 1102, 1161 and 1162 or consent of instructor (5 lab hours)

EARLY CHILDHOOD EDUCATION AND CARE 1820 Selected Topics in Early Childhood Education and Care I 1 credit hour

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. Prerequisite: This course is designed for students nearing completion of the Early Childhood Education and Care program or for child care practitioners. Students should have attained minimum Department of Children and Family Services credit hours for a child care director position before enrolling in the course. (1 lecture hour)

EARLY CHILDHOOD EDUCATION AND CARE 1840 Independent Study – Individualized

1 to 4 credit hours

Exploration and analysis of topics within Early Childhood Education and Care to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

EARLY CHILDHOOD EDUCATION AND CARE 2201 Creative Art Activities for the Young Child

2 credit hours

Introduction to a variety of materials and experiences suitable for creative artistic expression of the young child. The use of various media to provide opportunities for expression and exploration is emphasized. (1 lecture hour, 2 lab hours)

EARLY CHILDHOOD EDUCATION AND CARE 2203 Music and Movement for the Young Child

2 credit hours

An introduction to music and movement experiences for the young child. The relationship of children's developmental needs to the music and movement curriculum is explored. Students will compile resources of music and movement activities. (1 lecture hour, 2 lab hours)

EARLY CHILDHOOD EDUCATION AND CARE 2204 Child Care Environment

2 credit hours

This course explores indoor and outdoor environments in child care centers that support the development of young children. Materials and equipment selection and room arrangement are included. (1 lecture hour, 2 lab hours)

EARLY CHILDHOOD EDUCATION AND CARE 2206 Science and Nature for the Young Child

2 credit hours

Introduction to theories and practice of science and nature curriculum for young children. Emphasis is placed on the planning, implementation and evaluation of developmentally appropriate activities and instructional materials. (1 lecture hour, 2 lab hours)

EARLY CHILDHOOD EDUCATION AND CARE 2208 *Mathematics Activities for the Young Child* 2 credit hours

Introduction to theories and practice related to the curriculum area of mathematics for young children. Emphasis is placed on the development of mathematical thinking. Implementation and evaluation of developmentally appropriate activities and instructional materials are included. (1 lecture hour, 2 lab hours)

EARLY CHILDHOOD EDUCATION AND CARE 2210 The Young Child with Special Needs

2 credit hours

An introduction to child care services for young children (under 8 years of age) with special needs. Descriptions of special needs, curriculum, programs, services and current issues are included. (1 lecture hour, 2 lab hours)

EARLY CHILDHOOD EDUCATION AND CARE 2211 Child Health, Safety and Nutrition

3 credit hours

A comprehensive overview of current health, safety and nutritional needs of growing children. Appropriate methods to meet the needs of young children in group care settings are emphasized. (2 lecture hours, 2 lab hours)

EARLY CHILDHOOD EDUCATION AND CARE 2220 Child Care Practicum

4 credit hours

Daily participation in the College of DuPage Early Childhood Education and Care Demonstration Center under

supervision of faculty supervisor. Students use knowledge and practice skills gained in child care classes and assume the role of a teacher in the center. Prerequisites: Early Childhood Education and Care 1102, 1130, 1140 and 2211, or equivalent, and consent of instructor

EARLY CHILDHOOD EDUCATION AND CARE 2226 Development of the School-Age Child

2 credit hours

A study of physical, cognitive and affective domains of the 6-to 12-year-old child's growth and development. (1 lecture hour, 2 lab hours)

EARLY CHILDHOOD EDUCATION AND CARE 2227 Guidance of the School-Age Child

2 credit hours

A study of guidance practices that support the development of school-age children in group settings. (1 lecture hour, 2 lab hours)

EARLY CHILDHOOD EDUCATION AND CARE 2228 Activities for School-Age Children

2 credit hours

This course introduces students to the process of planning, implementing and evaluating activities for school-age children in a group setting. (1 lecture hour, 2 lab hours)

EARLY CHILDHOOD EDUCATION AND CARE 2230 Foundations of Early Childhood Education

3 credit hours

Early childhood education and childcare trends and issues, including a historical and philosophical review of research. Includes a study of theories of early childhood education as reflected in program models. (2 lecture hours, 2 lab hours)

EARLY CHILDHOOD EDUCATION AND CARE 2250 Play and Learning of the Young Child

3 credit hours

An exploration of the significance of play experiences that promote growth and learning. Emphasis is placed on the relationship between the adult and the child at play.

Prerequisite: Early Childhood Education and Care 1101 (2 lecture hours, 2 lab hours)

EARLY CHILDHOOD EDUCATION AND CARE 2251 Curriculum Planning for the Young Child

3 credit hours

The principles involved in planning, implementing and evaluating developmentally appropriate curriculum. Development of curriculum based on the needs and interests of young children in group care is emphasized. Prerequisites: Early Childhood Education and Care 1102 or equivalent, concurrent enrollment in Early Childhood Education and Care 1130 and 1140, and consent of instructor (2 lecture hours, 2 lab hours)

EARLY CHILDHOOD EDUCATION AND CARE 2252 Child/Family/Community Relations and Resources 3 credit hours

This course describes the knowledge and skills early childhood professionals need to build effective interrelationships with the child, family and community. Programs and services for children and their families are explored. Prerequisite: Early Childhood Education and Care 1101 or equivalent (2 lecture hours, 2 lab hours)

EARLY CHILDHOOD EDUCATION AND CARE 2254 Administration of an Early Childhood Center – Program Operations

3 credit hours

An overview of early childhood program operations, including legal and professional standards. Students explore licensing and accreditation standards in relation to an existing early childhood center. Design and management as well as storage and maintenance of indoor and outdoor environments are included. (2 lecture hours, 2 lab hours)

EARLY CHILDHOOD EDUCATION AND CARE 2255 Administration of an Early Childhood Center – Practices and Procedures

3 credit hours

Information about the management processes of early childhood programs. Fiscal and legal structures, community outreach programs, and early childhood program marketing, public relations and promotional strategies are included. (2 lecture hours, 2 lab hours)

EARLY CHILDHOOD EDUCATION AND CARE 2256 Administration of an Early Childhood Center – Staff, Families and Children

3 credit hours

Exploration of the knowledge and skill application of early childhood program staff management and supervision. Development of effective human relations with diverse groups is described. Early childhood leadership skills and child advocacy are included. (2 lecture hours, 2 lab hours)

EARLY CHILDHOOD EDUCATION AND CARE 2260 Early Childhood Professional

3 credit hours

Explores the dimensions of becoming an early childhood professional, including ethics, relationships with colleagues, time management, advocacy, critical reflection and career development. Prerequisite: Early Childhood Education and Care 1100 or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

For additional information regarding Early Childhood Education and Care, call Diane Kubetz at (630) 942-2704, Sarah Patton at (630) 942-3419, or Cindy Rice at (630) 942-2388.

EARTH SCIENCE

EARTH SCIENCE 1101 (IAI P1 907L) Physical Geology of Earth's Interior

4 credit hours

Processes important in understanding Earth's interior. Planetary segregation, heat flow, Earth's magnetic field, earthquakes, continental drift, paleomagnetism, seafloor spreading, mantle plumes, and crustal deformation are investigated in light of the unifying theory of plate tectonics. Physical and chemical properties of minerals and the genesis of igneous, sedimentary and metamorphic rocks, and their relationship to the rock and tectonic cycles. Prerequisite: Mathematics 0481 with a grade of "C" or better or a qualifying score on the Math Placement Test (3 lecture hours, 3 lab hours)

EARTH SCIENCE 1102 (IAI P1 907L) Physical Geology of Earth's Surface

4 credit hours

Geological processes involved in the creation of a variety of landform systems and sedimentary deposits. Weathering, mass wasting, transport, deposition, depositional environments, sediment lithification, analysis and interpretation of topographic maps, cross-sections and aerial photographs. Plate tectonic theory, volcanism, and rock and mineral forming processes are integrated. Prerequisite: Mathematics 0481 with a grade of "C" or better or a qualifying score on the Math Placement Test (3 lecture hours, 3 lab hours)

EARTH SCIENCE 1110 (IAI P1 905L) Introduction to Meteorology

4 credit hours

A first look at various aspects of meteorology, including solar radiation, global circulation, environmental issues, winds, stability, precipitation processes, weather systems and severe weather. Basic physical principles, meteorological terminology, societal impacts and weather analysis will be explored. Prerequisite: Mathematics 0481 with a grade of "C" or better or a qualifying score on the Math Placement Test (3 lecture hours, 2 lab hours)

EARTH SCIENCE 1111 (IAI P1 905) Climate and Global Change

3 credit hours

Introduction to the Earth's climate, climate change and the interactions between climate and the global environment. Physical, chemical, biological and social factors contributing to climate and global change are investigated. Topics explored are: climate classifications, global warming and greenhouse effect, acid rain, ozone depletion, regional drought and cataclysmic climate change. Man-made climate change as opposed to natural variability, along with human responses to potential climate change are debated. Prerequisite: Mathematics 0481 with a grade of "C" or better or a qualifying score on the Math Placement Test (3 lecture hours)

EARTH SCIENCE 1115 (IAI P1 905L) Severe and Unusual Weather

4 credit hours

In-depth study of meteorological phenomena relating to thunderstorms, El Niño/Southern Oscillation events and tropical storms. Topics include severe weather spotting, weather radar, atmospheric soundings, tornadogenesis, El Niño, tropical meteorology, hurricanes and an introduction to numerical weather prediction. Basic physical principles, their relation to weather events, and weather's impact on society are also explored. Prerequisite: Mathematics 0481 with a grade of "C" or better or a qualifying score on the Math Placement Test (3 lecture hours, 2 lab hours)

EARTH SCIENCE 1116

Weather Analysis and Forecasting I

1 credit hour

A study of day-to-day weather patterns with an emphasis on understanding the basics of meteorological processes and forecasting. Students learn to read weather reports and weather maps needed to analyze current conditions and forecast weather. Taking advantage of a fully operational weather laboratory, students monitor current weather conditions locally and across the nation. (2 lab hours)

EARTH SCIENCE 1117

Weather Analysis and Forecasting II

1 credit hour

A continuation of Weather Analysis and Forecasting I. Students continue investigating sources of data, learn to analyze raw images, and interpret numerical weather forecasts. Taking advantage of a fully-operational weather laboratory, students monitor current weather conditions locally and across the nation. Prerequisite: Earth Science 1116 or equivalent (2 lab hours)

EARTH SCIENCE 1122 (IAI P1 906L)

Astronomy: The Solar System

4 credit hours

An introduction to the solar system using recently available astronomical data. Major topics include scale models, planetary properties, Earth-sun relationships, lunar geology, terrestrial planets, jovian planets, natural satellites and ring systems, asteroids, comets, meteoroids, meteors, meteorites, interplanetary space probes and formation theories. Prerequisite: Mathematics 0481 with a grade of "C" or better or a qualifying score on the Math Placement Test (3 lecture hours, 3 lab hours)

EARTH SCIENCE 1124 (IAI P1 906L)

Astronomy: Stars and Galaxies

4 credit hours

A study of stars, galaxies, deep space objects and cosmology utilizing the latest astronomical discoveries. Major topics include constellations, the sun, stellar types, motions, parallax, magnitudes, luminosity, spectra, classifications, clusters, evolution, quasars, nebula, galaxy classification and composition, the Big Bang, inflation and cosmology. Prerequisite: Mathematics 0481 with a grade of "C" or better or a qualifying score on the Math Placement Test (3 lecture hours, 3 lab hours)

EARTH SCIENCE 1126 (IAI P1 906L)

Observational Astronomy

4 credit hours

An introduction to observation of the heavens with emphasis on angular measurements, use of horizontal and equatorial systems of location, object identification, and classification using data from sidereal time reports, naked eyes, binoculars, optical telescopes, radio telescopes and space telescopes. Use of planisphere, celestial globes, first-hand and robic telescopic data and telescopic tools. Prerequisite: Mathematics 0481 with a grade of "C" or better or a qualifying score on the Math Placement Test (3 lecture hours, 3 lab hours)

EARTH SCIENCE 1130 (IAI P1 905L)

Introduction to Oceanography

4 credit hours

An introduction to oceanography that focuses on the dominating influence the World Ocean has upon Earth processes. Topics include ocean basin evolution, sea water chemistry and physics, interrelationships between the ocean and atmosphere, waves, currents, tides, coastal development, marine communities and human impacts. Prerequisite: Mathematics 0481 with a grade of "C" or better or a qualifying score on the Math Placement Test (3 lecture hours, 2 lab hours)

EARTH SCIENCE 1135

Introduction to Hydrology

3 credit hours

A scientific study of water including its properties, occurrences, distribution, movement, utilization, and control, both on and beneath the surface of the ground. An introduction to techniques for obtaining and testing water samples and the equipment necessary for determining pH, dissolved oxygen, carbon dioxide, and various nutrients and pollutants. Prerequisite: Mathematics 0481 with a grade of "C" or better or a qualifying score on the Math Placement Test (2 lecture hours, 3 lab hours)

EARTH SCIENCE 1140 (IAI P1 905L)

Fundamentals of Earth Science

4 credit hours

An introduction to the study of the Earth as a planet. Topics from the disciplines of astronomy, meteorology, oceanography and geology are explored to develop an appreciation of our planet as an integrated system. Includes analyses of the dynamic processes of the Earth's interior, surface, oceans, atmosphere and astronomical surroundings. Prerequisite: Mathematics 0481 with a grade of "C" or better or a qualifying score on the Math Placement Test (3 lecture hours, 2 lab hours)

EARTH SCIENCE 1800

Experiential Special Topics

1 to 3 credit hours

Experiential courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the Earth Science discipline. These courses require direct experience and focused reflection in an indepth study of a specific Earth Science topic and/or the critical analysis of contemporary issues in Earth Science. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent. This experiential component may include field studies, interdisciplinary learning, and/or the practical application of earth science concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.) (1 to 3 lecture hours, 1 to 3 lab hours)

EARTH SCIENCE 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

EARTH SCIENCE 2102

Origin and Evolution of the Earth

4 credit hours

Processes and geologic events that are important in understanding the origin and evolution of the Earth. Origin of the solar system, planetary segregation, absolute and relative age dating methods, the sedimentary record,

evolution of the continents, oceans and atmosphere. Plate tectonics, crustal evolution and biologic development over the course of geologic time will be a unifying theme. Prerequisite: Earth Science 1101, 1102, 1130 or 1140 with a grade of "C" or better or equivalent. (3 lecture hours, 2 lab hours)

EARTH SCIENCE 2103

Geologic Field Investigations

3 credit hours

Geologic field investigation involving the stratigraphy, structural geology and economic geology of a selected region within the United States or abroad. Basic methods of geologic field work, including rock and outcrop description, sampling methods, measurement of stratigraphic sections, strike and dip measurements, orienteering and map interpretation. A supervised field investigation involving 10 to 14 days of outdoor field work and pre- and post-trip class meetings. Prerequisite: Earth Science 1101, 1102 or 1140 or equivalent (1 lecture hour, 4 lab hours)

EARTH SCIENCE 2110

Intermediate Meteorology

4 credit hours

A quantitative first look at the science of meteorology. Physical concepts will be examined using algebraic methods to prepare students for material using higher mathematics. Operational, physical and dynamical meteorology are discussed to give students an overall understanding of atmospheric science. Equations of motion, thermodynamics and the primitive equations will be among the topics covered. Prerequisites: Mathematics 1431 and either Earth Science 1110 or 1115, or consent of instructor (4 lecture hours)

EARTH SCIENCE 2115

Mesoscale Meteorology

4 credit hours

In-depth study of meteorological phenomena with short temporal and small spatial scales. Topics will include tools for mesoscale analysis, mesoscale modeling, thermally-forced circulations, fog, mesoscale winter events, and the morphology of convective systems, including squall lines, mesoscale convective systems and supercells and their associated threats, including flash floods and tornadoes. Other topics of current research interest will also be covered. Prerequisite: Earth Science 1115, or equivalent, or consent of instructor (3 lecture hours, 2 lab hours)

EARTH SCIENCE 2116

Advanced Weather Analysis and Forecasting I

1 credit hour

A continuation of Weather Analysis and Forecasting II, Earth Science 1117. Emphasis is on independent analysis of weather events, forecast preparation and mastery of hand data analysis. Taking advantage of a fully operational weather laboratory, students monitor current weather conditions locally and across the nation. Prerequisite: Earth Science 1117 and Mathematics 0481 with a grade of "C" or better or a qualifying score on the Math Placement Test (2 lab hours)

EARTH SCIENCE 2117

Advanced Weather Analysis and Forecasting II

1 credit hou

A continuation of Advanced Weather Analysis and Forecasting I. Students prepare a weekly forecast for the Chicago metropolitan area generally and DuPage County specifically, and track and evaluate their forecasting accuracy. Taking advantage of a fully operational weather laboratory, students monitor current weather conditions locally and across the nation. Prerequisite: Earth Science 2116 or equivalent (2 lab hours)

EARTH SCIENCE 2118

Severe Weather Lab

2 credit hours

An in-depth study of severe weather forecasting and analysis. An emphasis is placed on hand analysis of raw data, assessing short-term numerical weather models and nowcasting. Students monitor events prior to and during severe weather events using real time radar and other data sources. Students gain a better understanding of severe weather initiation and evolution. Local field trips to observe severe weather first-hand may be included. May be taken up to two times for credit. Prerequisite: Earth Science 1115 with a grade of "C" or better or consent of instructor (4 lab hours)

EARTH SCIENCE 2800

Advanced Experiential Special Topics

1 to 3 credit hours

Advanced experiential courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the Earth Science discipline, while building upon academic knowledge and skills acquired in introductory-level Earth Science classes. These courses require direct experience and focused reflection in an indepth study of a specific Earth Science topic and/or the critical analysis of contemporary issues in Earth Science. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent. This experiential component may include field studies, interdisciplinary learning, and/or the practical applications of more complex Earth Science concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.) Prerequisite: At least one course in Earth Science or consent of the instructor

For additional information regarding Earth and Space Sciences, call Diana Strode, (630) 942-2547. For Meteorology, call Paul Sirvatka, (630) 942-2118.

ECONOMICS

ECONOMICS 1110

Consumer Economics and Personal Finance

3 credit hours

An overview of personal and family financial planning. Emphasis is placed on financial recordkeeping, consumer spending, tax planning, making buying decisions, purchasing insurance, selecting investments, and retirement and estate planning. (3 lecture hours)

ECONOMICS 1800

Experiential Special Topics

1 to 3 credit hours

Experiential courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates and experiential component of no less than 30 percent but not to exceed 70 percent (to be determined by the disciplines). This experiential component may include field studies, interdisciplinary learning, and/or the practical application of discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.) (1 to 3 lecture hours, 1 to 3 lab hours)

ECONOMICS 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

ECONOMICS 2200 (IAI S3 900) **Principles of Economics**

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3 credit hours

A survey course addressing macroeconomics and microeconomics. A study of product and resource markets, market structures, interactions between government and firms, the determinants of economic activity, money and banking, monetary and fiscal policy implications, international trade, and international finance. This course is not recommended for Economics majors or those pursuing a baccalaureate degree in any field of business. Not for credit if credit earned in Economics 2201 or Economics 2202 or their equivalent. (3 lecture hours)

ECONOMICS 2201 (IAI S3 901)

Macroeconomics and the Global Economy 3 credit hours

A study of the major factors that determine levels of economic activity. Emphasis is placed on resource allocation, national production, demand and supply, income levels, government, money and the banking system, policy implications, economic growth, international finance and exchange rates. A score of 53 or higher in algebra domain of Math Placement Test is recommended. (3 lecture hours)

ECONOMICS 2202 (IAI S3 902)

Microeconomics and the Global Economy

3 credit hours

A study of consumer behavior, supply and demand, price determination, market structures, factor pricing, international trade and finance, and economic

development. Special topics may include agricultural economics, the economics of risk, environmental economics and alternative economic systems. A score of 53 or higher in algebra domain of Math Placement Test and successful completion of Economics 2201 are recommended. (3 lecture hours)

ECONOMICS 2210

Money and Banking

3 credit hours

A descriptive, historical and analytical introduction to the role of money, monetary policy, financial institutions and central banks in the United States and internationally. Prerequisite: Economics 2201 (3 lecture hours)

ECONOMICS 2220

Comparative Economic Systems

3 credit hours

A comparison of the principal economic systems, their theoretical foundations and historical backgrounds. Economic analysis of the strengths and weaknesses of the capitalist, socialist and communist systems. Developing nations are studied within their own unique paradigm and with current strategies for economic development. Prerequisite: Economics 2201or consent of instructor (3 lecture hours)

ECONOMICS 2800

Advanced Experiential Special Topics

1 to 3 credit hours

Advanced experiential courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline, while building upon academic knowledge and skills acquired in introductorylevel classes. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent (to be determined by the disciplines). This experiential component may include field studies, interdisciplinary learning, and/or the practical application of more complex discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.) Prerequisite: At least one course in the discipline or consent of the instructor (1 to 3 lecture hours, 1 to 3 lab hours)

For additional information regarding Economics, call Larry Frateschi at (630) 942-2076, Vincent Panzone at (630) 942-2469, Rosa Lea Danielson at (630) 942-3334, Mitch Fisher at (630) 942-2403 or Lewis Jones at (630) 942-2039.

EDUCATION – PERSONAL DEVELOPMENT

EDUCATION 1105

Career Development

2 credit hours

Focus on integrating career development into important life choices. Emphasis will be given to helping students

learn the skills involved in developing career awareness, making career decisions and taking career action in a changing work environment. (2 lecture hours)

EDUCATION 1110

Interpersonal Skills for Life and Work

2 credit hours

Emphasizes understanding the student's style of communicating, exploring options and decreasing self-defeating behaviors. Includes awareness of communication variances among ethnic, racial and gender groups. Through an experiential approach, students have an opportunity to develop more satisfying and effective interpersonal skills for enhancing personal and work relationships, self-esteem, and understanding of behavior differences among persons from diverse backgrounds. (2 lecture hours)

EDUCATION 1115

College Success Skills

2 credit hours

An introduction to academic success skills necessary for meeting the challenge of a college education. Students explore and apply note-taking strategies, listening skills, test preparation, test-anxiety strategies, time management, goal setting, and awareness of potential that can assist in achieving their goals in higher education. (2 lecture hours)

For additional information regarding Education – Personal Development, call Sue Martin (630) 942-3224 or Colleen Morgan (630) 942-2822.

EDUCATION – TEACHER PREPARATION

EDUCATION 1100

Introduction to Education

3 credit hours

Provides an introduction to teaching as a profession in the American education system. Offers a variety of perspectives on education, including historical, philosophical, social, legal and ethical issues in a diverse society. Includes organizational structure and school governance. A 15 clockhour field experience is required. Field experience placement is dependent on degree pursued and/or interest and grade level area. (3 lecture hours)

EDUCATION 1101

School Procedures I

3 credit hours

A field experience course with each student spending a minimum of 40 clock hours in a classroom, preferably in a diverse setting. The weekly seminar focuses on the development of human relations and problem-solving skills necessary for an effective classroom. Students examine various policies, procedures and routine activities that are part of the teacher's role. Education 1100 strongly recommended (2 lecture hours, 2 lab hours)

EDUCATION 1102

School Procedures II

3 credit hours

An introduction to the classroom focusing on diversity in learning styles, assessment and evaluation. Student will spend a minimum of 40 clock hours in a field experience setting. Education 1101 is recommended (2 lecture hours, 2 lab hours)

EDUCATION 1150

School Resources

3 credit hours

An introduction to instructional media used in classrooms and learning centers. Emphasis is on current and emerging theories of learning with instructional technology and how to best integrate, utilize and adapt technology as a resource in teaching and learning. A variety of media are incorporated: display boards, projectors, recorders, videotapes, computers, software, e-mail, Internet, archival data files, Elmo, CDs, course management systems and electronic data storage are among the resources reviewed. Practical application of media in traditional and non-traditional learning environments addressed. (3 lecture hours)

EDUCATION 1800

Experiential Special Topics

1 to 3 credit hours

Experiential courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent (to be determined by the disciplines). This experiential component may include field studies, interdisciplinary learning, and/or the practical application of discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.) (1 to 3 lecture hours, 1 to 3 lab hours)

EDUCATION 2201 (IAI S1 901N)

Education for Exceptional Children

3 credit hours

A survey course that presents the historical, legal and philosophical foundations of special education. The primary focus is on children with disabilities, but will include children at-risk, and children from culturally diverse backgrounds. Course work includes the categories of exceptionality as identified by the Individuals with Disabilities Education Act (IDEA), their characteristics and collaborative strategies to address their needs. Students spend a minimum of 40 hours observing and assisting in special education settings. Recommended: Education 1100 or equivalent (2 lecture hours, 2 lab hours)

EDUCATION 2202

Introduction to Learning Disabilities

3 credit hours

This course provides an overview of learning disabilities and includes etiology and diagnostic procedures, classification, characteristic and teaching strategies. Course work also includes discussion of service delivery models and strategies for meeting the needs of students with learning disabilities in the least restrictive environment. Recommended: Education 2201 (3 lecture hours)

EDUCATION 2211

Survey of Literature for Children

3 credit hours

A study of children's literature representing a range of literary types. The literature is evaluated for age and interest appropriateness. Students may do a concentrated study of a specific age group within the 1 to 12 years age range. A 10-hour service learning component is required. (3 lecture hours)

EDUCATION 2800

Advanced Experiential Special Topics

1 to 3 credit hours

Advanced experiential courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent (to be determined by the disciplines). This experiential component may include field studies, interdisciplinary learning, and/or the practical application of discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.) Prerequisite: At least one course in the discipline or consent of the instructor to 3 lecture hours, 1 to 3 lab hours)

For more information regarding Education – Teacher Preparation, call Richard Kalus (630) 942-2014.

ELECTRO-MECHANICAL TECHNOLOGY

ELECTRO-MECHANICAL TECHNOLOGY 1101 Survey of Automation

3 credit hours

Automation technology, including robotics, programmable controllers (PLC), process control instrumentation, industrial electricity, plastics, motion controls, vision systems and automatic guided vehicles. (2 lecture hours, 2 lab hours)

ELECTRO-MECHANICAL TECHNOLOGY 1110 Motor Fundamentals

3 credit hours

Basic principles for Alternating Current (AC) and Direct Current (DC) motors. Motor theory, operation, ratings, speeds and enclosures. Analysis of efficiency, power service factors and frame sizes. Motor control concepts, including ladder and wiring drawings. Control devices, including sensors, control transformers and starters. (2 lecture hours, 2 lab hours)

ELECTRO-MECHANICAL TECHNOLOGY 1120 Residential Wiring

3 credit hours

All facets of correct wiring methods and techniques, based on the National Electrical Code (NEC). Room-by-room, circuit-by-circuit installation and inspection with an emphasis on symbols, branch circuits, service drops,

ground-fault circuit-interrupters (GFCI), low voltage circuits and security system circuitry. (2 lecture hours, 2 lab hours)

ELECTRO-MECHANICAL TECHNOLOGY 1130 *Industrial Electricity*

3 credit hours

Industrial electricity, circuits, devices and power. The use of instruments on circuit analysis and test equipment. (2 lecture hour, 2 lab hours)

ELECTRO-MECHANICAL TECHNOLOGY 1140 Commercial and Industrial Wiring

3 credit hours

Designed to provide the electrician with tips and techniques for wiring in commercial buildings, offices, stores, manufacturing and other industrial environments. High voltage branch feeders, motors, appliance service, special systems and overcurrent protection are covered. Emphasis is on the National Electrical Code (NEC), minimum requirements pertaining to high and medium voltage motors, wiring, switchgear and power distribution. (2 lecture hours, 2 lab hours)

ELECTRO-MECHANICAL TECHNOLOGY 1150 National Electrical Code

3 credit hours

An overview of the current national electrical code (NEC) with emphasis on reading, interpretation and revisions. Definitions and terminology are covered. (3 lecture hours)

ELECTRO-MECHANICAL TECHNOLOGY 1300 Introduction to Fiber Optics

3 credit hours

Modern theories and applications of fiber optics. Course includes history, information transmission, advantages and disadvantages of fiber, optics and practical applications. (3 lecture hours)

ELECTRO-MECHANICAL TECHNOLOGY 1400 Maintenance Management Systems

3 credit hours

Overview of various computerized maintenance management systems. Topics include storeroom inventory, preventive maintenance procedures and scheduling, predictive maintenance costs, records and tracking, International Standards Organization (ISO) certification, training and vendor records. (3 lecture hours)

ELECTRO-MECHANICAL TECHNOLOGY 1410 Preventive and Predictive Maintenance

3 credit hours

Fundamentals of preventive and predictive maintenance using vibration analysis, equipment history, repair records and tracking systems. Procedures for identifying and implementing maintenance practices. Scheduled maintenance vs. predictive maintenance, charts and predictive maintenance, analysis of dimension signatures for bearings, motors and pumps, and development of anticipatory failure analysis. (2 lecture hours, 2 lab hours)

ELECTRO-MECHANICAL TECHNOLOGY 1420 **Drive Components**

2 credit hours

A hands-on approach to gears and gearing systems, chains and sprockets, belts and sheaves, brakes and

clutches, couplings and coupling alignment, bearings and lubrication. (1 lecture hour, 3 lab hours)

ELECTRO-MECHANICAL TECHNOLOGY 1840 Independent Study – Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

ELECTRO-MECHANICAL TECHNOLOGY 2310 Fiber Optic Applications

3 credit hours

Designed to provide industrial type simulations and emulate the processes found in real life applications. Topics include connector installation and splicing, fusing and troubleshooting. Prerequisite: Electro-Mechanical Technology 1300 or consent of instructor (2 lecture hours, 2 lab hours)

ELECTRO-MECHANICAL TECHNOLOGY 2410 Programmable Controller II (PLC II)

3 credit hours

Data manipulation within programmable controllers (PLC), including data transfer, arithmetic functions, shift registers and sequencers. Topics such as analog to digital conversion, operator interface input/output (I/O) bus systems, advanced PLC cards, factory information systems and troubleshooting of applications. Prerequisite: Manufacturing Technology 1190 with a grade of "C" or better or consent of instructor (2 lecture hours, 2 lab hours)

ELECTRO-MECHANICAL TECHNOLOGY 2420 Programmable Controller III

3 credit hours

Advanced topics in programmable controllers (PLCs) such as data highways, programming modules, and online programming using manufacturer's advanced software, process conversions to programmable controls and critical areas of process controls. Simulated applications of real-time processes comprise the majority of the course work, such as injection molding machines and transfer pad printing. Prerequisite: Electro-Mechanical Technology 2410 with a grade of "C" or better or consent of instructor (2 lecture hours, 2 lab hours)

ELECTRO-MECHANICAL TECHNOLOGY 2430 Advanced Industrial Automation

3 credit hours

A systems approach to industrial automation. Bus structure, memory devices, digital and analog input/output (I/O) devices, data acquisition systems, digital transmission standards and networks. Emphasis is placed on multiple system design, integration and troubleshooting. Prerequisites: Electro-Mechanical Technology 2410 and 2520 with a grade of "C" or better or consent of instructor (2 lecture hours, 2 lab hours)

ELECTRO-MECHANICAL TECHNOLOGY 2510 Process and Automation Controls

3 credit hours

Introduction to language, symbols and principles of process control instrumentation with emphasis on temperature, pressure, level and flow measurement, including calibration of transmitters, process feedback and feedforward loops. Discussion of hazardous area classifications. Introduction to controllers, controller modes and tuning processes. Included are deadband adjustments, proportional (gain), integral (reset) and derivative (rate) calibration. (2 lecture hours, 2 lab hours)

ELECTRO-MECHANICAL TECHNOLOGY 2520 Advanced Process and Automation Controls 2 and the bourse

3 credit hours

An in-depth study of force, stress, strain, linear position, weight and mass measurement. Also included are analytical process measurements such as pH, conductivity and resistivity. Major emphasis is given to control elements in process loops and electrical, pneumatic and hydraulic actuators. Introduction to digital process controllers and indepth study of piping and instrumentation drawings (P&ID). Additionally, a comprehensive study of intrinsic safety and instrument purging is included. Prerequisites: Electro-Mechanical Technology 2510 and Manufacturing Technology 1190 with a grade of "C" or better or consent of instructor (2 lecture hours, 2 lab hours)

ELECTRO-MECHANICAL TECHNOLOGY 2600 Motion Control: Servo and Stepper Motor Application and Control

2 credit hours

An introduction to motion control, including servo motors, DC servo drivers with control circuits, alternating current (AC) motors, steppers, actuators, sensors, fundamentals of basic control principles, and industrial and engineering applications of motion control systems. Prerequisite: Manufacturing Technology 1190 or consent of instructor (1 lecture hour, 3 lab hours)

ELECTRO-MECHANICAL TECHNOLOGY 2610 Machine Vision and Artificial Intelligence 2 credit hours

Advanced topics in computer vision for robots, and an introduction to artificial intelligence (AI). Course covers the following main areas: sensors, manipulators, and pattern recognition and vision systems, software and control.

Object-oriented programming languages and vision system robotics software will be covered in the laboratory. Prerequisite: Manufacturing Technology 1190 or consent of instructor (1 lecture hour, 3 lab hours)

ELECTRO-MECHANICAL TECHNOLOGY 2620 Critical Thinking in Technical Applications

2 credit hours

Manufacturing processes and parameters that contribute to the system troubleshooting procedures. Through case studies and practical application, a system of thinking is developed to determine fault isolation and failure. (1 lecture hour, 2 lab hours)

ELECTRO-MECHANICAL TECHNOLOGY 2630

Systems Troubleshooting

2 credit hours

Examines troubleshooting techniques, time-proven tips and aids to troubleshooting, and use of functional block diagrams in the ICO (input-conversion-output) method of fault isolation. Emphasis is on breakdown maintenance. (1 lecture hour, 2 lab hours)

For additional information regarding Electro-Mechanical Technology, call Branislav Rosul at (630) 942-3390.

ELECTRONICS TECHNOLOGY

ELECTRONICS TECHNOLOGY 1100

Electricity and Electronics Fundamentals

2 credit hours

Basic concepts in electronics. An overview of direct and alternating current, circuit laws, components, troubleshooting and use of test equipment. Hands-on experience and practical applications are included. (1 lecture hour, 3 lab hours)

ELECTRONICS TECHNOLOGY 1101

Circuits I

3 credit hours

Introduction to basic concepts in electronics. An exploration of the basics in electricity and electronics. Topics include an overview of direct and alternating current, circuit laws, components, troubleshooting and use of test equipment. Teamwork, critical thinking and problem solving are emphasized. Hands-on experience and practical applications are included. Prerequisite: Electronics Technology 1100 or consent of instructor (2 lecture hours, 2 lab hours)

ELECTRONICS TECHNOLOGY 1102

Circuits II

4 credit hours

Advanced concepts in circuit electronics. Topics include filtering, resonance, time and frequency response, troubleshooting and use of test equipment. Hands-on experience, practical applications and projects are included. Teamwork, critical thinking and problem solving are emphasized. Prerequisite: Electronics Technology 1101 or consent of instructor (2 lecture hours, 4 lab hours)

ELECTRONICS TECHNOLOGY 1111

Introduction to Robotics

3 credit hours

Introduction to fundamental robotic concepts, basic robot characteristics and review of robotic applications. Handson experience, practical applications and projects. Teamwork, critical thinking and problem solving are emphasized. Prerequisite: Electronics Technology 1100 or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

ELECTRONICS TECHNOLOGY 1118

Calculus for Electronics

2 credit hours

Basic principles of differential and integral calculus and differential equations applicable to circuit analysis. Prerequisites: Mathematics 1432 and Electronics

Technology 1102 or concurrent enrollment, or consent of instructor (2 lecture hours)

ELECTRONICS TECHNOLOGY 1120

Electronic Documentation

2 credit hours

Introduction to electronic drafting and documentation. Electronic schematics and documentation, printed circuit board documentation, and drafting techniques using computer assisted drafting and design (CADD). Components, symbols and diagrams. (1 lecture hour, 2 lab hours)

ELECTRONICS TECHNOLOGY 1130 Electronics Materials and Fabrication

2 credit hours

Electronic equipment construction, assembly, repair, cable soldering techniques and fabrication. Coverage of the fundamentals of electronic design, fabrication and documentation, delineating various troubleshooting and test procedures, hands-on experience with connectors, fasteners, troubleshooting and testing of electronic systems. Testing of integrated circuits and personal computer boards. Concepts reinforced through student projects. Prerequisite: Electronics Technology 1120 or consent of instructor (1 lecture hour, 2 lab hours)

ELECTRONICS TECHNOLOGY 1141

Digital Fundamentals

3 credit hours

Introduction to basic concepts in digital electronics. Basic discrete electronics, digital logic, circuit laws, components, troubleshooting and use of test equipment. Hands-on experience, practical applications and projects. Teamwork, critical thinking and problem solving are emphasized. Prerequisite: Electronics Technology 1100 or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

ELECTRONICS TECHNOLOGY 1142

Digital Components and Architecture

3 credit hours

A continuation of Digital Fundamentals. Digital components, digital architecture, digital systems, troubleshooting and use of test equipment. Hands-on experience, practical applications and projects. Teamwork, critical thinking and problem solving are emphasized. Prerequisite: Electronics Technology 1141 or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

ELECTRONICS TECHNOLOGY 1151

Electronic Devices and Applications I

4 credit hours

Basic concepts in electronic devices. Topics include diode and transistor fundamentals and applications, troubleshooting and use of test equipment. Hands-on experience, practical applications and projects. Teamwork, critical thinking and problem solving are emphasized. Prerequisite: Electronics Technology 1101 or consent of instructor (2 lecture hours, 4 lab hours)

ELECTRONICS TECHNOLOGY 1152

Electronic Devices and Applications II

4 credit hours

A continuation of Electronic Devices and Applications I. Advanced concepts in electronic devices. Topics include

diode and transistor applications, troubleshooting and use of test equipment. Hands-on experience, practical applications and projects. Teamwork, critical thinking and problem solving are emphasized. Prerequisite: Electronics Technology 1151 or equivalent, or consent of instructor (2 lecture hours, 6 lab hours)

ELECTRONICS TECHNOLOGY 1161

Electronic Communication I

4 credit hours

Basic concepts in telecommunication electronics and circuits. Fundamentals of analog communications, such as amplitude modulation (AM), frequency modulation (FM), television and radio fundamentals, troubleshooting and use of test equipment. Hands-on experience, practical applications and projects. Teamwork, critical thinking and problem solving are emphasized. Prerequisite: Electronics Technology 1151 or consent of instructor (2 lecture hours, 4 lab hours)

ELECTRONICS TECHNOLOGY 1162

Electronic Communication II

4 credit hours

A continuation of Electronic Communication I. Advanced concepts in analog and digital communications and digital telecommunication circuits. Transmission lines, antennas, cell systems, networks, fiber-optics, troubleshooting and use of telecommunication test equipment. Hands-on experience, practical applications and projects. Teamwork, critical thinking and problem solving are emphasized. Prerequisite: Electronics Technology 1161 or equivalent, or consent of instructor (2 lecture hours, 4 lab hours)

ELECTRONICS TECHNOLOGY 1840 Independent Study – Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

ELECTRONICS TECHNOLOGY 2112

Motor Control

3 credit hours

Introduction to fundamental motor control concepts, basic control characteristics and review of control strategies. Hands-on experience, practical applications and projects. Teamwork, critical thinking and problem solving are emphasized. Prerequisite: Electronics Technology 1151 or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

ELECTRONICS TECHNOLOGY 2201

Applied Electronics

5 credit hours

A continuation of Electronic Devices and Applications II course. Advanced semiconductor circuits, linear and nonlinear op-amps, analog signal conditioning and linear power supplies. Hands-on experience, practical applications and projects. Teamwork, critical thinking and problem solving are emphasized. Prerequisite: Electronics

Technology 1152 or equivalent, or consent of instructor (3 lecture hours, 4 lab hours)

ELECTRONICS TECHNOLOGY 2202 Advanced Applied Electronics

5 credit hours

A continuation of Applied Electronics course. Practical semiconductor circuits, linear and nonlinear amplifiers, analog signal processors and power supplies. Hands-on experience, practical applications and projects. Teamwork, critical thinking and problem solving are emphasized. Prerequisite: Electronics Technology 2201 or equivalent, or consent of instructor (3 lecture hours, 4 lab hours)

ELECTRONICS TECHNOLOGY 2205

Electronics Assembly Technology

3 credit hours

Basic skills of assembly electronics technology, surface mount technology, techniques for electronic product assembly and manufacturing processes for electronics-based equipment and products, and quality assurance in electronics. Hands-on experience, practical applications and projects. Teamwork, critical thinking and problem solving are emphasized. Prerequisite: Electronics Technology 1130 or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

ELECTRONICS TECHNOLOGY 2210

Advanced Calculus for Electronics

2 credit hours

A continuation of Calculus for Electronics. Principles of differential and integral calculus and differential equations applicable to circuit analysis. Prerequisites: Electronics Technology 1102 and 1118 or equivalent, or consent of instructor (2 lecture hours)

ELECTRONICS TECHNOLOGY 2220

Electronic Instruments, Measurements and Control 3 credit hours

Methods of measurements of basic electric and electronic parameters. Study of circuits and characteristics of major electronic instruments. Basic control circuits. Prerequisites: Electronics Technology 1141 and 1151 or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

ELECTRONICS TECHNOLOGY 2231

Digital Computer Electronics

4 credit hours

Advanced concepts in digital computer electronics, computer architecture, computer circuit analysis and synthesis, computer organization and microprocessor programming. Hands-on experience, practical applications and projects. Teamwork, critical thinking and problem solving are emphasized. Prerequisites: Electronics Technology 1100 and 1142 or equivalent, or consent of instructor (2 lecture hours, 6 lab hours)

ELECTRONICS TECHNOLOGY 2241

Wireless Telecommunications I

3 credit hours

Basic concepts in wireless electronics and circuits. Fundamentals of wireless telecommunication systems, frequency spectrum, cellular radio, troubleshooting and use of telecommunication test equipment. Hands-on

experience, practical applications and projects. Teamwork, critical thinking and problem solving are emphasized.

Prerequisite: Electronics Technology 1162 or consent of instructor (2 lecture hours, 2 lab hours)

ELECTRONICS TECHNOLOGY 2242

Wireless Telecommunications II

3 credit hours

A continuation of Wireless Telecommunications I.
Concepts in wireless electronics and wireless systems.
Analysis of wireless telecommunication systems, personal telecommunication systems, and satellite and wireless networks. Hands-on experience, practical applications and projects. Teamwork, critical thinking and problem solving are emphasized. Prerequisite: Electronics Technology 2241 or consent of instructor (2 lecture hours, 2 lab hours)

ELECTRONICS TECHNOLOGY 2245

Digital Systems Programming

4 credit hours

Introduction to digital systems programming. Investigation of all phases of troubleshooting and implementation of reliable digital systems. Hands-on experience, practical applications and projects. Teamwork, critical thinking and problem solving are emphasized. Prerequisites: Computer Information Systems 1400 and Electronics Technology 1141 or equivalent, or consent of instructor (2 lecture hours, 4 lab hours)

ELECTRONICS TECHNOLOGY 2255

Industrial Controls

3 credit hours

Introduction of basic concepts in industrial electronics. Topics include an overview of transducers and signal conditioning. Troubleshooting and use of test equipment. Principles and fundamental laws of control technology and industrial electronics are included. Prerequisites: Electronics Technology 1141 and 1151 or consent of instructor (2 lecture hours, 2 lab hours)

ELECTRONICS TECHNOLOGY 2261

Digital Circuits and Systems

4 credit hours

Introduction to basic concepts in digital circuits and systems, investigation of all phases of troubleshooting and implementation of reliable digital systems. Hands-on experience, practical applications and projects. Teamwork, critical thinking and problem solving are emphasized. Prerequisite: Electronics Technology 1141 or equivalent, or consent of instructor (2 lecture hours, 4 lab hours)

ELECTRONICS TECHNOLOGY 2262

Introduction to Microprocessors

4 credit hours

Introduction to basic concepts in microprocessor systems. Architecture of microprocessor systems, and investigation of all phases of troubleshooting and implementation of reliable microprocessor systems. Hands-on experience, practical applications and projects. Teamwork, critical thinking and problem solving are emphasized. Prerequisites: Electronics Technology 1101 and 1141 or equivalent, or consent of instructor (2 lecture hours, 4 lab hours)

ELECTRONICS TECHNOLOGY 2273

Real-Time Systems and Programming

3 credit hours

Introduction to basic concepts in real-time processing, real-time systems, microcontrollers, digital signal processing and programming for real-time systems. Hands-on experience, practical applications and projects. Teamwork, critical thinking and problem solving are emphasized. Prerequisites: Electronics Technology 2255 and 2261 or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

For additional information regarding Electronics Technology, call Branislav Rosul at (630) 942-3390.

ENGINEERING

ENGINEERING 1101

Engineering Graphics and Design

3 credit hours

Introduction to engineering, engineering graphics and design. Topics include orthographic projection, isometric and oblique drawing, geometrical constructions, dimensioning, tolerances, basic shop operations, detailing and assembly drawing. Also descriptive geometry, spatial relationships of points, lines and planes in orthographic projection, and graphical presentation of data. Methods include free hand sketching, instrumental drawing and computer aided design. Both two-dimensional computer aided design and solid modeling are included. Plane geometry is recommended. (1 lecture hour, 5 lab hours)

ENGINEERING 2201

Statics

3 credit hours

Force and moment vectors in two and three dimensions. Equilibrium of particles and rigid bodies. Analysis of trusses, frames, machines and beams. First and second moments of inertia, centroids, distributed forces and mass moments of inertia. Friction and virtual work. Prerequisite: Mathematics 2231 (3 lecture hours)

ENGINEERING 2202

Dynamics

3 credit hours

Kinematics and kinetics of particles and rigid bodies in two and three dimensions. Absolute and relative motion. Force, mass, acceleration, work and energy, impulse and momentum, and vibration. Prerequisite: Engineering 2201 (3 lecture hours)

ENGINEERING 2203

Mechanics of Materials

3 credit hours

Analysis of stress, strain and deflection in machine and structural elements (axial, shear, torsion and bending loads). Stress and strain transformation using Mohr's Circle. Combined loading, repeated loading, theories of failure, related mechanical properties and column buckling. Design of shafts, beams and columns. Elementary stress measurement devices. Prerequisite: Engineering 2201 (3 lecture hours)

ENGINEERING 2205

Engineering Thermodynamics

3 credit hours

Analysis of thermodynamic processes and systems. Engineering implications of the properties of ideal and real gases and vapors in thermal systems. Zeroth, first and second laws of thermodynamics, power and refrigeration systems, entropy and vapor power systems. Prerequisite: Mathematics 2233 (3 lecture hours)

ENGINEERING 2210

Circuit Analysis and Theory

4 credit hours

An introduction to engineering circuit analysis and design. Topics include basic laws and concepts of linear circuits, analysis of direct current and alternating current circuits by mesh and nodal analysis, the operational amplifier, the inductor and capacitor, transients analysis, phasors, impedance, average and root-mean-square values, power and transfer functions. Hands-on lab is included. Prerequisites: Mathematics 2270 (or concurrent enrollment) and Physics 2112 (3 lecture hours, 2 lab hours)

ENGINEERING 2213

Introduction to Digital Systems

4 credit hours

An introduction to computer engineering. Digital circuit design with discrete and integrated circuit components. Binary arithmetic, codes, bases, number systems, logic elements and Boolean functions. Analysis and synthesis of combinational and sequential networks. Digital computer basics, machine level programming and microprocessors. Includes hands-on lab. A programming course or programming experience is recommended. (3 lecture hours, 2 lab hours)

For more information regarding Engineering, call Katie Nagle, (630) 942-2418.

ENGLISH

ENGLISH 0481

Approaches to College Reading I

4 credit hours

This course is designed to develop and practice strategies that lead to effective college-level reading. Computerassisted instruction in an electronically collaborative environment may be used. Course may require student visits to the Reading Assistance Center. May be taken twice for credit. Prerequisite: Student is required to have an appropriate score on the Reading Pre-Course Placement Test (4 lecture hours)

ENGLISH 0482

Approaches to College Reading II

4 credit hours

This course is designed for students to continue to develop a critical reading framework. Computer-assisted instruction in an electronically collaborative environment may be used. Course may require student visits to the Reading Assistance Center for individualized instruction. May be taken twice for credit. Prerequisite: English 0481 with a grade of "C" or higher or an appropriate score on the Reading Pre-Course Placement Test (4 lecture hours)

ENGLISH 0490

Basic Writing

4 credit hours

Build confidence and fluency in writing and the ability to generate well-developed texts. Students will understand how their texts fit in with a larger text-based world by developing a sense of audience and purpose. Classes are workshop-intensive sessions. Because of the strong relationship between writing and reading, students are immersed in reading activities. May be taken twice for credit. Prerequisites: Mandatory testing and appropriate score on the Writing Placement Test as determined by the English faculty (4 lecture hours)

ENGLISH 0491

Approaches to College Writing I

4 credit hours

The first of two developmental writing courses designed to prepare students for English Composition 1101. Focuses on creating effective sentences and paragraphs within the context of writing short (250 to 350-word) essays, and on developing critical thinking skills. May be taken twice for credit. Prerequisite: An appropriate score on the English Placement Test (4 lecture hours)

ENGLISH 0492

Approaches to College Writing II

4 credit hours

The second of two developmental writing courses designed to prepare students for English Composition 1101. Focuses on composing longer (500 word) essays and on further developing critical thinking skills. May be taken twice for credit. Prerequisite: English 0491 with a grade of "C" or higher or an appropriate score on the English Placement Test (4 lecture hours)

ENGLISH 1101 (IAI C1 900)

English Composition I

3 credit hours

The first of two courses in the one-year composition sequence. Introduces students to college-level writing as a process of developing and supporting a thesis in an organized essay. Requires students to read and think critically. Emphasizes using appropriate style and voice as well as the conventions of standard English and citation. Prerequisites: Mandatory testing. Prior to enrollment, student must have A) a satisfactory score, as determined by the English faculty, on an English Composition entrance test, and B) evidence of having met the Reading Competency Requirement. (3 lecture hours)

ENGLISH 1102 (IAI C1 901R)

English Composition II

3 credit hours

Second course in two-course composition sequence. Students continue to develop experience in reading, thinking and writing critically by writing essays that demonstrate ability to analyze and evaluate the ideas of others and integrate them into their own writing. Reinforces student experience with the conventions of standard written English and the conventions of documentation while developing student ability to carry out independently the proper method and responsibilities of research. Prerequisite: English 1101 with a grade of "C" or better (3 lecture hours)

ENGLISH 1105

Introduction to Technical Writing

3 credit hours

A basic composition course primarily for students enrolled in occupational/technical programs. The course includes a variety of writing experiences: resumes, letters of application, abstracts, internal and external memos, papers using visuals as supporting documentation, job descriptions, and a long report (a feasibility study or research report). Prerequisites: Satisfactory score, as determined by the English faculty, on the English Composition Entrance Exam required prior to enrollment in English 1105, or a grade of "C" or better in English 1101 or its equivalent; and evidence of having met the Reading Competency Requirement (3 lecture hours)

ENGLISH 1110

Technical Writing

3 credit hours

An introduction to instructional writing, proposals, recommendation reports, and a procedures or operator's manual. Also includes some instruction in design, layout and graphics. Intended for students entering today's technologically advanced workplace. (3 lecture hours)

ENGLISH 1115

Writing for the Web

3 credit hours

Concentrates on writing techniques that combine elements of technical writing and simple grammar and usage basics to develop an effective writing style appropriate for business and personal web sites. (3 lecture hours)

ENGLISH 1125

Linguistics

3 credit hours

The first course in the scientific study of language. Includes a systematic analysis of word formation, syntax and semantics in the English language and a study of the often universal ways that humans make meaning through language. Also includes study of related issues of language variation, particularly historical development and child language acquisition. (3 lecture hours)

ENGLISH 1130 (IAI H3 900)

Introduction to Literature

3 credit hours

This course develops students' understanding of the elements of literature, including character, theme, point of view, symbol, imagery, tone and rhythm. Reading selections include short fiction, poetry and drama. The course emphasizes students' appreciation of literature as an art form. (3 lecture hours)

ENGLISH 1135 (IAI F2 908)

Introduction to Film Art

3 credit hours

Introduces the basic elements of film as an art form, including cinematography, mise-en-scene, movement, editing and sound. The historical development and social impact of film are also considered. Through screening, discussion and critical evaluation of selected films, students develop their knowledge of film as an art form. (3 lecture hours)

ENGLISH 1150 (IAI H3 901)

Short Fiction

3 credit hours

A study of selected short stories. The stories are read and discussed to increase students' understanding and enjoyment of this literary form. (3 lecture hours)

ENGLISH 1151 (IAI H3 901)

Novel

3 credit hours

A study of selected novels. The novels are read and analyzed to increase students' understanding and enjoyment of this literary form. (3 lecture hours)

ENGLISH 1152 (IAI H3 903)

Poetry

3 credit hours

Introduces students to the nature and elements of poetry through reading, analysis and discussion. (3 lecture hours)

ENGLISH 1153 (IAI H3 902)

Drama

3 credit hours

A study of selected plays. At least one of the plays will be currently in production in the area, and students will attend a performance. (3 lecture hours)

ENGLISH 1154 (IAI HF 908)

Film as Literature

3 credit hours

Introduces methods of analyzing and interpreting the literary aspects of film in order to enhance enjoyment and understanding. Includes the comparison of literary and film techniques. Through the study of a selected variety of motion pictures, the course builds sensitivity to the uses of verbal and visual language and to the characteristics of various genre and non-genre films. (3 lecture hours)

ENGLISH 1156

Science Fiction

3 credit hours

Study of science fiction as a literary genre and as a means of exploring contemporary concerns. (3 lecture hours)

ENGLISH 1157

Children's Literature

3 credit hours

Introduction to literature for and by children, with emphasis upon imaginative literature, including fantasy, fairy tales, myths and legends, poetry and nonsense rhymes, adventure-quest narratives, as well as children's original poetry and fiction. Examines critical views of children's books. (3 lecture hours)

ENGLISH 1158 (IAI H5 901)

Bible as Literature

3 credit hours

An analysis, interpretation and evaluation of such basic types of literature found in the Bible as the short story, ballad and song, drama, fantasy, poetry, and the worlds of satire and humor. Emphasizes the development of individual understanding and enjoyment. (3 lecture hours)

ENGLISH 1159 (IAI H9 901)

Greek Mythology

3 credit hours

An introduction to the mythology of Classical Greece (fifth century BCE) as it appears in narrative and dramatic forms. The myths and the ideas underpinning them are studied in relation to modern culture. (3 lecture hours)

ENGLISH 1160 (IAI H3 910D)

Native American Literature

3 credit hours

Survey of Native American mythology, oratory, poetry, short fiction, nonfiction and the novel. Develops reading skills in analysis, interpretation and evaluation and examines values and themes common to Native American experiences. (3 lecture hours)

ENGLISH 1161 (IAI H3 910D)

Multicultural Literatures of the U.S.

3 credit hours

Examines literary texts representative of one or more multicultural groups in the United States, including but not limited to Hispanic, African-American, Asian-American, Middle Eastern, etc. (3 lecture hours)

ENGLISH 1165 (IAI H3 911D)

Literature and Gender

3 credit hours

Studies literature centering on women's experience, identity construction, gender epistemology, and feminist philosophy and scholarship. The course also examines subject-boundaries of traditional discipline and literary canonization from interdisciplinary and culturally inclusive perspectives. (3 lecture hours)

ENGLISH 1800

Experiential Special Topics

1 to 3 credit hours

Experiential courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent (to be determined by the disciplines). This experiential component may include field studies, interdisciplinary learning, and/or the practical application of discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.) (3 lecture hours)

ENGLISH 1820

Selected Topics I

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (3 lecture hours)

ENGLISH 1824

Selected Topics in English

2 credit hours

Introductory exploration and analysis of selected topics in English with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (2 lecture hours)

ENGLISH 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

ENGLISH 2126

Modern English Grammar

3 credit hours

A systematic and rigorous survey of the structure of contemporary English. Also explored are usage issues (including problems with the sentence, punctuation and agreement) and their underlying sources (language change, language attitudes, and the notion of Standard English). Traces the effects of stylistic, regional and social variation on English usage. (3 lecture hours)

ENGLISH 2210

Literary Journal: Prairie Light Review

1 credit hour

Applies editorial and publication techniques to produce college-district humanities magazine. Includes writing, photography, editing and business management. May be taken six times for credit. (2 lab hours)

ENGLISH 2220 (IAI H3 912)

British Literature to 1800

3 credit hours

A survey of representative works illustrating the development of British literature from its beginnings to roughly 1800, with an emphasis on major literary movements understood in relation to their intellectual, social and political contexts. Prerequisite: English 1101 with a grade of "C" or better or consent of instructor (3 lecture hours)

ENGLISH 2221 (IAI H3 913)

British Literature from 1800 Through the Present 3 credit hours

A survey of representative works illustrating the development of British literature from roughly 1800 to the present, with an emphasis on major literary movements understood in relation to their intellectual, social and political contexts. Prerequisite: English 1101 or consent of instructor (3 lecture hours)

ENGLISH 2223 (IAI H3 914)

American Literature from the Colonial Period Through the Civil War

3 credit hours

Surveys works of representative American authors in their literary, intellectual, social and political contexts from the

earliest periods to the Civil War. Prerequisite: English 1101 with a grade of "C" or better or consent of instructor (3 lecture hours)

ENGLISH 2224 (IAI H3 915)

American Literature from the Civil War to the Present 3 credit hours

Surveys works of representative American authors in their literary, intellectual, social and political contexts from the Civil War through the present. Prerequisite: English 1101 with a grade of "C" or better or consent of instructor (3 lecture hours)

ENGLISH 2226 (IAI H3 907)

Masterpieces of World Literature

3 credit hours

Reading of novels, drama and short stories from different cultural backgrounds and from different historical periods. Emphasis is on fictional literary masterpieces important to a liberal education. (3 lecture hours)

ENGLISH 2227 (IAI H3 907)

Modern European Literature

3 credit hours

Reading of major European writers of the 20th century in their individual and national contexts with emphasis on European thought and themes. (3 lecture hours)

ENGLISH 2228 (IAI H3 905)

Shakespeare

3 credit hours

Involves reading and discussing various Shakespearean works, including six to nine plays. Lecture, discussion, recordings, films, oral readings or occasional student performances may be used to illuminate the material. (3 lecture hours)

ENGLISH 2251

Fiction Writing

3 credit hours

A fiction writing course for students who want to develop their writing talents. Students examine elements of various forms of fiction and select and employ applicable techniques to their writing projects. (3 lecture hours)

ENGLISH 2252

Poetry Writing

3 credit hours

A creative writing course for students who want to explore, discover and develop their poetic talents. Students write their own poetry, experiment with various poetic forms and styles, criticize and revise their own work, receive critical feedback, and read and examine the works of well-known poets for insight and inspiration. (3 lecture hours)

ENGLISH 2253

Creative Nonfiction Writing

3 credit hours

An advanced writing course for students who wish to write free-lance articles, essays or other nonfiction prose. Students work on one or more projects with the editorial assistance of the instructor. (3 lecture hours)

ENGLISH 2261

Writing for Publication

3 credit hours

This course offers instruction in analyzing the publishing market, including such publications as educational journals, business and industrial journals, general interest magazines and book-length publications. Students aim their writing projects toward a particular market. (3 lecture hours)

ENGLISH 2262 H3 908N

Non-Western Literature

3 credit hours

Examines and analyzes literary texts representative of the Non-Western world, including but not limited to Latin America, South America, the Caribbean, Africa, Asia, the Middle East and/or Oceania. Prerequisite: English 1101 with a grade of "C" or better or equivalent (3 lecture hours)

ENGLISH 2271

Postmodern Fiction and Film

3 credit hours

An introduction to the conflicting ideas, texts and products that define Postmodern fiction and film. Prerequisite: English 1101 with a grade of "C" or better or equivalent (3 lecture hours)

ENGLISH 2800

Advanced Experiential Special Topics

1 to 3 credit hours

Advanced experiential courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline, while building upon academic knowledge and skills acquired in introductorylevel classes. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent (to be determined by the disciplines). This experiential component may include field studies, interdisciplinary learning, and/or the practical application of more complex discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.) Prerequisite: At least one course in the discipline or consent of instructor (3 lecture hours)

ENGLISH 2820

Selected Topics II

3 credit hours

Advanced exploration and analysis of selected topics with a specific theme indicated by course title listed in college Class Schedule. May be taken three times for credit as long as different topics are selected. Prerequisite: At least one course in the discipline or consent of instructor (3 lecture hours)

ENGLISH AS A SECOND LANGUAGE

ENGLISH AS A SECOND LANGUAGE 0441 **Beginning Reading**

4 credit hours

Beginning-level academic/professional reading and comprehension skills and strategies for students whose first or primary language is not English. Emphasizes skills/strategies to improve reading comprehension and speed, expand vocabulary and use reference resources. Course is intended for students who hold a high school certificate or its equivalent and have previously studied English in the United States or their native countries. May be taken up to three times for credit; course does not count toward GPA/graduation and is non-transferable. Prerequisite: Appropriate score on mandatory placement test (4 lecture hours)

ENGLISH AS A SECOND LANGUAGE 0442 Intermediate Reading

4 credit hours

Intermediate-level academic/professional reading comprehension skills and strategies for students whose first or primary language is not English. Emphasizes developing the critical reading and academic skills required to satisfy students' academic or professional needs. Course is primarily intended for students who hold a high school certificate or its equivalent and have previously studied English in the United States or their native countries. May be taken up to three times for credit; course does not count toward GPA/graduation and is non-transferable. Prerequisite: Appropriate score on mandatory placement test or successful completion of English as a Second Language 0441 (4 lecture hours)

ENGLISH AS A SECOND LANGUAGE 0443 Advanced Reading

4 credit hours

Advanced-level academic/professional reading skills and comprehension strategies for students whose first or primary language is not English. Emphasizes using authentic texts to develop the critical reading and academic skills required to satisfy students' academic or professional needs. Intended for students who hold a high school certificate or its equivalent and have previously studied English in the United States or their native countries. May be taken up to three times for credit; course does not count toward GPA/graduation and is non-transferable. Prerequisite: Appropriate score on mandatory placement test or successful completion of English as a Second Language 0442 (4 lecture hours)

ENGLISH AS A SECOND LANGUAGE 0551 **Beginning Writing**

4 credit hours

Beginning-level academic/professional writing skills for students whose first or primary language is not English. Emphasizes writing well-formed, grammatical sentences and studying paragraph development. Focuses on recognizing spelling patterns for verbs and nouns, expanding vocabulary, generating original sentences in the six basic sentence patterns with correct punctuation, distinguishing topic sentences from supporting ideas and concluding sentences, and learning pre-writing techniques for paragraph development. Intended for students who

hold a high school certificate or its equivalent and have previously studied English in the United States or their native countries. May be taken up to three times for credit; course does not count toward GPA/graduation and is non-transferable. Prerequisite: Appropriate score on mandatory placement testing (4 lecture hours)

ENGLISH AS A SECOND LANGUAGE 0552 Intermediate Writing

4 credit hours

Intermediate-level academic/professional writing skills for students whose first or primary language is not English. Emphasizes writing well-formed, grammatical paragraphs. Focuses on expanding the six basic sentence patterns through modification and compounding, using the writing process, organizing ideas into paragraph form, understanding elements of unity and coherence, and producing narrative, descriptive and expository paragraphs. Intended for students who hold a high school certificate or its equivalent and have previously studied English in the United States or their native countries. May be taken up to three times for credit; course does not count toward GPA/graduation and is non-transferable. Prerequisite: Successful completion of English as a Second Language 0551 or appropriate score on mandatory placement test (4 lecture hours)

ENGLISH AS A SECOND LANGUAGE 0553 Advanced Writing

4 credit hours

Advanced-level academic/professional writing skills for students whose first or primary language is not English. Emphasizes writing well-formed, grammatical essays. Focuses on a review of sentence expansion and modification, the four steps of the writing process, developing research skills, and writing essays in a variety of rhetorical styles. Intended for students who hold a high school certificate or its equivalent and have previously studied English in the United States or their native countries. May be taken up to three times for credit; course does not count toward GPA/graduation and is non-transferable. Prerequisite: Successful completion of English as a Second Language 0552 or appropriate score on mandatory placement test (4 lecture hours)

ENGLISH AS A SECOND LANGUAGE 0661 Beginning Grammar

4 credit hours

Beginning-level academic/professional English grammar and sentence structure for students whose first or primary language is not English. Emphasizes the formal properties of the English language integrated with writing skills. Focuses on identifying sentence parts, complete sentences and fragments; subject/verb agreement; basic statement, imperative and question patterns; and simple present, present continuous, simple past and past continuous tenses. Intended primarily for students who hold a high school certificate or its equivalent and have previously studied English in the United States or their native countries. May be taken up to three times for credit; course does not count toward GPA/graduation and is non-transferable. Prerequisite: Appropriate score on mandatory placement testing (4 lecture hours)

ENGLISH AS A SECOND LANGUAGE 0662

Intermediate Grammar

4 credit hours

Intermediate-level academic/professional English grammar and sentence structure for students whose first or primary language is not English. Emphasizes the formal properties of the English language integrated with writing skills. Focuses on the English system of articles, phrasal verbs, constructions of coordination and modification, and future and perfect tenses. Intended primarily for students who hold a high school certificate or its equivalent and have previously studied English in the United States or their native countries. May be taken up to three times for credit; course does not count toward GPA/graduation and is nontransferable. Prerequisite: Successful completion of English as a Second Language 0661 or appropriate score on mandatory placement test (4 lecture hours)

ENGLISH AS A SECOND LANGUAGE 0663

Advanced Grammar

4 credit hours

Advanced-level academic/professional English grammar and sentence structure for students whose first or primary language is not English. Emphasizes the formal properties of the English language integrated with writing skills. Focuses on conditionals, passive voice, reported speech, verbals, emphatic constructions, performing multiple coordinating and embedding combinations, and varying tenses in discourse. Intended primarily for students who hold a high school certificate or its equivalent and have previously studied English in the United States or their native countries. May be taken up to three times for credit; course does not count toward GPA/graduation and is nontransferable. Prerequisite: Successful completion of English as a Second Language 0662 or appropriate score on mandatory placement test (4 lecture hours)

ENGLISH AS A SECOND LANGUAGE 0771 Beginning Listening and Speaking

4 credit hours

Beginning-level academic/professional listening and speaking skills necessary for formal contexts for students whose first or primary language is not English. Emphasizes aural/oral discourse used in decision-making and problem-solving tasks. Focuses on such areas as listening to college lectures and taking notes, participating in group discussions, pronouncing English sounds correctly, producing English stress and intonation patterns, and preparing short oral presentations. Intended primarily for students who hold a high school certificate or its equivalent and have previously studied English in the United States or their native countries. May be taken up to three times for credit; course does not count toward GPA/graduation and is non-transferable. Prerequisite: Consultation with English as a Second Language adviser prior to registration required (4 lecture hours)

ENGLISH AS A SECOND LANGUAGE 0772 Intermediate Listening and Speaking

4 credit hours

Intermediate-level academic/professional listening and speaking skills necessary for more formal contexts for students whose first or primary language is not English. Emphasizes longer aural/oral discourse used in decisionmaking and problem-solving tasks. Focuses on areas such as listening to extended college lectures and taking notes, applying a range of strategies for participating in group discussions, pronouncing English sounds correctly, producing English stress and intonation patterns, and incorporating techniques to enhance oral presentations. Intended primarily for students who hold a high school certificate or its equivalent and who have previously studied English in the United States or their native countries. May be taken up to three times for credit; course does not count toward GPA/graduation and is nontransferable. Prerequisite: Successful completion of English as a Second Language 0771 or consultation with English as a Second Language adviser prior to registration (4 lecture hours)

ENGLISH AS A SECOND LANGUAGE 0773 Advanced Listening and Speaking

4 credit hours

Advanced-level listening and speaking skills and strategies for professional contexts for students whose first or primary language is not English. Emphasizes analytical skills necessary for assessing alternatives, finding creative solutions, and presenting outcomes effectively. Intended primarily for students who hold a high school certificate or its equivalent and have previously studied English in the United States or their native countries. May be taken up to three times for credit; course does not count toward GPA/graduation and is non-transferable. Prerequisite: Successful completion of English as a Second Language 0772 or consultation with English as a Second Language adviser prior to registration (4 lecture hours)

ENGLISH AS A SECOND LANGUAGE 0881 Language and Culture I

2 to 4 credit hours

Beginning-level academic/professional aural/oral skills and strategies for students whose first or primary language is not English. Emphasizes developing the skills and strategies necessary for social conversations and formal transactions, building an understanding and appreciation of U.S. culture, and enhancing cross-cultural communication. Focuses on such areas as making introductions, initiating, sustaining and ending conversations, explaining personal tastes and preferences, and using the telephone. Addresses the linguistic and cultural instructional needs of non-English-languagebackground students. Intended primarily for students who hold a high school certificate or its equivalent and have previously studied English in the United States or their native countries. May be taken up to three times for credit; course does not count toward GPA/graduation and is nontransferable. Prerequisite: Placement test or consultation with English as a Second Language adviser prior to registration (2 to 4 lecture hours)

ENGLISH AS A SECOND LANGUAGE 0882 Language and Culture II

2 to 4 credit hours

Intermediate-level academic/professional aural/oral skills and strategies for students whose first or primary language is not English. Emphasizes open-ended and problemsolving tasks to generate original conversation within the context of real-life, authentic situations. Focuses on such areas as communicating cross-culturally; making suggestions, expressing feelings, making inquiries,

offering/accepting invitations, gifts and apologies; explaining problems; and agreeing/disagreeing.

Addresses the linguistic and cultural instructional needs of non-English-language-background students. Intended primarily for students who hold a high school certificate or its equivalent and have previously studied English in the United States or their native countries. May be taken up to three times for credit; course does not count toward GPA/graduation and is non-transferable. Prerequisite: Successful completion of English as a Second Language 0881 or consultation with English as a Second Language adviser prior to enrollment (2 to 4 lecture hours)

ENGLISH AS A SECOND LANGUAGE 0883 Language and Culture III

2 to 4 credit hours

Advanced-level academic/professional oral/aural skills and strategies for students whose first or primary language is not English. Emphasizes more complex transactions and conversation management skills in the context of decisionmaking and problem-solving tasks based on real-life, authentic situations. Focuses on such areas as communicating cross-culturally; agreeing, disagreeing and compromising: participating in discussions: explaining complex situations and reporting sequences of events. Addresses the linguistic and cultural instructional needs of non-English-language-background students. Intended primarily for students who hold a high school certificate or its equivalent and have previously studied English in the United States or their native countries. May be taken up to three times for credit; course does not count toward GPA/graduation and is non-transferable. Prerequisite: Successful completion of English as a Second Language 0882 or consultation with English as a Second Language adviser prior to registration (2 to 4 lecture hours)

ENGLISH AS A SECOND LANGUAGE 0950 **Beginning ESL Literacy I**

1 to 5 credit hours

Introduces basic ESL literacy communication skills, including listening, speaking, reading and writing. Emphasis is on aural/oral skills. Mandatory testing. May be taken up to three times for credit; course does not count toward GPA/graduation and is non-transferable. Prerequisite: Consent of instructor (1 to 5 lecture hours)

ENGLISH AS A SECOND LANGUAGE 0951 Beginning ESL Literacy II

1 to 5 credit hours

Completes basic ESL literacy communication skills, including listening, speaking, reading and writing. Emphasis is on aural/oral skills. May be taken up to three times for credit; course does not count toward GPA/graduation and is non-transferable. Prerequisite: Consent of instructor (1 to 5 lecture hours)

ENGLISH AS A SECOND LANGUAGE 0952 **Beginning ESL I**

1 to 5 credit hours

Introduces beginning ESL communication skills, including listening, speaking, reading and writing. Emphasis continues on aural/oral skills. May be taken up to three times for credit; course does not count toward GPA/graduation and is non-transferable. Prerequisite: Consent of instructor (1 to 5 lecture hours)

ENGLISH AS A SECOND LANGUAGE 0953 **Beginning ESL II**

1 to 5 credit hours

Continues beginning ESL communication skills including expanded basic listening, speaking, reading and writing. Emphasis is primarily on aural/oral skills. May be taken up to three times for credit; course does not count toward GPA/graduation and is non-transferable. Prerequisite: Consent of instructor (1 to 5 lecture hours)

ENGLISH AS A SECOND LANGUAGE 0954 **Beginning ESL III**

1 to 5 credit hours

Completes beginning ESL communication skills, necessary to function in the United States. Continues the development of listening, speaking, reading and writing skills. Introduces grammar and structure. May be taken up to three times for credit; course does not count toward GPA/graduation and is non-transferable. Prerequisite: Consent of instructor (1 to 5 lecture hours)

ENGLISH AS A SECOND LANGUAGE 0955 Intermediate ESL I

1 to 5 credit hours

Introduces intermediate ESL communication skills necessary to function in the United States, including listening, speaking, reading and writing. Continues the study of grammar and structure. May be taken up to three times for credit; course does not count toward GPA/graduation and is non-transferable. Prerequisite: Consent of instructor (1 to 5 lecture hours)

ENGLISH AS A SECOND LANGUAGE 0956 Intermediate ESL II

1 to 5 credit hours

Completes intermediate ESL communication skills necessary to function in the United States, including listening, speaking, reading and writing. Continues the study of grammar and structure. May be taken up to three times for credit; course does not count toward GPA/graduation and is non-transferable. Prerequisite: Consent of instructor (1 to 5 lecture hours)

For additional information, call (630) 942-2697, (630) 942-2551 or (630) 942-3697.

FACILITY MANAGEMENT

FACILITY MANAGEMENT 1100 Introduction to Facility Management

3 credit hours

An overview of facility and property management techniques. Topics include the organization of the facilities and property industries, budgeting, standards, labor relations, safety, personnel administration, maintenance (exterior and interior), energy conservation, HVAC systems and space planning. (3 lecture hours)

FACILITY MANAGEMENT 1840 Independent Study – Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

FACILITY MANAGEMENT 2202

Facility Systems – Electrical

3 credit hours

An overview of the electrical systems within a facility and their integration within the total structure. Systems reviewed are lighting distribution, power sources, motor controls and distribution, alarm systems, interior communications, and applicable codes and standards. (3 lecture hours)

FACILITY MANAGEMENT 2203 Facility Systems – Mechanical

3 credit hours

An overview of the mechanical systems within a facility and their integration within the total structure. Systems reviewed are interior and exterior plumbing, waste disposal, heating, ventilation, air conditioning, refrigeration, fire protection, and applicable codes and standards.(3 lecture hours)

FACILITY MANAGEMENT 2215

Facility and Property Management

3 credit hours

Application of master planning, space standards, renovation and relocation of existing facilities with emphasis on major problems confronting professional planners, managers and designers. Prerequisite: Facility Management 1100 or equivalent (3 lecture hours)

For additional information, call Jim Huggins, program coordinator, at (630) 942-3275, or call the Business and Technology division at (630) 942-2592.

FASHION MERCHANDISING AND DESIGN

FASHION MERCHANDISING AND DESIGN 1101 Flat Pattern Drafting I

3 credit hours

Introduction to flat pattern drafting, including draft of personal basic pattern from body measurements for designing purposes, use of drafting tools and simple clothing design. Prerequisite: Fashion Merchandising and Design 1155 or consent of instructor (2 lecture hours, 2 lab hours)

FASHION MERCHANDISING AND DESIGN 1102 Flat Pattern Drafting II

3 credit hours

Advanced principles of flat pattern design, including dress, jacket and pants. Prerequisites: Fashion Merchandising and Design 1101 and 1155; Corequisite: Fashion Merchandising and Design 1156 or consent of instructor (2 lecture hours, 2 lab hours)

FASHION MERCHANDISING AND DESIGN 1105 **Design Principles in Apparel**

3 credit hours

Basic design principles as applied to apparel. The relationship of form to function, analysis of garment design, interpretation of fashion trends, and expression of individuality are emphasized. (2 lecture hours, 2 lab hours)

FASHION MERCHANDISING AND DESIGN 1110 Machine Knitting I

3 credit hours

Principles and techniques of knitting on the single-bed knitting machine. Basic skills are introduced with emphasis on the creative use of color, pattern, texture and fibers in the production of knitted fabrics. (1 lecture hour, 4 lab hours)

FASHION MERCHANDISING AND DESIGN 1112 Machine Knitting II

3 credit hours

Intermediate and advanced techniques on knitting machines. Knit-weave, lace, jacquard, double bed techniques, garment design, and knitting software are introduced. Prerequisite: Fashion Merchandising and Design 1110, or equivalent, or consent of instructor (1 lecture hour, 4 lab hours)

FASHION MERCHANDISING AND DESIGN 1114 Weaving I

3 credit hours

Introduction to the loom as a tool for design and personal expression. Includes selecting yarns, making warps, dressing the loom, designing fabrics, and producing a variety of cloth structures. (1 lecture hour, 4 lab hours)

FASHION MERCHANDISING AND DESIGN 1116 Weaving II

3 credit hours

Development of intermediate and advanced weaving skills on the loom. Twill variations, double weave, lace weave and overshot are introduced. Prerequisite: Fashion Merchandising and Design 1114, or equivalent, or consent of instructor (1 lecture hour, 4 lab hours

FASHION MERCHANDISING AND DESIGN 1120 Fashion Promotion

3 credit hours

Introductory course in preparation, production and merchandising of fashion shows with traditional and creative contemporary approaches. Emphasis on creative use of media in presentation. (2 lecture hours, 2 lab hours)

FASHION MERCHANDISING AND DESIGN 1130 History of Costume I

3 credit hours

History of costume through the ages with emphasis on the Western world. Costumes of antiquity through the 18th century. (3 lecture hours)

FASHION MERCHANDISING AND DESIGN 1131 History of Costume II

3 credit hours

History of costume through the ages with emphasis on the Western world. Eighteenth century through fashions of the future. National and ethnic costume. (3 lecture hours)

FASHION MERCHANDISING AND DESIGN 1151 *Principles of Textiles*

3 credit hours

Identification of yarns, weaves, coloring methods and primary finishes. Analysis of physical and chemical properties of fibers. (2 lecture hours, 2 lab hours)

FASHION MERCHANDISING AND DESIGN 1155 Clothing Construction I

3 credit hours

Emphasis is on basic sewing construction skills, including fundamentals in the selection of fabrics, patterns, fit and construction techniques. (2 lecture hours, 2 lab hours)

FASHION MERCHANDISING AND DESIGN 1156 Clothing Construction II

3 credit hours

Clothing construction course designed for those who are familiar with the operation of a sewing machine, fabric and pattern selection, and basic sewing techniques. Emphasis on professional quality construction techniques. Development of fit techniques for pants and advanced garments. Prerequisite: Fashion Merchandising and Design 1155 or consent of instructor (2 lecture hours, 2 lab hours)

FASHION MERCHANDISING AND DESIGN 1160 Tailoring

3 credit hours

Tailoring course for those who have mastered basic sewing construction techniques. Contemporary methods of tailoring, lining, finishing and working with fabrics that require special handling are emphasized. Prerequisite: Fashion Merchandising and Design 1156 or consent of instructor (2 lecture hours, 2 lab hours)

FASHION MERCHANDISING AND DESIGN 1165 Clothing Construction for the Apparel Industry 3 credit hours

Equipment, practical skills and sewing processes used in apparel manufacturing. Examines efficient and cost-effective procedures for the garment manufacturer or independent designer. Prerequisite: Fashion Merchandising and Design 1156 or consent of instructor (2 lecture hours, 2 lab hours)

FASHION MERCHANDISING AND DESIGN 1180 Business Practices for the Fashion Entrepreneur 3 credit hours

Fundamental decision making for the person in the business of sewing, arts or crafts, includes acquisition of equipment and supplies, legalities, taxes, zoning, insurance, establishing price structures, customer relations, record keeping, financing, trade publications, organizations, advertising and time scheduling. (3 lecture hours)

FASHION MERCHANDISING AND DESIGN 1183 Felting and Fusing

3 credit hours

Concepts and techniques related to dimensional feltmaking through the study of felting fibers, their characteristics and manipulation as a fiber medium. Experimentation in contemporary fusing techniques. (1 lecture hour, 4 lab hours)

FASHION MERCHANDISING AND DESIGN 1800 Experiential Special Topics in Fashion

1 to 3 credit hours

Experiential courses cover topics not otherwise covered by general education courses and other courses in the *Catalog* for the discipline. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of

contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent (to be determined by the disciplines). This experiential component may include field studies, interdisciplinary learning, and/or the practical application of discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics). May be taken up to three times for credit as long as a different topic is selected each time. (3 lecture hours)

FASHION MERCHANDISING AND DESIGN 1820 Selected Topics in Fashion Merchandising

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (3 lecture hours)

FASHION MERCHANDISING AND DESIGN 1821 Selected Topics in Fashion Design

3 credit hours

Exploration and analysis of topics within the discipline. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (2 lecture hours, 2 lab hours)

FASHION MERCHANDISING AND DESIGN 1840 Independent Study in Fashion

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

FASHION MERCHANDISING AND DESIGN 2201 **Draping**

3 credit hours

Design using draping techniques on garment industry dress forms. Introduction to design room standards in draping. Prerequisites: Fashion Merchandising and Design 1102 and 1156 or consent of instructor (2 lecture hours, 2 lab hours)

FASHION MERCHANDISING AND DESIGN 2202 **Design Studio: Apparel**

3 credit hours

Advanced exploration of a theme or advanced techniques to generate portfolio pieces. Prerequisite: Fashion Merchandising and Design 2201 or consent of instructor (2 lecture hours, 2 lab hours)

FASHION MERCHANDISING AND DESIGN 2204 Bridal Couture I: Bridal and Special Occasion

3 credit hours

Study of couture sewing methods for wedding and special occasion dresses. Various specialty fabrics, laces and

equipment are used. Emphasis on inner support in the construction of a dress. Prerequisite: Fashion Merchandising and Design 1156 with a grade of "C" or better, or consent of instructor (2 lecture hours, 2 lab hours)

FASHION MERCHANDISING AND DESIGN 2206 Bridal Couture II: Bridal and Special Occasion 3 credit hours

Advanced couture sewing methods for wedding and special occasion dresses. Advanced embellishment techniques, bustle and train construction. Discussion of the independent bridal couture business. Prerequisite: Fashion Merchandising and Design 2204 (2 lecture hours, 2 lab hours)

FASHION MERCHANDISING AND DESIGN 2208 Millinery Design I

3 credit hours

Creation of custom hats from straw, felt and fabric. Use of professional millinery techniques and supplies. Prerequisite: Fashion Merchandising and Design 1155 or consent of instructor (2 lecture hours, 2 lab hours)

FASHION MERCHANDISING AND DESIGN 2210 Millinery Design II

3 credit hours

Advanced millinery techniques, including pattern drafting, blocking and trims. Prerequisite: Fashion Merchandising and Design 2208 with a grade of "C" or better (2 lecture hours, 2 lab hours)

FASHION MERCHANDISING AND DESIGN 2211 Fashion Illustration

3 credit hours

Fundamentals of drawing as applied to female fashion figure. Emphasis on apparel and accessory illustration. (2 lecture hours, 2 lab hours)

FASHION MERCHANDISING AND DESIGN 2212 Advanced Fashion Illustration

3 credit hours

Emphasis on texture, color, layout and additional figure types. Includes development of portfolio. Prerequisite: Fashion Merchandising and Design 2211 or consent of instructor (2 lecture hours, 2 lab hours)

FASHION MERCHANDISING AND DESIGN 2220 Visual Merchandising

3 credit hours

Survey of creative and technical approaches to window and interior store display. Exploration of standard and innovative techniques in a laboratory setting. (2 lecture hours, 2 lab hours)

FASHION MERCHANDISING AND DESIGN 2222 Computer-Aided Apparel Design I

3 credit hours

Use of the computer in flat pattern drafting and design. Emphasis is on familiarity with the functions of a computer pattern-design system. Prerequisite: Fashion Merchandising and Design 1102, or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

FASHION MERCHANDISING AND DESIGN 2223 Computer-Aided Apparel Design II

3 credit hours

Continuation of Fashion Merchandising and Design 2222 with emphasis on the fashion industry applications of the computerized apparel design system. Basic industrial work flow from design concept through pattern output and garment construction. Prerequisite: Fashion Merchandising and Design 2222, or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

FASHION MERCHANDISING AND DESIGN 2224 **Production Pattern Grading**

3 credit hours

Methods and mechanics of production pattern grading and its applications in the apparel manufacturing process. Emphasis on development of grade rule tables, manual and computerized grading, production specifications, and grading of specific apparel styles. Prerequisite: Fashion Merchandising and Design 1102, or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

FASHION MERCHANDISING AND DESIGN 2231 Fashion Marketing and Merchandising

3 credit hours

Overview of the fashion design and merchandising industries, includes trend analysis, fashion theories, apparel manufacturing, marketing, retailing and buying. Career opportunities are emphasized.

FASHION MERCHANDISING AND DESIGN 2235 Apparel Quality Analysis

3 credit hours

Identification of terminology, manufacturing methods and merchandise quality as they apply to style details, workmanship, construction techniques and wearability of fashion goods. For the professional entering the field of fashion buying and merchandising or product development and manufacturing. (3 lecture hours)

FASHION MERCHANDISING AND DESIGN 2240 Design Studio: Fibers

3 credit hours

Advanced exploration of a theme or advanced techniques to generate fiber portfolio pieces. Prerequisites: Fashion Merchandising and Design 1110 and 1112, or 1114 and 1116 (1 lecture hour, 4 lab hours)

FASHION MERCHANDISING AND DESIGN 2251 **Fashion Motivation**

3 credit hours

Identification of economic and social forces influencing consumer and fashion demand. Color theory and analysis, wardrobing, body type identification, and corporate and personal image. (3 lecture hours)

FASHION MERCHANDISING AND DESIGN 2261 Textile Design I

3 credit hours

Design processes as applied to textiles, covering techniques such as silk screen, block prints and other processes. (1 lecture hour, 4 lab hours)

FASHION MERCHANDISING AND DESIGN 2262

Textile Design II

3 credit hours

Continuation of Textile Design I processes as applied to textiles, includes advanced techniques such as batik, tye dye and resist, silk screen, block prints and other textile printing processes. Prerequisite: Fashion Merchandising and Design 2261 or consent of instructor (1 lecture hour, 4 lab hours)

For additional information, call Sharon Scalise, program coordinator, at (630) 942-2619 or call the Business and Technology division at (630) 942-2592.

FIRE SCIENCE

FIRE SCIENCE 1100

Introduction to Fire Science

3 credit hours

Introduction to the field of fire protection. History, chemistry, fire problems, fire protection, equipment, organization and fire service careers are discussed. (3 lecture hours)

FIRE SCIENCE 1101

Fire Fighter II-A

4 credit hours

For recruit fire fighters to learn the fundamentals of orientation, fire behavior, hose, ladders, safety, extinguishers and self-contained breathing apparatus. Prerequisites: Must be member of a fire department full time, part time, volunteer, paid on call, or a fire brigade. Concurrent enrollment in Fire Science 1102 and 1103 is required, or consent of instructor (2 lecture hours, 4 lab hours)

FIRE SCIENCE 1102

Fire Fighter II-B

4 credit hours

Continuation of Fire Science 1101, including fundamentals of tools, fire streams, forcible entry, overhaul, rescue, ropes and ventilation. Prerequisite: Fire Science 1101 or consent of instructor (2 lecture hours, 4 lab hours)

FIRE SCIENCE 1103

Fire Fighter II-C

4 credit hours

Continuation of Fire Science 1102, including fundamentals of water supply, emergency medical care, alarms, communications, cause and origin, inspections, hazardous materials, salvage and sprinkler systems.

Prerequisite: Fire Science 1102 or consent of instructor (2 lecture hours, 4 lab hours)

FIRE SCIENCE 1104

Fire Fighter III

8 credit hours

Continuation of Fire Science 1101, 1102 and 1103 sequence. For the experienced fire fighter already proficient in the use of equipment, tools and knowledge of organizational functions. Prerequisites: Fire Science 1101, 1102 and 1103, or Fire Fighter II certification, or consent of instructor (4 lecture hours, 8 lab hours)

FIRE SCIENCE 1111

Fire Prevention I

3 credit hours

Study of the causes of fires and the major categories of fire hazards. Analysis of heat source, fuel supply and oxygen supply hazards. Emphasis is placed on recognition and control of all fire hazards. Prerequisite: Fire Science 1100, or equivalent, or consent of instructor (3 lecture hours)

FIRE SCIENCE 1113

Fire Prevention Officer Module A

3 credit hours

Designed for personnel whose duties are inspecting structures, conducting basic fire investigations and performing fire prevention education activities. (3 lecture hours)

FIRE SCIENCE 1114

Fire Prevention Officer Module B

3 credit hours

Continuation of Fire Science 1113, including knowledge of fire codes used in fire prevention and education. Prerequisite: Fire Science 1113 with a grade of "C" or better or consent of instructor (3 lecture hours)

FIRE SCIENCE 1115

Fire Prevention Officer Module C

3 credit hours

Continuation of Fire Science 1114, including development of student skills in public education and fire investigation. Prerequisite: Fire Science 1114 with a grade of "C" or better or consent of instructor (3 lecture hours)

FIRE SCIENCE 1120

Codes and Laws

3 credit hours

Study supplemented by plan reviews of codes and standards that relate to fire prevention and life safety in structures. Includes the relationship between building officials and fire prevention personnel. (3 lecture hours)

FIRE SCIENCE 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

FIRE SCIENCE 2201

Extinguishing and Alarm Systems

3 credit hours

Fixed automatic fire extinguishing, alarm and detection systems. Topics discussed include automatic sprinkler systems, dry chemical, carbon dioxide, and halogenated hydrocarbon agent extinguishing systems. (2 lecture hours, 2 lab hours)

FIRE SCIENCE 2210

Fire Apparatus

3 credit hours

Study of the design, function and operating characteristics of motorized fire apparatus, including evaluation of custom and commercial chassis, power plant and fire pumps, and

cost/benefit approach to apparatus purchasing. (3 lecture hours)

FIRE SCIENCE 2211

Fire Apparatus Engineer

3 credit hours

Continuation of Fire Science 2210. Application and skills necessary to qualify for Fire Apparatus

Engineer/Driver/Operator positions. Meets or exceeds the requirements of National Fire Protection Association (NFPA) 1002, Fire Apparatus Drive/Operator Professional Qualifications. Prerequisite: Fire Science 2210 or consent of instructor (2 lecture hours, 2 lab hours)

FIRE SCIENCE 2215

Building Construction

3 credit hours

Exploration of building construction and design with emphasis on fire safety protection. Analysis of various methods of design, construction and materials. (3 lecture hours)

FIRE SCIENCE 2221

Tactics I

3 credit hours

Principles of coordinating fire ground tactics by utilization of manpower and equipment. Various fire situations presented for analysis and evaluation. Prerequisite: Fire Science 1100 or consent of instructor (3 lecture hours)

FIRE SCIENCE 2222

Tactics II

3 credit hours

Continuation of Fire Science 2221. Fire suppression and rescue tactics employed in multi-company operations, including coordination of mutual aid operations, handling fires in high rise and abandoned structures, churches, transportation problems and natural disasters. Prerequisite: Fire Science 2221 or consent of instructor (3 lecture hours)

FIRE SCIENCE 2230

Hazardous Materials

3 credit hours

Properties of hazardous materials based on practical everyday experiences. Includes flammable liquids, solids, oxidizers and corrosive materials. Emphasis on identifying, labeling, handling, fire fighting, personal hygiene, spill control and sampling equipment. Prerequisite: Fire Science 1100 or consent of instructor (3 lecture hours)

FIRE SCIENCE 2231

Hazardous Materials Operations

3 credit hours

Basic skills needed to evaluate and work defensively at an incident involving the release of a hazardous material for the purpose of protecting persons, property and the environment from the effects of the release. Prerequisite: Fire Science 2230 or consent of instructor (2 lecture hours, 2 lab hours)

FIRE SCIENCE 2232

Hazardous Materials Technician A

3 credit hours

Laws regulating training requirements for the Hazardous Materials Technician A as set forth by Occupational Safety and Health Act (OSHA), Illinois Department of Labor (IDOL), Environmental Protection Agency (EPA), and the National Fire Protection Association (NFPA). Identifies a hazardous material incident, determines the magnitude of the problem, identifies and interprets hazard response information through the use of monitoring equipment. Prerequisites: Fire Science 1104 and 2231, or state equivalents, or consent of instructor (2 lecture hours, 2 lab hours)

FIRE SCIENCE 2233

Hazardous Materials Technician B

3 credit hours

Continuation of Hazardous Materials Technician A involves the analysis and application of rescue procedures, tactics and strategies. Both Hazardous Materials A and B are required to satisfy National Fire Protection Association (NFPA) 472, Department of Labor (DOL), Occupational Safety and Health Act (OSHA), Environmental Protection Agency (EPA), and requirements of 29 Code of Federal Requirements (CFR) 1910.120. Prerequisites: Fire Science 1104 and 2232, or state equivalents, or consent of instructor (2 lecture hours, 2 lab hours)

FIRE SCIENCE 2240

Industrial Safety

3 credit hours

Precautions and safeguards essential for protection of lives and property in various types of occupational establishments. (3 lecture hours)

FIRE SCIENCE 2251

Fire Management I

3 credit hours

Planning, budgeting, organizing and evaluating principles relevant to providing public fire protection services. Prerequisites: Fire Science 1100 and 1103, or consent of instructor (3 lecture hours)

FIRE SCIENCE 2252

Fire Management II

3 credit hours

Continuation of Fire Science 2251. Emphasis is placed on application of principles rather than extension of previously learned theories. Prerequisite: Fire Science 2251 or consent of instructor (3 lecture hours)

FIRE SCIENCE 2253

Fire Management III

3 credit hours

Continuation of Fire Science 2252. Analyzing and organizing personnel assignments, developing personnel policies, preparing capital budgets and fiscal financing, developing public relations programs, and developing management systems for the fire service. Prerequisite: Fire Science 2252 or consent of instructor (3 lecture hours)

FIRE SCIENCE 2254

Fire Management IV

3 credit hours

Continuation of Fire Science 2253. Advanced personnel management, organizing health and safety programs and labor relations. Prerequisite: Fire Science 2253 or consent of instructor (3 lecture hours)

FIRE SCIENCE 2255

Fire Service Instructor I

3 credit hours

Fundamentals as applied to in-service training for fire department personnel. The course meets or exceeds the requirements of the Office of the Illinois State Fire Marshals Division of Career Development and Public Education. (2 lecture hours, 2 lab hours)

FIRE SCIENCE 2256

Fire Service Instructor II

3 credit hours

Curriculum planning, facilities layout and advanced teaching principles. The course meets or exceeds the requirements of the Office of the Illinois State Fire Marshals Division of Career Development and Public Education. Prerequisite: Fire Science 2255 or consent of instructor (2 lecture hours, 2 lab hours)

FIRE SCIENCE 2260

Fire Investigation

3 credit hours

Techniques and procedures for the investigation of fires, including the origin and causes of fires, fire behavior, chemistry of fire, structural fire patterns, detection of arson, role of the investigator and role of the crime laboratory. Prerequisite: Fire Science 1100 or consent of instructor (3 lecture hours)

FIRE SCIENCE 2261

Fire/Arson Investigation I

3 credit hours

Designed for fire investigators to gain knowledge in scene examination, evidence investigation, fire protection technology and sketching. Prerequisite: Fire Science 2260 or consent of instructor (2 lecture hours, 2 lab hours)

FIRE SCIENCE 2262

Fire/Arson Investigation II

3 credit hours

Continuation of Fire Science 2261. Includes motives, communications, case presentations and explosives. Prerequisite: Fire Science 2261 or consent of instructor (2 lecture hours, 2 lab hours)

FIRE SCIENCE 2263

Fire/Arson Investigation III

3 credit hours

Continuation of Fire Science 2262. Includes crime scene photography, evidence collection, accelerant detection canines, arson for profit, and search and seizure. Prerequisite: Fire Science 2262 or consent of instructor (2 lecture hours, 2 lab hours)

FIRE SCIENCE 2271

Emergency Medical Technician-Basic

8 credit hours

Care and handling of the critically ill and injured with an emphasis on the development of student skills in assessment of illness and application of proper emergency care procedures. Prerequisites: Must be at least 18 years old with a high school diploma or equivalent, and pass the Writing Essay Placement Test with a "4," and the Precourse Reading Test with a "1," or consent of instructor (4 lecture hours, 8 lab hours)

FIRE SCIENCE 2272

Paramedic Transition

3 credit hours

Transition course for Emergency Medical Technician-Basic (EMT) seeking Paramedic certification. Prerequisite: Current certification as an EMT-B or consent of instructor (2 lecture hours, 2 lab hours)

FIRE SCIENCE 2273

Vehicle and Machinery Operations

3 credit hours

Introductory step in the acquisition of all knowledge and skills required in the various specialties of extrication. Prerequisite: Fire Science 1103 or consent of instructor (2 lecture hours, 2 lab hours)

FIRE SCIENCE 2274

Paramedic I

8 credit hours

Introduction to advanced emergency medical services, including the role of the paramedic and the ethical and legal aspects that influence field practice skills basic to the care of all patients. Prerequisites: Fire Science 2271, consent of instructor, and acceptance by the hospital (4 lecture hours, 8 lab hours)

FIRE SCIENCE 2275

Paramedic II

8 credit hours

Continuation of Fire Science 2274. Integration of previously learned principles and skills and the introduction of new theory, preparation of the learner for expanded medical responsibilities. Further emphasis on the pharmacological agents and adjunctive equipment utilized in pre-hospital care. Prerequisite: Fire Science 2274 or consent of instructor (4 lecture hours, 8 lab hours)

FIRE SCIENCE 2276

Paramedic III

8 credit hours

Continuation of Fire Science 2275. Practice of paramedicine in the care of patients with cardiovascular disorders. In-depth study in anatomy and pathophysiology relevant to cardiovascular disorders, arrhythmia identification and subsequent treatment. Experiences in telemetry monitoring, emergency department and intensive care unit rotations. Prerequisite: Fire Science 2275 or consent of instructor (4 lecture hours, 8 lab hours)

FIRE SCIENCE 2277

Paramedic IV

8 credit hours

Continuation of Fire Science 2276. Skills and fundamentals for the care of the patient in medical or traumatic emergencies. Emphasis is placed on development of assessment practices and the integration of appropriate treatment modalities in a pre-hospital setting. Prerequisite: Fire Science 2276 or consent of instructor (4 lecture hours, 8 lab hours)

FIRE SCIENCE 2282

EMT Instructor Training

3 credit hours

Designed to give the Emergency Medical Technician-Basic (EMT-B) an overview of the educational process for the

adult learner. Prerequisites: Fire Science 2271, consent of instructor, and approval of Illinois Department of Public Health (IDPH) (2 lecture hours, 2 lab hours)

FIRE SCIENCE 2283

First Responder

3 credit hours

Preliminary level of pre-hospital emergency care that includes cardiopulmonary resuscitation (CPR), monitoring vital signs and control of bleeding. (3 lecture hours)

FIRE SCIENCE 2285

Trauma Patient Assessment

2 credit hours

Primary and secondary assessments of the traumatized patient with discussion of current treatment. Prerequisite: Fire Science 2271 or consent of instructor (2 lecture hours)

FIRE SCIENCE 2286

Pediatric Education for Pre-hospital Professionals 3 credit hours

Develop the skills and knowledge of the pre-hospital professional in the care of ill and injured children. Prerequisite: Fire Science 2271 with a grade of "C" or better or consent of instructor (2 lecture hours, 2 lab hours)

For additional information, call Darryl Haefner, program coordinator, at (630) 942-2107.

FOOD SERVICE ADMINISTRATION

FOOD SERVICE ADMINISTRATION 1100 Introduction to the Hospitality Industry

3 credit hours

Orientation to the hospitality industry, its history and magnitude, organization, challenges and opportunities. Highlights interdependent nature of the public hospitality industry. (3 lecture hours)

FOOD SERVICE ADMINISTRATION 1101 Culinary Arts: Quantity Food Preparation I

5 credit hours

Introduction to basic cooking methods, the identification and use of ingredients and handling of tools and equipment, and also skills and techniques used in cookery. Activities include preparation of basic recipes, cold food items, stocks and soups, and the fundamentals of service. Vegetables and a variety of meat products are included. Prerequisite: Food Service Administration 2220, or equivalent, or concurrent enrollment (2 lecture hours, 6 lab hours)

FOOD SERVICE ADMINISTRATION 1102 Culinary Arts – Quantity Food Prep II

5 credit hours

Continuation of the fundamental concepts and techniques of food preparation. Students rotate through stations in a large commercial kitchen and dining room. Cooking skills are developed through participation in food preparation, production and dining room operations. Basic service skill, concepts and techniques. Prerequisite: Concurrent enrollment in Food Service Administration 1101 (2 lecture hours, 6 lab hours)

FOOD SERVICE ADMINISTRATION 1104 Cake Decorating and Confectionery

2 credit hours

Techniques utilized in the decoration of cakes, pastries and confectionery items produced in retail and hotel pastry shops. Emphasis on the development of skill in the production of quality borders, flowers, lettering and figures. Activities also include sugar molding, image transfers, color and airbrush technique. (4 lab hours)

FOOD SERVICE ADMINISTRATION 1105 Restaurant Concept Development

2 credit hours

An examination of the process that occurs from the conceptualization through the opening of a new restaurant operation, including financial considerations, legal responsibilities, marketing strategies and risk reduction. (2 lecture hours)

FOOD SERVICE ADMINISTRATION 1107 Cake Decorating and Confectionery II

2 credit hours

Techniques utilized in the production of advanced patisserie. Candy chocolate work, pastillage, gumpaste and pulled sugar are emphasized. Modeling and sculpting of chocolate centerpieces. Prerequisite: Food Service Administration 1104 or equivalent (4 lab hours)

FOOD SERVICE ADMINISTRATION 1109 Nutrition for the Food Service Professional

2 credit hours

Introduction of basic nutrition concepts and application of these concepts in menu planning. Emphasis is placed on the role of the food service professional in providing nutritious foods that meet the needs of today's diverse customer groups. (2 lecture hours)

FOOD SERVICE ADMINISTRATION 1110 Basic Nutrition

3 credit hours

Emphasis is placed on normal and clinical nutrition, including many aspects of diet therapy. Presents current information on the relationship of nutrition to health. Prerequisite: Anatomy and Physiology 1500 or equivalent, or concurrent enrollment (3 lecture hours)

FOOD SERVICE ADMINISTRATION 1130 Hospitality Industry Accounting

3 credit hours

Application of basic accounting principles to hospitality establishments. Systems of daily reporting as well as the preparation of periodic accounting statements. Recommended: Accounting 1110 or equivalent, or Accounting 1140 or equivalent (3 lecture hours)

FOOD SERVICE ADMINISTRATION 1151 Food and Beverage Service and Sales

2 credit hours

Principles and techniques necessary for the performance of proper food and beverage service reflecting the variety of operations in the hospitality industry. Laboratory activities provide students an opportunity to develop skills in French, Russian, American, Gueridon and banquet service, as well as the principles of dining room supervision and management. (4 lab hours)

FOOD SERVICE ADMINISTRATION 1152

Food, Beverage and Equipment Purchasing

3 credit hours

Standards of quality as applied to food, beverages, china, glassware, silver, linens, furnishings, equipment and supplies. Purchase specifications and the derivation of written standards. (3 lecture hours)

FOOD SERVICE ADMINISTRATION 1153

Culinary Arts – Garde Manger

3 credit hours

Proper techniques and procedures utilized in pantry and basic garde manger production. Includes the preparation of a variety of salads and dressings, hot and cold sandwiches, and canapés. Charcuterie and other buffet items will be demonstrated and prepared. (6 lab hours)

FOOD SERVICE ADMINISTRATION 1800

Experiential Special Topics

1 to 3 credit hours

Experiential courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent (to be determined by the disciplines). This experiential component may include field studies, interdisciplinary learning, and/or the practical application of discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.) (6 lab hours)

FOOD SERVICE ADMINISTRATION 1822

Selected Food Service Topics

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (1 lecture hour, 4 lab hours)

FOOD SERVICE ADMINISTRATION 1840 Independent Study – Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

FOOD SERVICE ADMINISTRATION 2201

Culinary Arts - Classical Cuisine

4 credit hours

Advanced culinary preparation and service. Emphasizes the history, menu terminology, cooking techniques and presentation of classical French cuisine, including planning, preparation and serving of a formal banquet. Prerequisite: Food Service Administration 1102 or equivalent, or consent of instructor (1 lecture hour, 6 lab hours)

FOOD SERVICE ADMINISTRATION 2202

Food Service Merchandising

2 credit hours

Factors affecting food service and consumer patronage, public relations and the image perception. Stressing the development of and effective use of advertising and promotional media. (2 lecture hours)

FOOD SERVICE ADMINISTRATION 2203

Professional Catering and Banquet Management

3 credit hours

Planning, marketing and associated activities, client relationships, catering and banquet operations, technology, food production, primary and auxiliary services, post event activities, and special events in this diverse industry. Planning, production and execution of events. Includes historical background of banqueting. (3 lecture hours, 3 lab hours)

FOOD SERVICE ADMINISTRATION 2204

Wines of the World

2 credit hours

Survey of the world's leading wines classified by type, suitability for particular use, methods and techniques employed in purchasing, storing and merchandising. Restaurant service staff's role in customer satisfaction is emphasized. Prerequisite: Must be 21 years old (1 lecture hour, 2 lab hours)

FOOD SERVICE ADMINISTRATION 2205

Culinary Arts: International Cuisine

3 credit hours

Survey of selected cuisines from around the world. Research, plan and prepare menus representative of a variety of different cultures. Culture, history and terminology of various international cuisines and their traditional and contemporary cooking techniques. Includes demonstrations and actual production. Prerequisite: Food Service Administration 1101 (1 lecture hour, 4 lab hours)

FOOD SERVICE ADMINISTRATION 2206

Culinary Arts: Asian Cuisine

3 credit hours

Research, planning and preparation of several menus based on authentic Asian recipes and commercial styles of preparation. Emphasis on developing skills in the use of Asian hand tools and cooking equipment. The Chinese regional cuisines of Canton, Peking, Szechwan, Hunan, as well as Japan, are studied and prepared. (1 lecture hour, 4 lab hours)

FOOD SERVICE ADMINISTRATION 2215

Food Service Sanitation License

1.5 credit hour

Recommended for food service industry professionals seeking the State of Illinois license for sanitation. This class will not meet the requirements for any of the Hospitality Administration degrees or certificates. (1.5 lecture hours)

FOOD SERVICE ADMINISTRATION 2220

Food Service Sanitation

2 credit hours

Training in the management of sanitary methods of food handling in all segments of the food service industry. Prepares students for state certification by the Illinois

Department of Public Health Service. This class meets the requirements for Hospitality Administration degrees and certificates. (2 lecture hours)

FOOD SERVICE ADMINISTRATION 2230 Law for the Hospitality Industry

2 credit hours

Introduction to the principles of laws that affect the hospitality industry. Intended to analyze legal consequences from a managerial standpoint. (2 lecture hours)

FOOD SERVICE ADMINISTRATION 2251

Techniques of Supervision

2 credit hours

Principles of effective human relations required by hospitality industry supervisory personnel. Practical skills for effective supervision, including decision making, leadership roles, motivating personnel, recruiting and training employees, conflict resolution, delegation and effective communications. (1 lecture hour, 2 lab hours)

FOOD SERVICE ADMINISTRATION 2261

Beverage Management Operation

2 credit hours

Overview of the commercial beverage service industry. Emphasis on the management and training of personnel to be responsible, professional alcohol servers. Includes the development of product specifications, marketing strategies and purchasing procedures. (2 lecture hours)

FOOD SERVICE ADMINISTRATION 2262 Restaurant Beverage Service: Mixology

2 credit hours

Essential skills of beverage service with emphasis placed on the need for responsible beverage service. Includes the proper use of equipment and techniques used in beverage preparation. (1 lecture hour, 2 lab hours)

FOOD SERVICE ADMINISTRATION 2270 Fundamentals of the Baking Industry

3 credit hours

Modern baking technology, including the duties and responsibilities of the professional baker with emphasis on bakery systems, product management and bakery operations. Bakery specific mathematics. (3 lecture hours)

FOOD SERVICE ADMINISTRATION 2271

Pastry Arts: Baking and Patisserie I

5 credit hours

Fundamentals of baking science, terminology, equipment, technology, ingredients, weights and measures, and formula conversions. Concentration on the production techniques for breads, hard and soft rolls, basic cakes, high ratio cakes, cookies and puff pastry items. (2 lecture hours, 6 lab hours)

FOOD SERVICE ADMINISTRATION 2272

Pastry Arts: Baking and Patisserie II

5 credit hours

Further development of competencies in bake shop operations. Students practice the techniques for production of high ratio cakes, sweet dough products and specialties, and their decoration. Includes sanitation, baking and pastry chemistry, purchasing, cost control and production management. Classical patisserie, including

calligraphy, petit fours, hot and cold desserts, candies, ice creams, specialty tortes and buffet pieces are produced using pastillage, nougat, marzipan, chocolate and pulled sugar. Includes various show piece production.

Prerequisite: Food Service Administration 2271 or concurrent enrollment (2 lecture hours, 6 lab hours)

FOOD SERVICE ADMINISTRATION 2273 Pastry Arts: Baking and Patisserie III

5 credit hours

Advanced study of baking science, terminology, equipment, technology, ingredients, weights and measures, and formula conversions. Concentration on the production techniques for advanced pastries, cakes and tortes. Advanced decorating is stressed. Prerequisite: Food Service Administration 2272 or concurrent enrollment or equivalent (2 lecture hours, 6 lab hours)

For additional information, call Christopher Thielman, program coordinator, at (630) 942-2720, or call the Business and Technology division at (630) 942-2492.

FRENCH

FRENCH 1100

Civilization and Culture of France

3 credit hours

An introduction in English to the culture, geography, history, economics, political institutions, psychology, literature, music and art of present-day France. A survey of the French-speaking world: Canada, North and West Africa, the Caribbean, the South Pacific, Switzerland and Belgium. (3 lecture hours)

FRENCH 1101

Elementary French I

4 credit hours

Develops basic understanding of elements of French language knowledge and skill in pronunciation, vocabulary, grammar and elementary reading and writing. Oral presentations in dialogue form, including role playing are a key part of the course. (4 lecture hours)

FRENCH 1102

Elementary French II

4 credit hours

Continues to develop basic understanding of elements of French language: knowledge and skill in pronunciation, vocabulary, grammar and elementary reading and writing. Oral presentations in dialogue form, including role playing are a key part of the course. For students who have successfully completed French 1101, or equivalent, or one year of high school French. (4 lecture hours)

FRENCH 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

FRENCH 2201

Intermediate French I

4 credit hours

Continues to develop basic understanding of elements of French language: knowledge and skill in pronunciation, vocabulary, grammar, and elementary reading and writing. Oral presentations in dialogue form, including role playing are a key part of the course. For students who have successfully completed French 1102, or equivalent, or two years of high school French. (4 lecture hours)

FRENCH 2202 (IAI H1 900)

Intermediate French II

4 credit hours

Continues to develop basic understanding of elements of French language: knowledge and skill in pronunciation, vocabulary, grammar and elementary reading and writing. Oral presentations in dialogue form, including role playing are a key part of the course. For students who have successfully completed French 2201, or equivalent, or three years of high school French. (4 lecture hours)

FRENCH 2251 (IAI H1 900)

Conversation and Composition I

3 credit hours

Develops French listening comprehension, speaking fluency and writing ability, and encourages students to increase their total understanding of French and French culture. Classes are conducted completely in French. For students who have successfully completed French 2202, or equivalent, or four years of high school French. (3 lecture hours)

FRENCH 2252 (IAI H1 900)

Conversation and Composition II

3 credit hours

Develops French listening comprehension, speaking fluency and writing ability, and encourages students to increase their total understanding of French and French culture. Classes are conducted completely in French. For students who have successfully completed French 2251, or equivalent, or five years of high school French. (3 lecture hours)

FRENCH 2820

Advanced Selected Topics I

3 credit hours

Advanced exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. Prerequisite: At least one course in the discipline or consent of instructor (3 lecture hours)

GENERAL EDUCATION DEVELOPMENT

GENERAL EDUCATION DEVELOPMENT 0800 General Education Development Review

3 credit hours

Prepares adult students to take the G.E.D. Literature and the Arts, Writing, Social Studies, Science, Mathematics and the U.S. Constitution tests. Reviews skills, concepts and information needed for the G.E.D. Focuses on developing independent study habits. Step III in the General Education

Development reading, writing and mathematical skills course sequence. Mandatory testing. May be taken up to four times for credit; course does not count toward GPA/graduation and is non-transferable. Prerequisite: Consent of instructor (3 lecture hours)

GENERAL EDUCATION DEVELOPMENT 0801 Spanish General Education Development Review 3 credit hours

Prepares adult students to take the Spanish General Education Development (GED) Literature and the Arts, Writing, Social Studies, Science Mathematics and the U.S. Constitution tests. Review skills, concepts and information needed for the Spanish GED. Focuses on developing independent study habits. Course is non-transferable and does not count toward GPA/graduation. May be taken up to four times for credit.

GENERAL EDUCATION DEVELOPMENT 0830 General Education Review/U.S./IL Constitution

1 credit hour

Prepares adult students to take the General Education Development (GED) U.S./Illinois Constitution tests. Course is non-transferable and does not count toward GPA/graduation. May be taken up to three times for credit.

For additional information, call (630) 942-2551 or (630) 942-3697.

GEOGRAPHY

GEOGRAPHY 1100 (IAI S4 901)

Western World Regional Geography

3 credit hours

A regional survey of Anglo America, Latin America, Europe, Russia and Australia/New Zealand. Among topics covered are country locations and their physical landscapes, as well as economic and cultural landscapes. Often this course is framed in a political, economic or cultural context. Students may learn about trade agreements, U.S. military interventions and foreign policy, economic globalization, human rights, agriculture, wars, gentrification and other topics. (3 lecture hours)

GEOGRAPHY 1105 (IAI S4 902N)

World Regional Geography: The Eastern World 3 credit hours

A regional survey of the Middle East, Sub-Saharan Africa and Asia. Among topics covered are country locations and their physical landscapes, as well as economic and cultural landscapes. Often this course is framed in a political, economic or cultural context. Students may learn about trade agreements, U.S. military interventions and foreign policy, economic globalization, human rights, agriculture, wars, gentrification and other topics. (3 lecture hours)

GEOGRAPHY 1110

Political Geography

3 credit hours

An exploration of power and space relations. This course explores how political decisions and processes impact people and their environs, as well as the meaning, history, implications, and combinations of the concepts of nation and state. It will explore the background and nature of borders, country shapes, regional conflicts and boundary

disputes, and also compare major political systems and electoral geography. Students will also explore the politics of globalization, trade and trade agreements, and international law. (3 lecture hours)

GEOGRAPHY 1120 (IAI S4 903N)

Economic Geography

3 credit hours

An overview of the spatial distribution of economic activities and resultant economic landscapes. This course includes the study of the Agricultural and Industrial Revolutions, neoliberal and participatory economics, the International Monetary Fund, World Bank and World Trade Organization, Structural Adjustment Programs and the impact of free-market economics on traditional economies are examined. (3 lecture hours)

GEOGRAPHY 1130 (IAI S4 900N)

Cultural Geography

3 credit hours

A study of the spatial relationships among people, culture and the environment. This course covers the spread of cultural elements and their impact on human environments, human modification of the earth, cultural regions, population and migration, spatial patterns of social problems, and environmental hazards and perception. In addition, this course covers "new cultural geography," which analyzes racial ideologies, sexuality, gender and identity, nationalism and geographies of labor. (3 lecture hours)

GEOGRAPHY 1140

Urban Geography

3 credit hours

A geographical examination of settlement patterns, economic activities, usage of space and representations in the urban environment. The form and function of cities are analyzed, as are issues of disenfranchisement and gentrification. (3 lecture hours)

GEOGRAPHY 1151

Geographic Information System I

3 credit hours

An introduction to the fundamentals of Geographic Information Systems (GIS) with examples of applications in various fields. Use GIS software to capture, store, query, analyze and display spatially referenced data such as roads, land parcels and vegetation stands on the Earth's surface. GIS software usage is covered by tutorial exercises in textbook, with assistance by instructor. (2 lecture hours, 2 lab hours)

GEOGRAPHY 1152

General Information System II

3 credit hours

Focuses on the principles of Geographic Information Systems (GIS) and emphasizes building skills using ESRI software. This course includes data structure, assembly of GIS data sets, map symbology, queries, spatial analysis, coordinate systems, projections and map presentations. GIS software usage is covered by tutorial exercises in textbook, with assistance by instructor. Students may also work to develop their own GIS projects. Prerequisite: Geography 1151 or consent of instructor (1 lecture hour, 4 lab hours)

GEOGRAPHY 1153

Applied General Information System

3 credit hours

An opportunity for students to learn through real-life GIS projects developed by public safety officials, public works departments, planners and other industry professionals. Prerequisites: Proficiency with the Windows operating system required; Geography 1151 and 1152 or consent of instructor (1 lecture hour, 4 lab hours)

GEOGRAPHY 1800

Experiential Special Topics

1 to 3 credit hours

Experiential courses cover topics not otherwise covered by general education courses and other courses in the Catalog for geography. These courses require direct experience and focused reflection in an in-depth study of a specific geographic topic and/or the critical analysis of contemporary issues in geography. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent. This experiential component may include field studies, interdisciplinary learning, and/or the practical application of disciplinerelated concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.)

GEOGRAPHY 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

GEOGRAPHY 2204

Russia

3 credit hours

This course examines the diverse geographic aspects of Russia and the former Soviet Union. The interrelationship between people and their geographic environments physical, social, economic, political, demographic and cultural — are considered. Students are expected to learn basic place names, to understand geographic relationships and concepts as found in Russia and the former Soviet Union, and to think geographically about this region. (3 lecture hours)

GEOGRAPHY 2205

The Slavic Lands

3 credit hours

A survey of the natural, social and historical features of the Slavic nations of Eastern Europe and Asia (including Russia, Ukraine, Poland, the Czech Lands, Slovakia, Bulgaria and the South Slavic peoples of the former Yugoslavia). These lands are examined in terms of their level and nature of economic development, social complexity and prevailing political ideologies. The futures of these nations and peoples are a prime topic of analysis. Extensive attention is given to the Balkanization of the former Yugoslavia, the wars of Eastern Europe, the recent genocides and the NATO response. The admittance of the Eastern European states to the European Union is also studied. (3 lecture hours)

GEOGRAPHY 2210

United States and Canada

3 credit hours

A regional survey of the United States and Canada. Topics may include: agriculture, manufacturing, the territorial expansion of the United States, Quebec separatism, the North American Free Trade Agreement (NAFTA), gentrification and urbanization. (3 lecture hours)

GEOGRAPHY 2220

Latin America

3 credit hours

A geographical exploration and analysis of Latin America. In this survey course, students examine Latin America and its nations through the eyes of a geographer. An array of topics are discussed, ranging from physical landscapes and locations of cities and countries to U.S. foreign policy towards the region. Students should expect extensive discussion regarding the roles of the International Monetary Fund, World Bank and Inter-American Development Bank in shaping the region and discussion of trade agreements such as the Uruguay Round, the North American Free Trade Agreement, the Central American Free Trade Agreement, and the Free Trade Area of the Americas. In addition, this course covers migration issues, and the intervention of the United States in Panama, Colombia and elsewhere, including discussion of the 1954 CIA overthrow of the government of Guatemala. (3 lecture hours)

GEOGRAPHY 2221

Mexico

3 credit hours

A geographical exploration and analysis of Mexico. Topics covered may include physical landscape, economic conditions, the "War on Drugs," Structural Adjustment and the International Monetary Fund, the North American Free Trade Agreement, the militarization of the U.S.-Mexico border, the Mexican Diaspora, and Mexican communities in the United States. (3 lecture hours)

GEOGRAPHY 2223

Colombia

3 credit hours

A geographical exploration and analysis of Colombia. Topics covered may include physical landscape, economic conditions, the "War on Drugs" and U.S.-led counterinsurgency in the Andean nations, oil exploitation, the role of the International Monetary Fund, World Bank, World Trade Organization, and Inter-American Development Bank in shaping the country, and U.S. foreign policy. (3 lecture hours)

GEOGRAPHY 2224

Juarez: The Laboratory of Our Future

3 credit hours

This course explores Ciudad Juarez, Mexico, and attempts to deconstruct the city. Explores issues leading to mass influx of individuals to Juarez from the Mexican countryside, and the ongoing femicide. (A field study may

be included as part of this course). When this course is offered as a field study, students must meet the legal requirements for entry into Mexico and return to the United States. (2 lecture hours, 2 lab hours)

GEOGRAPHY 2235

The Middle East

3 credit hours

A geographical exploration and analysis of the Middle East. This course provides a survey of the region through a geographic perspective. Included are country locations and discussion of physical features, the Israeli-Palestinian conflict, U.S. foreign policy towards the region, the exploitation of resources (particularly oil), U.S. interventions in Iraq, Iran and Afghanistan, and discussion relating to the "War on Terror" and the rise of "radical Islam." (3 lecture hours)

For additional information regarding Geography, call Joel Quam at (630) 942-3143, Keith Yearman at (630) 942-2765, or Scott Campbell at (630) 942-2060.

GERMAN

GERMAN 1100

German Civilization and Culture

3 credit hours

Introduction in English to the culture, history, political institutions, mentality, literature, art and economic development of present-day Germany and other Germanspeaking countries. (3 lecture hours)

GERMAN 1101

Elementary German I

4 credit hours

Develops the ability to speak, understand, read and write German in a cultural context. For the beginning student. (4 lecture hours)

GERMAN 1102

Elementary German II

4 credit hours

Continues the development of the ability to speak, understand, read and write German in a cultural context. For students who have successfully completed German 1101, or equivalent, or one year of high school German. (4 lecture hours)

GERMAN 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

GERMAN 2200 (IAI H3 909)

Modern German Literature in Translation

3 credit hours

Survey of modern German literature with attention given to the historical and cultural trends of modern Germany. All works are read in English; no knowledge of German required. (3 lecture hours)

GERMAN 2201

Intermediate German I

4 credit hours

Develops students' ability to speak, understand, read and write German in a cultural context. Includes reading and discussion of modern texts, conversation, composition, grammar review and cultural activities. For students who have successfully completed German 1102 or equivalent or two years of high school German. (4 lecture hours)

GERMAN 2202 (IAI H1 900)

Intermediate German II

4 credit hours

Continues to develop students' ability to speak, understand, read and write German in a cultural context. Includes reading and discussion of modern texts, conversation, composition, grammar review and cultural activities. For students who have successfully completed German 2201, or equivalent, or three years of high school German. (4 lecture hours)

GERMAN 2251 (IAI H1 900)

Conversation and Composition I

3 credit hours

Develops students' listening, speaking, reading and writing skills and expands knowledge of the culture and civilization of German-speaking countries. Classes are conducted completely in German. For students who have successfully completed German 2202, or equivalent, or four years of high school German. (3 lecture hours)

GERMAN 2252 (IAI H1 900)

Conversation and Composition II

3 credit hours

Develops students' listening, speaking, reading and writing skills and expands knowledge of the culture and civilization of German-speaking countries. Classes are conducted entirely in German. For students who have successfully completed German 2251, or equivalent, or five years of high school German. (3 lecture hours)

GERMAN 2820

Advanced Selected Topics I

3 credit hours

Advanced exploration and analysis of selected topics with a specific theme indicated by course title listed in college Class Schedule. May be taken three times for credit as long as different topics are selected. Prerequisite: At least one course in the discipline or consent of instructor (3 lecture hours)

GRAPHIC ARTS TECHNOLOGY

GRAPHIC ARTS TECHNOLOGY 1101 Printing Methods and Processes

3 credit hours

Basic principles, materials and equipment used in the major printing processes, as well as beginning skills in digital prepress publishing and offset print production techniques. Emphasis is placed on page layout software, typography, scanning line art and continuous tone images, file formats, direct-to-plate output, press operation and bindery techniques. (1 lecture hour, 5 lab hours)

GRAPHIC ARTS TECHNOLOGY 1102

Introduction to Graphic Publishing Applications

3 credit hours

This course provides the basic skills necessary to utilize the three main publishing software applications: QuarkXPress, Adobe Illustrator and Adobe Photoshop. Students are instructed on the fundamentals of the Macintosh operating system, as well as basic document setup, creation and printing. Typography, scanning and color correction are also included. This foundations course allows for future study of the individual software programs used in the graphic. imaging and publishing industries. (1 lecture hour, 5 lab hours)

GRAPHIC ARTS TECHNOLOGY 1103

Press Operation

3 credit hours

Operation and maintenance of a variety of small- and medium-sized offset presses combining the study of safety, maintenance, feeders, register systems, deliveries, dampening units and inking systems. This hands-on course prepares print production students to interpret the relationships between color and registration techniques as they relate to the press. Color proofing and print progressives are prepared, along with multi-color projects for portfolio pieces. Prerequisite: Graphic Arts Technology 1101 or consent of instructor (1 lecture hour, 5 lab hours)

GRAPHIC ARTS TECHNOLOGY 1104 Binding and Finishing

2 credit hours

An overview of the basic binding and finishing techniques used in the printing industry. Techniques for paper handling and imposition, folding, trimming, stitching, binding methods, and many finishing processes are discussed. Lecture, demonstration and industry tours. Prerequisite: Graphic Arts Technology 1101 or consent of instructor (2 lecture hours)

GRAPHIC ARTS TECHNOLOGY 1160

Color Reproduction Techniques

3 credit hours

This course examines the fundamentals of color theory. measurement, color management, color psychology and proofing systems using manipulation software. Students explore digital and conventional printing, demonstrate file preparation for color, use various output systems, paper specifications and digital workflow for successful color control. Prerequisites: Graphic Arts Technology 1101 and 1102 or consent of instructor (1 lecture hour, 4 lab hours)

GRAPHIC ARTS TECHNOLOGY 1183 Digital Page Layout: QuarkXPress

3 credit hours

This course provides the basic skills necessary to utilize QuarkXPress page layout software on a Macintosh operating system for digital prepress production. Master pages, templates, style sheets, typographic controls, color separation, multi-page document construction and graphic importing are included. Prerequisites: Graphic Arts Technology 1101, 1102 and general keyboarding skills or consent of instructor (1 lecture hour, 5 lab hours)

GRAPHIC ARTS TECHNOLOGY 1185 Digital Page Layout: Adobe InDesign

3 credit hours

This course provides the basic skills necessary to utilize Adobe InDesign software on a Macintosh operating system for digital prepress production. Drawing tools, templates, gradient construction, style sheets, typographic controls, layers, color separations, pdfs and graphic importing are included. Prerequisite: Graphic Arts Technology 1102 or equivalent, and general keyboarding skills or consent of instructor (1 lecture hour, 5 lab hours)

GRAPHIC ARTS TECHNOLOGY 1186 Production Illustration: Adobe Illustrator

3 credit hours

This course provides the basic skills necessary to utilize Adobe Illustrator software on a Macintosh operating system to produce vector graphics for digital prepress production. Trapping and color separation are included. Prerequisite: Graphic Arts Technology 1102 or consent of instructor (1 lecture hour, 5 lab hours)

GRAPHIC ARTS TECHNOLOGY 2201

Advanced Press Operation

4 credit hours

Advanced operation and maintenance of sheetfed offset presses and duplicators. Techniques of printing multicolor jobs and registration requirements for production are utilized. The relationship of rollers, ink, chemicals, blankets and the dampening system to produce quality offset printing will be examined. Prerequisites: Graphic Arts Technology 1103 and 1160 or consent of instructor (2 lecture hours, 5 lab hours)

GRAPHIC ARTS TECHNOLOGY 2230 Graphic Arts Business Practices

3 credit hours

This course examines planning, organization, inventory control, business ethics, problem solving and motivation as they relate to managing print and publishing companies. Instruction will include interpreting specifications, computerized pricing for profit margin, preparing electronic quotations, trade, OSHA, copyright law, and extensive cost analysis using estimating software. Prerequisites: Graphic Arts Technology 1101, 1102 and 1160 or consent of instructor (1 lecture hour, 5 lab hours)

GRAPHIC ARTS TECHNOLOGY 2240

Advanced Digital Page Layout: QuarkXPress

3 credit hours

This course provides the advanced skills necessary to utilize QuarkXPress page layout software on the Macintosh operating system for color digital prepress production. Advanced typographic and image controls, in-line graphics, tables, rules, complex multi-page document construction and file exporting are included. Prerequisite: Graphic Arts Technology 1183 and general keyboarding skills or consent of instructor (1 lecture hour, 5 lab hours)

GRAPHIC ARTS TECHNOLOGY 2245

Digital Prepress Imaging: Adobe Photoshop

3 credit hours

Creation and preparation of grayscale and full-color images for print, including color correction and compositing of images using Adobe Photoshop. Scanning

of line art and continuous tone photographs is explored. Students create print-ready halftones, duotones and images to be utilized for classroom projects, following industry standards and guidelines for print production. Prerequisites: Graphic Arts Technology 1101, 1102 and 1160 or consent of instructor (1 lecture hour, 5 lab hours)

GRAPHIC ARTS TECHNOLOGY 2254

Advanced Digital Imaging: Adobe Photoshop

3 credit hours

This course explores advanced production techniques using Adobe Photoshop for the production of images for print. Production techniques used in industry applications are featured. Color correction, image manipulation and image enhancement tips and techniques are utilized to create files used in the graphic, imaging and publishing industries. Prerequisite: Graphic Arts Technology 2245 or consent of instructor (1 lecture hour, 5 lab hours)

GRAPHIC ARTS TECHNOLOGY 2265

Web Publishing

3 credit hours

Course explores planning, creation and implementation of basic web construction techniques to create a functional web site. Site mapping, interface production and site creation are covered. Construction of a site utilizing webpage editing software to produce templates, library items, tables, layers, frames, forms and HTML and CSS styles sheets. Creating, processing and optimizing graphics are stressed. Prerequisites: Graphic Arts Technology 1183 and 2245 or consent of instructor (1 lecture hour, 5 lab hours)

GRAPHIC ARTS TECHNOLOGY 2270

Advanced Production Illustration: Adobe Illustrator 3 credit hours

This course provides the advanced production skills necessary to utilize Adobe Illustrator software and other graphic resources on a Macintosh operating system to produce complex vector graphics for color digital prepress production. Prerequisites: Graphic Arts Technology 1186 and 2245 or consent of instructor (1 lecture hour, 5 lab hours)

GRAPHIC ARTS TECHNOLOGY 2275

Capstone: Print Production

4 credit hours

A capstone course covering the principles and practical applications of production skills learned in previous courses, including troubleshooting, interviewing skills, product specifications and problem solving associated with multi-member work groups. Prerequisites: Graphic Arts Technology 2201, 2220 and 2230 or consent of instructor (1 lecture hour, 6 lab hours)

GRAPHIC ARTS TECHNOLOGY 2280

Capstone: Digital Prepress Production

3 credit hours

Capstone course of the Desktop Prepress Program assesses student competencies through problem-solving activities of the graphic arts industry. Students focus on skill reinforcement and portfolio development. Permit required. Prerequisites: Graphic Arts Technology 1101, 1102, 1103, 1160, 1186, 2240 and 2245 or consent of instructor (1 lecture hour, 5 lab hours)

GRAPHIC ARTS TECHNOLOGY 2285

Advanced Digital Page Layout: Adobe InDesign

3 credit hours

Develops the advanced skills necessary to utilize Adobe InDesign software on a Macintosh operating system for digital prepress production. Advanced typographic and image controls, in-line graphics, tables, rules, complex multi-page document construction and file exporting are included. Prerequisite: Graphic Arts Technology 1185 with a grade of "D" or better, or equivalent, and consent of instructor (1 lecture hour, 5 lab hours)

GRAPHIC ARTS TECHNOLOGY 2820

Advanced Selected Topics I

3 credit hours

Advanced exploration and analysis of selected topics with a specific theme indicated by course title listed in *Class Schedule*. May be taken three times for credit as long as different topics are selected. Prerequisite: At least one course in the discipline or consent of instructor (3 lecture hours)

GRAPHIC ARTS TECHNOLOGY 2821

Advanced Selected Topics II

3 credit hours

Advanced exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. Prerequisite: At least one course in the discipline or consent of instructor (2 lecture hours, 2 lab hours)

For additional information, call David Rogers, (630) 942-3029.

GRAPHIC DESIGN

GRAPHIC DESIGN 1100

Drawing for Design

3 credit hours

Foundation of drawing illustrative matter for commercial applications using various materials and techniques appropriate to the field of graphic design and illustration. Emphasis on visualization and sketching of concepts. (6 lab hours)

GRAPHIC DESIGN 1102

Graphic Design I

3 credit hours

Introduces the basic principles and elements of graphic design, the history of graphic design, form/symbol development, typography and color theory. Provides practical experience in essential studio processes and procedures, critiques and group discussions. (6 lab hours)

GRAPHIC DESIGN 1104

Typography

3 credit hours

Introduction to typographic history, study of letterforms, terms, classifications and typeface selection. Exploration of type mechanics and aesthetics, using type in a variety of design applications. Examines structure, layout, and information hierarchy, as well as the relationship of type to image and cultural context. Prerequisite: Graphic Design

1102 with a grade of "C" or better, or equivalent, or consent of instructor (6 lab hours)

GRAPHIC DESIGN 1105

Graphic Design II

3 credit hours

An exploration of graphic design through the integration of typography and imagery from planning, conceptualization and creation, through management of content for a variety of projects. Major themes include contrast and fusion of graphic form, text/image collage, hierarchy, grid systems and extended layouts. Critiques and discussions of professional work, including traditional structures of books, catalogs, magazines and brochures. Emphasizes the use of Adobe InDesign in creating projects. Prerequisite: Graphic Design 1102 with a grade of "C" or better, or equivalent, or consent of instructor (6 lab hours)

GRAPHIC DESIGN 1106

Three-Dimensional Design

3 credit hours

Design and construction of three-dimensional forms such as packaging, exhibits and displays. Students will conceptualize and develop preliminary construction plans, and build mock-ups of three-dimensional communication design projects using a variety of materials and techniques. Prerequisite: Graphic Design 1102 with a grade of "C" or better, or equivalent, or consent of instructor (6 lab hours)

GRAPHIC DESIGN 1107

Digital Illustration I

3 credit hours

An introduction to creating digital images for use in graphic design. Use of computers and current software to develop illustrative projects. Focus on originality of imagery and image creation techniques, including collage, montage, and mixed media to create professional quality images. Emphasis on the use of Adobe Photoshop and/or other raster-oriented software in creating projects. Prerequisite: Graphic Design 1102 with a grade of "C" or better, or equivalent, or consent of instructor (6 lab hours)

GRAPHIC DESIGN 1108

Digital Illustration II

3 credit hours

Focuses on the originality of imagery and image creation techniques, including collage, montage, and mixed media to create professional quality images. Emphasis on the use of Adobe Illustrator and/or other vector-based software in creating illustration projects. Prerequisite: Graphic Design 1102 with a grade of "C" or better, or equivalent, or consent of instructor (6 lab hours)

GRAPHIC DESIGN 2201

Graphic Design III

3 credit hours

Development of visual identity systems for organizations and corporations applied to print, web and broadcast media. Focuses on how organizations use identity design to express core values and impact consumer perceptions of brand. Processes include research, conceptualization, image, type generation, layout, presentation and evaluation. Prerequisite: Graphic Design 1105 with a grade of "C" or better, or equivalent, or consent of instructor (6 lab hours)

GRAPHIC DESIGN 1820

Selected Topics in Graphic Design

2 credit hours

Critical discussion, review and analysis of a selected topic in advertising, design or illustration. Completion of projects appropriate to the selected topic. Topic is specified in the subtitle of the course listed in the *Class Schedule*. May be taken up to three times for credit as long as a different topic is selected each time. Prerequisite: Any 1100-level Graphic Design course or consent of instructor (1 lecture hour, 2 lab hours)

GRAPHIC DESIGN 1821

Selected Topics in Graphic Design

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in the *Class Schedule*. May be taken three times for credit as long as different topics are selected. Prerequisite: Any 1100-level Graphic Design course or consent of instructor (1 lecture hour, 2 lab hours)

GRAPHIC DESIGN 1840

Independent Study — Individualized

2 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline, and methods of evaluation in coordination with, and approved by the instructor. May be taken up to three times for credit as long as a different topic is selected each time. Prerequisite: Consent of instructor (1 to 4 lecture hours)

GRAPHIC DESIGN 2202

Web/Interactive Design I

3 credit hours

Designing for interactivity in environments such as the web, kiosks, portfolios, games and DVDs. Examination of interactive design workflow. Fundamentals of designing HTML-based web pages, prototypes, and web sites utilizing Adobe Creative Suite and other applications. Development of conceptual skills in interactivity and organization of content into web sites. Create, prepare and manipulate documents, illustrations, and images for the web. Prerequisites: Graphic Design 1102 with a grade of "C" or better, or equivalent, or consent of instructor, and Graphic Design 1107 with a grade of "C" or better, or equivalent, or consent of instructor (6 lab hours)

GRAPHIC DESIGN 2203

Advertising Design

3 credit hours

Introduction to creative brief writing, concept development, brand positioning, client/agency relationship, copywriting and research methods. Study of cultural, social, and psychological aspects of advertising design, including consumer behavior and effects of globalization. Survey and development of advertising design for various media, including print, broadcast, direct mail, packaging, and point-of-purchase. Prerequisite: Graphic Design 1102 with a grade of "C" or better, or equivalent, or consent of instructor (6 lab hours)

GRAPHIC DESIGN 2204

Digital Illustration III

3 credit hours

Continues the development of skills necessary to create illustration projects. Uses a combination of traditional drawing skills and current industry standard vector/raster-based software, such as Adobe Illustrator and Photoshop. Prerequisite: Graphic Design 1108 with a grade of "C" or better, or equivalent, or consent of instructor (6 lab hours)

GRAPHIC DESIGN 2205

Graphic Design IV

3 credit hours

Studies communication of ideas and information through symbols, images, illustration, and typography as applied to print, new media, and other types of graphic design projects. Emphasis on professional design, illustration processes and presentation skills. Practical application of design theory in a simulated design studio/agency environment. Prerequisite: Graphic Design 2201 with a grade of "C" or better, or equivalent, or consent of instructor (6 lab hours)

GRAPHIC DESIGN 2206

Web/Interactive Design II

3 credit hours

Development of web and interactive design concepts and processes through advanced projects. Planning and development of web site design, digital portfolio, mobile interface design, menus, screens, and Flash-based sites are explored using current authoring tools and techniques. Use of Adobe Flash is emphasized in creation of projects. Prerequisite: Graphic Design 2202 with a grade of "C" or better, or equivalent, or consent of instructor (6 lab hours)

GRAPHIC DESIGN 2207

New Media Design

3 credit hours

Integration of graphic form, typography, and message with manipulation of movement, time, sequence and sound. Development of non-print, new media communication design through demonstrations, critiques, presentations, and hands-on experience with pertinent software. Prerequisite: Graphic Design 1102 with a grade of "C" or better, or equivalent, or consent of instructor (6 lab hours)

GRAPHIC DESIGN 2208

Portfolio Seminar

3 credit hours

Capstone course in the development of a personal portfolio of communication design projects. Emphasizes creative self-assessment, portfolio preparation, written communication, presentation, interview and job search skills. Review of professional portfolio work and exploration of career opportunities in communication design. Students will demonstrate their understanding of design principles and creative problem-solving abilities through a portfolio of professional quality work. Prerequisite: Graphic Design 2201 with a grade of "C" or better, or equivalent, or consent of instructor (6 lab hours)

GRAPHIC DESIGN 2210

Cartooning

3 credit hours

Creation of original written and illustrated cartoons exploring a variety of formats, including greeting cards, editorials, products, spot illustrations, characters and comics. Materials and techniques to implement comic art includes sketching, penciling, inking, lettering and coloring. Emphasis on details that define and individualize cartoons, leading to clear and concise techniques for conveying stories, humor and concepts. Prerequisite: Graphic Design 1100, or ART 1101 with a with a grade of "C" or better, or equivalent, or consent of instructor (6 lab hours)

GRAPHIC DESIGN 2211

Storyboarding/Sequential Art

3 credit hours

Study of storytelling theories and techniques of art for graphic novels, comic books, comic strips, children's books, and storyboards for animation and film. Includes development of scripts, storyboarding, penciling, inking, digitizing and computer coloring. Prerequisite: Graphic Design 2210 with a grade of "C" or better, or equivalent, or consent of instructor (6 lab hours)

HEALTH INFORMATION TECHNOLOGY

HEALTH INFORMATION TECHNOLOGY 1101 Fundamentals of Health Information Technology 4 credit hours

Introduction to the role of health information technicians and the health information field. Covers numbering, filing, indexing and professionals in health care. Health record content in hospitals and other types of health care facilities. Internal and external agency requirements for all types of health care facility records. (3 lecture hours, 2 lab hours)

HEALTH INFORMATION TECHNOLOGY 1102 Clinical Classification Systems

5 credit hours

Study of nomenclature and classification of systems, including coding and abstracting. Introduction to International Classification of Diseases (ICD) coding principles. Prerequisites: Health Information Technology 1101 and Anatomy and Physiology 1500 or consent of instructor (4 lecture hours, 2 lab hours)

HEALTH INFORMATION TECHNOLOGY 1103 Computerized Health Data and Statistics

4 credit hours

Study of statistical data, including hospital census. Electronic information processing and health information systems. Study of the computerized patient record. Computer applications to health data, including abstracting, master patient index and medical transcription. Prerequisites: Health Information Technology 1101 and concurrent enrollment in Computer Information Systems 1150 or consent of instructor (3 lecture hours, 2 lab hours)

HEALTH INFORMATION TECHNOLOGY 1107 **C.P.T. Coding**

3 credit hours

An introduction to the Current Procedure Terminology (CPT) coding system for procedures in ambulatory care and services rendered by physicians. Emphasis is on the six sections of the CPT book. An introduction of Center for Medicare/Medicaid (CMS) Services' Common Procedure Coding System (HCPCS) is included. Prerequisite: Health Sciences 1110 or consent of instructor (3 lecture hours)

HEALTH INFORMATION TECHNOLOGY 1120 *ICD Coding for Physicians*

3 credit hours

An introduction to International Classification of Diseases (ICD) for reimbursement for physician office services.

Prerequisite: Health Sciences 1110 or consent of instructor (2 lecture hours, 2 lab hours)

HEALTH INFORMATION TECHNOLOGY 1121 *Billing in Physician Offices*

3 credit hours

An overview of medical office procedures, including billing, scheduling, legalities and office protocol. Prerequisites: Health Information Technology 1107 and 1120 or consent of instructor (2 lecture hours, 2 lab hours)

HEALTH INFORMATION TECHNOLOGY 1125 Clinical Reimbursement Methodologies

3 credit hours

Study of health care reimbursement, prospective payment systems and case mix analysis. The use of coded data and health information in reimbursement systems appropriate to all health care settings is explored. Prerequisite: Health Information Technology 1102 or consent of instructor (2 lecture hours, 2 lab hours)

HEALTH INFORMATION TECHNOLOGY 2201 Legal and Qualitative Aspects of Health Information 5 credit hours

Privacy standards, confidentiality, case law, performance improvement, utilization management, risk management, medical staff credentialing as well as accreditation standards are explored. Prerequisites: Health Information Technology 1103 or consent of instructor (4 lecture hours, 2 lab hours)

HEALTH INFORMATION TECHNOLOGY 2202 Management of Health Information

3 credit hours

Supervisory techniques and professional relationships. Knowledge and skills relevant to operating a health record department are emphasized. Human resource issues, procedures, equipment, forms and office systems are also reviewed. Prerequisite: Health Information Technology 2201 or consent of instructor (2 lecture hours, 2 lab hours)

HEALTH INFORMATION TECHNOLOGY 2203 Pharmacology for HIT Professionals

3 credit hours

General introduction to pharmacological concepts. Focus on fundamental concepts of drug classification, adverse reactions, poisoning and management of common diagnoses. Prerequisite: Health Information Technology 2211 or consent of instructor (2 lecture hours, 2 lab hours)

HEALTH INFORMATION TECHNOLOGY 2211 Pathophysiology for Health Information

4 credit hours

Study of the origin, identification and classification of diseases of the human body. Emphasis on etiology, manifestations, diagnostic finding and treatment. Prerequisite: Anatomy and Physiology 1500 or consent of instructor (4 lecture hours)

HEALTH INFORMATION TECHNOLOGY 2221 Clinical I

3 credit hours

Supervised clinical experiences in a variety of health information settings. Application of health information science theory is emphasized. Prerequisite: Health Information Technology 1103 or consent of instructor (1 lecture hour)

HEALTH INFORMATION TECHNOLOGY 2223 Medical Transcription I

3 credit hours

Transcription of physician dictation, including medical reports commonly used by physicians. These include history and physicals, surgeries and consultations. Prerequisites: Health Sciences 1110 with a grade of "B" or better and concurrent enrollment in Anatomy and Physiology 1500, or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

HEALTH INFORMATION TECHNOLOGY 2224 Medical Transcription II

3 credit hours

Continuation of Medical Transcription I. Transcription of medical dictation into usable copy format. Includes transcription of non-native-speaking physicians. Prerequisite,: Health Information Technology 2223 and Anatomy and Physiology 1500 or consent of instructor (2 lecture hours, 2 lab hours)

HEALTH INFORMATION TECHNOLOGY 2231 Clinical II

5 credit hours

Continuation of clinical lab experience in primary care and secondary sites. Prerequisites: Health Information Technology 2221 and 2201 or consent of instructor (1 lecture hour, 16 lab hours)

Both Health Information Technology and Medical Transcription have special admission requirements and a separate application process. For further information about Health Information Technology, call Kim Pack, program coordinator, at (630) 942-2532. For information about Medical Transcription, call Paulette Buckingham at (630) 942-3348.

HEALTH SCIENCES

HEALTH SCIENCES 1100

Survey of Health Care Careers

2 credit hours

An exploration of various allied health professions, including diagnostic, medical information, rehabilitation, and patient care services through classroom and field experience. (2 lecture hours)

HEALTH SCIENCES 1105

Nurse Assistant

6 credit hours

State approved Certified Nursing Assistant Program that provides instruction on the basic nursing skills needed to assist the professional nurse. Skills include all elements of personal care, vital signs, body mechanics, safety measures, resident's rights, infection control,

communication and observation. Exploration of geriatric and Alzheimer's patients included. Prerequisite: Reading Placement Test with a score in category one. Writing Placement Essay with a score of four. (3 lecture hours, 4 lab hours, 3 clinical hours)

HEALTH SCIENCES 1110

Biomedical Terminology

4 credit hours

Introduction of medical terms for each body system and specialty medical field. Includes word roots, prefixes and suffixes commonly encountered in the health care field. Previous medical background unnecessary. (4 lecture hours)

HEALTH SCIENCES 1115

Pharmacy Technician

5 credit hours

Overview of the role and fundamental skills necessary for a professional pharmacy technician. Exploration of pharmacy abbreviations, calculations, drug classifications, basic anatomy and physiology, disease states, drug interactions and prescription processing is included. Prerequisite: High school diploma or GED (5 lecture hours)

HEALTH SCIENCES 1120

Introduction to Clinical Lab Science

3 credit hours

An introduction to the profession of clinical laboratory science and to the clinical laboratory scientist's role in the delivery of health care. An exploration of all clinical areas of the laboratory and the major work components performed in each area. (2 lecture hours, 2 lab hours)

HEALTH SCIENCES 1122

Basic Phlebotomy Techniques

4 credit hours

An overview of venipuncture and capillary puncture techniques for obtaining blood specimens for laboratory analysis. Prerequisite: Health Sciences 1110 or concurrent enrollment in Health Sciences 1110, or consent of instructor (3 lecture hours, 2 lab hours)

HEALTH SCIENCES 1123

Phlebotomy for Nursing

2 credit hours

An overview of the phlebotomy procedure designed for the practicing nurse to refine phlebotomy skills and/or the nursing student who desires to learn phlebotomy techniques. Basic information about phlebotomy as well as hands-on practice are included. (1 lecture hour, 2 lab hours)

HEALTH SCIENCES 1124

Phlebotomy Clinical

2 credit hours

Integrated clinical practice in the area of venipuncture and capillary puncture for the collection of blood specimens for diagnostic analysis. Prerequisites: Health Sciences 1122 and CPR for Healthcare Providers, and consent of instructor

HEALTH SCIENCES 1125

Phlebotomy Exam Review

1 credit hour

Comprehensive review and update of phlebotomy practice, to include theory and procedures, as well as

preparation for the certifying exam. Prerequisites: Health Sciences 1124 with a grade of "C" or better or concurrent enrollment in Health Sciences 1124, or consent of instructor (1 lecture hour)

HEALTH SCIENCES 1126

Basic Non-Invasive Electrocardiography (EKG)

2 credit hours

An overview of non-invasive electrocardiographic procedures, including electrocardiogram (EKG), Holter monitor and Treadmill Stress Test (TMST). Exploration of anatomy, physiology and electrical activity of the heart. Prerequisite: Health Sciences 1110 or concurrent enrollment in Health Sciences 1110, or consent of instructor (1 lecture hour, 2 lab hours)

HEALTH SCIENCES 1128

Advanced Non-Invasive Electrocardiography (EKG)

3 credit hours

Advanced electrocardiography (EKG) includes electrophysiology of the heart and identification of waveforms. Cardiac arrhythmias, cardiac disease states and cardiac medications included. Non-invasive cardiography testing to include Holter monitor and Treadmill Stress Testing (TMST). Prerequisites: Health Sciences 1126 or consent of instructor (2 lecture hours, 2 lab hours)

HEALTH SCIENCES 1129

Non-Invasive Electrocardiography Clinical

1 credit hour

Integrated clinical practice in the area of electrocardiography to include electrocardiograms (EKG), Holtor monitor testing, and the Treadmill Stress Test (TMST) via non-invasive electrocardiographic procedures. Prerequisites: CPR for Health Care Providers and Health Sciences 1128, or consent of instructor (4 lab hours)

HEALTH SCIENCES 1130

Medical Assistant Administrative Procedures

3 credit hours

Introduction to the profession and responsibilities of a certified medical assistant with an emphasis on administrative procedures. Prerequisites: Admission to the Medical Assistant Program and Computer Information Systems 1150 or Office Technology Information 1200 with a grade of "C" or better, or consent of instructor (2 lecture hour, 2 lab hours)

HEALTH SCIENCES 1145

Health Care Collaboration

2 credit hours

Examines the role of the interdisciplinary health care team as it impacts patient outcomes. Prepares students to participate in case studies and other methods of collaboration within a multidisciplinary team. Develops collaboration and communication skills. Explores support and referral networks. (2 lecture hours)

HEALTH SCIENCES 1150

CPR – Basic Life Support for Health Care Providers

1 credit hour

Cardiopulmonary resuscitation (CPR) for victims of all ages intended for participants who provide health care to patients in a wide variety of settings, including in-hospital and out-of-hospital settings. (2 lab hours)

HEALTH SCIENCES 1160

CPR-Basic Life Support Instructor

1 credit hour

Prepares American Heart Association (AHA) instructors to disseminate the science, skills and philosophy of Cardiopulmonary Resuscitation (CPR) programs to participants enrolled in AHA courses. Purpose of the course is to provide instructor candidates with the knowledge and skills necessary to reach and teach potential Basic Life Support providers (BLS). Prerequisite: Health Sciences 1150 or equivalent (may be an M.D., R.N., paramedic, EMT-B, respiratory therapist or other as described by AHA-CPR recognition) (2 lab hours)

HEALTH SCIENCES 1820

Selected Topics I

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (3 lecture hours)

HEALTH SCIENCES 1821

Selected Topics II

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (2 lecture hours, 2 lab hours)

HEALTH SCIENCES 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

HEALTH SCIENCES 2211

Legal and Ethical Aspects of Health Care

3 credit hours

Legal aspects of health care with an emphasis on privacy standards, patient's rights, confidentiality, case law, codes of ethics, documentation, reporting requirements, release of information and accreditation standards. Prerequisite: Health Sciences 1110 with a grade of "C" or better, or equivalent, or concurrent enrollment, or consent of instructor (3 lecture hours)

HEALTH SCIENCES 2233

Pathophysiology for Medical Assisting

3 credit hours

Study of functional changes that accompany injuries, disorders and disease states as they relate to medical assisting. Prerequisite: Admission to the Medical Assistant Program and Anatomy and Physiology 1500 or higher with a grade of "C" or better (3 lecture hours)

HEALTH SCIENCES 2235

Pharmacology for Medical Assisting

3 credit hours

Study of prescribed drugs as they relate to medical assisting. Emphasis on legislation, common medications prescribed, dosage calculation, preparation, administration and adverse reactions. Prerequisite: Health Sciences 2233 with a grade of "C" or better, or concurrent enrollment, or consent of instructor (3 lecture hours)

HEALTH SCIENCES 2239

Medical Assistant Clinical Procedures

3 credit hours

Study of clinical procedures performed by a medical assistant with an emphasis on medical assessis, infection control, safety and basic clinical assessment. Prerequisite: Health Sciences 2235 with a grade of "C" or better, or consent of instructor (2 lecture hours, 3 lab hours)

HEALTH SCIENCES 2250

Medical Assistant Clinical Externship

3 credit hours

Integrated clinical practice in medical assisting with a minimum of 160 clinical contact hours in a qualified medical office. Prerequisite: Consent of instructor

HISTORY

Also see Chinese 1100, French 1100, German 1100, Italian 1100, Japanese 1100, Korean 1100 and Spanish 1100.

HISTORY 1110 (IAI H2 901)

Western Civilization Until 1600

3 credit hours

An examination of the development of Western Civilization until 1600. Themes such as the development of governments, religions, philosophy, the arts, and social and economic relationships will be analyzed. (3 lecture hours)

HISTORY 1120 (IAI H2 902)

Western Civilization Since 1600

3 credit hours

An examination of the development of intellectual, social, economic and political characteristics of modern Western Civilization. Themes such as the Scientific Revolution and the Enlightenment, political revolutions, the rise of industry, the world wars and the Cold War will be analyzed. (3 lecture hours)

HISTORY 1130 (IAI S2 900)

History of the United States to 1865

3 credit hours

Survey of American history from the Pre-Columbian era through the U.S. Civil War: peoples and origins, colonial development, revolution, establishment of the U.S. Constitution, Early Republic, Age of Reform and Civil War. (3 lecture hours)

HISTORY 1140 (IAI S2 901)

History of the United States since 1865

3 credit hours

Survey of U.S. history from Reconstruction to the present: Reconstruction, Industrial Revolution, Progressive Era Politics, problems of 20th century include economic, political, cultural, international and social changes in the modern United States, including 20th century major wars, Depression era and the Cold War era. (3 lecture hours)

HISTORY 1160 (IAI H2 907)

World Civilization since 1300

3 credit hours

The history of the intellectual, political, social, economic and cultural development of world societies from the fourteenth century to the present. Examines landmark documents and artifacts that reflect world cultures. (3 lecture hours)

HISTORY 1800

Experiential Special Topics

1 to 3 credit hours

Experiential courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent (to be determined by the disciplines). This experiential component may include field studies, interdisciplinary learning, and/or the practical application of discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.) (1 to 3 lecture hours, 1 to 3 lab hours)

HISTORY 1820

Selected Topics I

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (3 lecture hours)

HISTORY 1824

Selected Topics in History

2 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (2 lecture hours)

HISTORY 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

HISTORY 2205 (IAI H2 903N)

East Asian Civilization

3 credit hours

A survey of the political, social, economic and cultural changes in East Asia over the past 2,000 years, with a focus on the last 400 years. (3 lecture hours)

HISTORY 2210 (IAI S2 907N)

History and Culture of Africa

3 credit hours

An examination of the history and cultures of Africa. Themes such as the influence of geography, ethnic and cultural diversity, European domination, independence movements, and contemporary economic and political issued are analyzed. (3 lecture hours)

HISTORY 2215 (IAI S2 916N)

History and Culture of India

3 credit hours

A survey of the history and culture of India from the Indus Valley civilization to the present. (3 lecture hours)

HISTORY 2220 (IAI H2 903N)

History and Culture of China

3 credit hours

A survey of the history of China from the Hsia dynasty to the present, with emphasis on the cultural, political, social and religious aspects of Chinese society. (3 lecture hours)

HISTORY 2225 (IAI H2 908)

History and Culture of Russia

3 credit hours

A survey of the history and culture of Russia from earliest times to the present, including the adoption of Orthodoxy, the Mongol invasions, the development of a strong monarchy, Westernization, the Revolutions, and the Soviet State and its collapse. The course includes the development of Russian cultural, political and social institutions, as well as a discussion of the formation of its multi-ethnic and multi-cultural empire. (3 lecture hours)

HISTORY 2230 (IAI H2 908)

History and Culture of Japan

3 credit hours

A survey of the history and culture of Japan from the Neolithic Era to the present. Emphasis is placed on the political, social, economic, intellectual, religious and artistic aspects of Japanese culture. (3 lecture hours)

HISTORY 2235 (IAI H2 903N)

20th Century World History

3 credit hours

An examination of the world in the 20th century. Themes such as imperialism, colonialism, war, revolution, totalitarianism and globalization are analyzed. (3 lecture hours)

HISTORY 2240

History and Culture of Latin America

3 credit hours

Description and analysis of factors shaping the development of Latin American civilization, including pre-Columbian and European roots, colonial structure, independence movements, creation of modern states and relations with the United States. (3 lecture hours)

HISTORY 2245

History and Culture of England

3 credit hours

An overview of the major political, social, economic, intellectual and cultural developments in the history of England from the Neolithic Age to the present. (3 lecture hours)

HISTORY 2260 (IAI S2 901)

United States Since 1945

3 credit hours

An in-depth examination of the United States since 1945. Themes such as the growth of the presidency, economic and social developments, and the United States in the world arena are analyzed. (3 lecture hours)

HISTORY 2265

History of Illinois

3 credit hours

This course surveys Illinois history from the arrival of the first humans during the Paleolithic Era to the present. It also examines the interaction of ecological, social, cultural, economic and political factors in their impact on Illinois' historical evolution. (3 lecture hours)

HISTORY 2270

History of Chicago

3 credit hours

An examination of the development of the urban, political, cultural, social and economic history of Chicago. Themes such as industrialization, immigration, the rise of labor and the impact of national politics are analyzed. (3 lecture hours)

HISTORY 2800

Advanced Experiential Topics

1 to 3 credit hours

Advanced experiential courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent (to be determined by the disciplines). This experiential component may include field studies, interdisciplinary learning, and/or the practical application of disciplinerelated concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.) Prerequisite: At least one course in the discipline or consent of instructor (1 to 3 lecture hours, 1 to 3 lab hours)

HISTORY 2820

Advanced Selected Topics I

3 credit hours

Advanced exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. Prerequisite: At least one course in the discipline or consent of instructor (3 lecture hours)

HORTICULTURE

HORTICULTURE 1100

Introduction to Horticulture

3 credit hours

Principles and practices in the development, production and use of horticultural crops. Includes classification, structure, growth and development, environmental influences on horticultural plants, and vocational opportunities in the horticultural industries. (2 lecture hours, 2 lab hours)

HORTICULTURE 1101

Soils and Fertilizers

3 credit hours

Nature and characteristics of soils, including physical, chemical and biological properties, soil origins, classification, soilless media and proper soil management. Examines the interrelationship between soils and fertilizers and the selection and use of fertilizers to meet plant nutritional needs. (2 lecture hours, 2 lab hours)

HORTICULTURE 1105

Floral Design I

3 credit hours

Principles and elements of floral design, with practice in creating basic floral designs and using proper techniques. Includes identification, care and handling of flowers. (2 lecture hours, 2 lab hours)

HORTICULTURE 1110

Applied Plant Taxonomy

3 credit hours

Classification of plant families with an emphasis on plant material used in the horticulture industry. Prerequisite: Horticulture 1100 or consent of instructor (2 lecture hours, 2 lab hours)

HORTICULTURE 1111

Landscape Design I

3 credit hours

The process of residential landscape design, site analysis and practical solutions of typical landscape problems. Includes plant selection, graphic presentation and correct placement of materials in the residential landscape. (2 lecture hours, 2 lab hours)

HORTICULTURE 1112

Landscape Maintenance and Construction

3 credit hours

Landscape installation, maintenance and construction for residential, recreational and public grounds. (2 lecture hours, 2 lab hours)

HORTICULTURE 1115

Floral Design II

3 credit hours

Continuation of the principles covered in Floral Design I. Introduces new styles and techniques and includes flower shop management. Prerequisite: Horticulture 1105 or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

HORTICULTURE 1130

Horticulture Business

3 credit hours

Principles and practices of operating a horticultural business and operational procedures for dealing with the perishable and seasonal nature of horticulture. Includes trends, skills and career opportunities in the various disciplines within horticulture. (3 lecture hours)

HORTICULTURE 1140

Landscape Graphics

2 credit hours

Drawing plans, section-elevations and perspectives for landscape design. Includes the use of pencils and markers for lettering, drafting and color renderings (2 lecture hours)

HORTICULTURE 1185

Arboriculture

3 credit hours

Care and maintenance of trees and shrubs in the urban landscape. Includes Plant Health Care (PHC), environmental factors affecting plants, and proper and safe use of tools. (2 lecture hours, 2 lab hours)

HORTICULTURE 1800

Experiential Special Topics

1 to 3 credit hours

Experiential courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent. This experiential component may include field studies, interdisciplinary learning, and/or the practical application of discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.) (1 to 3 lecture hours)

HORTICULTURE 1820

Selected Topics in Horticulture

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (3 lecture hours)

HORTICULTURE 1821

Selected Topics in Horticulture

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (2 lecture hours, 2 lab hours)

HORTICULTURE 1824

Selected Topics in Horticulture

2 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college

Class Schedule. May be taken three times for credit as long as different topics are selected. (2 lecture hours)

HORTICULTURE 1826

Selected Topics in Horticulture

1 credit hour

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (2 lab hours)

HORTICULTURE 1827

Selected Topics in Horticulture

1 credit hour

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (1 lecture hour)

HORTICULTURE 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

HORTICULTURE 2221

Plant Propagation

3 credit hours

Principles and practices of sexual and asexual propagation of plants used in the horticulture industry. Includes work with seeds, cuttings, grafting, micropropagation, special structures and layering. (2 lecture hours, 2 lab hours)

HORTICULTURE 2225

Specialty Floral Design

3 credit hours

Advanced floral design skills using principles, elements and techniques to create party, wedding and sympathy presentations. Prerequisite: Horticulture 1115 or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

HORTICULTURE 2231

Turf Science and Management

3 credit hours

Principles and methods of selecting, establishing and maintaining turf for residential lawns, parks, sports fields and golf courses. Includes cultural practices such as fertilization, irrigation and cultivation, as well as construction and renovation techniques. Also covers weed, insect and disease identification and control. (2 lecture hours, 2 lab hours)

HORTICULTURE 2241

Landscape Plants I

3 credit hours

Identification of woody ornamental trees, shrubs, vines and groundcovers common to northern Illinois, with an emphasis on deciduous plants. Includes adaptability, cultural requirements and placement in the landscape. Prerequisite: Horticulture 1100 or consent of instructor (2 lecture hours, 2 lab hours)

HORTICULTURE 2242

Landscape Plants II

3 credit hours

Identification of woody ornamental trees, shrubs, vines and groundcovers common to northern Illinois, with an emphasis on narrow and broad-leaved evergreens. Includes adaptability, cultural requirements and placement in the landscape. Prerequisite: Horticulture 1100 or consent of instructor (2 lecture hours, 2 lab hours)

HORTICULTURE 2243

Ornamental Grasses

2 credit hours

Identification and use of ornamental grasses in the landscape. Includes propagation, production and designing with native and non-native grasses. (2 lecture hours)

HORTICULTURE 2244

Herbaceous Perennials

3 credit hours

Identification, selection, design and maintenance of herbaceous perennials in the landscape. Prerequisite: Horticulture 1100 or consent of instructor (2 lecture hours, 2 lab hours)

HORTICULTURE 2251

Diseases of Ornamental Plants

3 credit hours

Detection, identification and treatment of common plant diseases. Includes analysis of symptoms, selection of chemicals, preventive measures and selection of disease resistant ornamental plants. (2 lecture hours, 2 lab hours)

HORTICULTURE 2253

Greenhouse Operations and Procedures

3 credit hours

Principles and practices of operating a commercial greenhouse. Includes types of greenhouse structures, greenhouse components, plant nutrition, greenhouse pests, crop scheduling and business management principles for the greenhouse industry. Prerequisite: High school algebra, or Mathematics 0460 or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

HORTICULTURE 2255

Greenhouse Crop Production

3 credit hours

Principles and practices utilized in growing and maintaining greenhouse crops such as bench and pot mums, poinsettias, lilies, bulbs, azaleas, hydrangeas, foliage and miscellaneous pot crops. Includes hands-on experience with these crops. (2 lecture hours, 2 lab hours)

HORTICULTURE 2257

Bedding Plant Production

3 credit hours

Principles and practices of bedding plant and plug production. Includes culture and identification of annual plant material such as petunias, marigolds, impatiens, begonias, geraniums and miscellaneous bedding plant varieties. Hands-on experience with these crops is provided. (2 lecture hours, 2 lab hours)

HORTICULTURE 2261

Insects of Ornamental Plants

3 credit hours

Detection, identification and eradication of local species of insects that damage ornamental plants. Includes selection and use of pesticides for insect control. (2 lecture hours, 2 lab hours)

HORTICULTURE 2271

Landscape Design II

3 credit hours

The design process with emphasis on problem solving and hardscape materials. Includes graphics, estimating, sales, and construction processes as they relate to design, installation and costs. Prerequisites: Horticulture 1111 and 2241 (2 lecture hours, 2 lab hours)

HORTICULTURE 2800

Advanced Experiential Special Topics

1 to 3 credit hours

Advanced experiential courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent. This experiential component may include field studies, interdisciplinary learning, and/or the practical application of discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.) Prerequisite: At least one course in the discipline or consent of instructor (1 to 3 lecture hours)

For additional information, call Judy Burgholzer, program coordinator, at (630) 942-3095, Julia Fitzpatrick-Cooper at (630) 942-2526, or call the Business and Technology division at (630) 942-2592.

HOTEL AND LODGING MANAGEMENT

HOTEL AND LODGING MANAGEMENT 1100 Introduction to the Hospitality Industry

3 credit hours

Orientation to the hospitality industry, its history and magnitude, organization, challenges and opportunities. Highlights interdependent nature of the public hospitality industry. (3 lecture hours)

HOTEL AND LODGING MANAGEMENT 1130 Hospitality Industry Accounting

3 credit hours

Application of basic accounting principles to hospitality industry establishments. System of daily reporting as well as the preparation of periodic accounting statement. Accounting 1110 or Accounting 1140 strongly recommended (3 lecture hours)

HOTEL AND LODGING MANAGEMENT 1840 Independent Study – Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

HOTEL AND LODGING MANAGEMENT 2202 Hotel Marketing Management

3 credit hours

Successful marketing principles employed in the hospitality industry. Demand variables and marketing strategies to capture market share. Marketing basics, distribution channels, communications, promotions, research, packaging, collateral materials, pricing strategies, the marketing plan, and enhancing internal sales may be covered. Prerequisite: Hotel and Lodging Management 1100 or equivalent, or consent of instructor (3 lecture hours)

HOTEL AND LODGING MANAGEMENT 2211 Rooms Division Operations

3 credit hours

Supervisory management roles in the front office of a hotel or resort. Includes desk operations, reservations, sales, information management and uniformed services. Use of simulations, computers, role playing and hotel job shadowing. (2 lecture hours, 2 lab hours)

HOTEL AND LODGING MANAGEMENT 2212 Hotel Facilities Operations Management

3 credit hours

Introduction to the environments and functions in the housekeeping, maintenance and engineering departments of today's hotels. Role of managers of the operations physical plant and the interrelationships to other departments. Includes the organization of the facilities, budgeting, selection and purchase of equipment and supplies, standards, safety and security, maintenance (exterior and interior), energy conservation, Heating, Ventilation, Air Conditioning (HVAC) systems, overview of the electrical and mechanical systems, and principles that affect the hotel operations and profits. (3 lecture hours)

HOTEL AND LODGING MANAGEMENT 2230 Law for the Hospitality Industry

2 credit hours

Introduction to the principles of the laws that affect the hospitality industry, intended to analyze legal consequences from a managerial standpoint. (2 lecture hours)

HOTEL AND LODGING MANAGEMENT 2240 Quality Management of Service in the Hospitality Industry

3 credit hours

Applies the services concept to a total management improvement system in the hospitality industry. Analysis includes ethics, practices and case studies of leading, toprated hotel companies. Prerequisite: Hotel and Lodging Management 1100 or equivalent (3 lecture hours)

HOTEL AND LODGING MANAGEMENT 2251 **Techniques of Supervision**

2 credit hours

Principles of effective human relations required by hospitality industry supervisory personnel. Practical skills for effective supervision, including decision making, leadership roles, motivating personnel, recruiting and training employees, conflict resolution, delegation and effective communications. (1 lecture hour, 2 lab hours)

HOTEL AND LODGING MANAGEMENT 2253 **Professional Meeting and Event Management**

3 credit hours

Meeting and special event planning, including exhibits, trade shows and conventions. Emphasis upon techniques of conference service, related food and beverage services, and sales management, including audiovisuals, convention services and theme management. (2 lecture hours, 2 lab hours)

HOTEL AND LODGING MANAGEMENT 2285 Advanced Hospitality Operations

3 credit hours

Integrates the many concepts found in hotel industry departments such as hotel operations, marketing and associated activities, technology, human resource management and processes, accounting and cost analysis, purchasing and contemporary issues.

Prerequisite: Hotel and Lodging Management 2240 or equivalent; Corequisite: Hotel and Lodging Management 2240 (3 lecture hours)

For additional information, call Chris Thielman, program coordinator, at (630) 942-2720, or call the Business and Technology division at (630) 942-2592.

HUMAN SERVICES

HUMAN SERVICES 1100

Introduction to Human Services

4 credit hours

Introduction to Human Services systems through tours of facilities, discussions with professionals in the field, and examination of related films, articles and books pertinent to the field of Human Services. Students are familiarized with the roles and functions of Human Services workers through examination of the skills, knowledge, traits and attitudes necessary to enter the Human Services field. The ethical principles that guide the Human Services professional are explored in depth. (3 lecture hours, 2 lab hours)

HUMAN SERVICES 1105

Esteem Building

2 credit hours

An overview of cognitive behavioral interventions that increase self esteem. The construct of self esteem is explored through research and assessment tests. Specific interventions and appropriate utilization of these interventions for various age groups are discussed. (2 lecture hours)

HUMAN SERVICES 1113

Interpersonal Dynamics

4 credit hours

Overview of interpersonal skills that enhance therapeutic communication. Skills of empathy, respect, concreteness, genuineness, appropriate self-disclosure and confrontation are addressed. Assessment, interviewing and de-escalation techniques are introduced. (3 lecture hours, 2 lab hours)

HUMAN SERVICES 1114

Contemporary Treatment Approaches

3 credit hours

An introduction to current treatment approaches. Each approach is viewed in its historical, cultural and philosophical perspectives. Students demonstrate each theoretical model and assess its potential for incorporation into their developing counseling style. (2 lecture hours, 2 lab hours)

HUMAN SERVICES 1115

Behavior Modification

4 credit hours

This course provides an exploration of the practical applications of behavior modification to childrearing, education, maladaptive behavior, interpersonal relationship and self-control. Class discussions, skills practice and a behavior-change project emphasizing the relationship of material learned to the real-life situations of students are included. (2 lecture hours, 4 lab hours)

HUMAN SERVICES 1121

Cross-Cultural Communications

3 credit hours

Introductory course exploring a variety of issues related to cultural competency in Human Services practice. The concepts of race, ethnicity, culture, class religion, gender, sexual orientation, ethnocentrism, oppression and power are explored. Practical application of acquired awareness, knowledge and skills is stressed. (2 lecture hours, 2 lab hours)

HUMAN SERVICES 1125

Introduction to Addictions

4 credit hours

An overview of historical, cultural and current attitudes toward alcohol use; the model of alcoholism and other addictions; systems applications of the addictions model; the interaction of physical, psychological, social and spiritual aspects of addiction; the clinical manifestations, methods and models of treatment; and various concepts of early intervention and prevention. (4 lecture hours)

HUMAN SERVICES 1126

Psychopharmacology for Addictions Counselors 3 credit hours

An introduction to the pharmacology, physiology and biochemical principles necessary to understand the effects of the nature, action, effects and use of psychoactive drugs. Utilization of psychoactive drugs in psychiatry as it applies to dual diagnosis substance abuse counseling is explored. (3 lecture hours)

HUMAN SERVICES 1141

Psychiatric Rehabilitation

4 credit hours

Rehabilitative approach to treating individuals with severe mental illness. Emphasis is placed on collaborating treatment methods with the clients. Students are introduced to the mental health team, understanding legal and ethical issues surrounding treatment, psychiatric symptoms and disability. Psychiatric rehabilitation is introduced through vocational skills training, interview techniques and assessment methods. (3 lecture hours, 2 lab hours)

HUMAN SERVICES 1142

Psychiatric Rehabilitation Skills

4 credit hours

Continuation of Psychiatric Rehabilitation Certificate training. Course focuses on interviewing and listening skills, skills training, preventing and mangling behaviors, assessment skills, treatment planning and crises intervention. (3 lecture hours, 2 lab hours)

HUMAN SERVICES 1143

Health Skills for Psychiatric Rehabilitation

4 credit hours

Continuation of Psychiatric Rehabilitation Certificate training program. Course examines three dimensions of wellness: physical, emotional and environmental. Psychoeducational training sessions are introduced, as well as medication management skill training. (3 lecture hours, 2 lab hours)

HUMAN SERVICES 1144

Vocational and Community Living Skills

4 credit hours

Examines fundamentals of vocational rehabilitation. Job coaching, job analysis, medication management, negotiation skills and networking skills are practiced. Policy standards, both state and federal, are discussed and integrated into coursework. (3 lecture hours, 2 lab hours)

HUMAN SERVICES 1150

Introduction to Nutrition, Health and Behavior

2 credit hours

Exploration of how foods and nutrition are related to physical and mental health. Specific problem areas as stress, allergies, cardiovascular disease, arthritis, weight control, emotional stability and learning disabilities are explored. Current research in the field is explored in order to maintain optimal health through the manipulation of diet and lifestyle (2 lecture hours)

HUMAN SERVICES 1160

Residential Child Care

2 credit hours

Introductory course in residential child care. Provides an overview of the settings and clinical skills needed to assist children with emotional problems. Students are introduced to the models of care utilized in outpatient and inpatient settings. (1 lecture hour, 2 lab hours)

HUMAN SERVICES 1165

Dynamics of Child Abuse

3 credit hours

An in-depth look at child neglect, and child sexual, physical and emotional abuse. Students investigate

treatment issues surrounding each area. Victim and perpetrator treatment issues, prevention of abuse, and the long-term impact on the individual are discussed. Clinical issues that arise in children, adolescents and adults as a result of child abuse are covered. (3 lecture hours)

HUMAN SERVICES 1170

Role of Advocacy in Human Services

2 credit hours

Introduction to advocacy skills in relation to counseling in Human Services. Overview of political and public advocacy issues. Essential skills and knowledge of legal processes for effective solutions are introduced. (1 lecture hour, 2 lab hours)

HUMAN SERVICES 1175

Crisis Intervention

2 credit hours

Introduction to clinical interventions utilized in crisis intervention. This course covers crises throughout the life cycle and situations such as medical and psychological traumas, post traumatic stress disorder and professional burnout. (1 lecture hour, 2 lab hours)

HUMAN SERVICES 1180

Domestic/Family Violence

4 credit hours

Comprehensive exploration of domestic/family violence. The history, nature, extent, causes and consequences of family/domestic violence are examined. Skill building in direct service is stressed. This course meets the requirement for the State of Illinois 40-hour domestic violence training. (3 lecture hours, 2 lab hours)

HUMAN SERVICES 1190

Introduction to Developmental Disabilities

5 credit hours

Course covers treatment history and present methods. Behavioral management programs, record maintenance, and facility and/or home maintenance techniques are explored. Students are introduced to working with an interdisciplinary team to provide care to a varied population. (4 lecture hours, 2 lab hours)

HUMAN SERVICES 1800

Experiential Special Topics

1 to 3 credit hours

Experiential course covers topics not otherwise covered by general education courses and other course in the *Catalog* for the discipline. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to excess 70 percent (to be determined by the disciplines). This experiential component may include field studies, interdisciplinary learning, and/or the practical application of discipline-related concepts, theories, participles and methods with a specific focus. (1 to 3 lecture hours, 1 to 3 lab hours)

HUMAN SERVICES 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. (1 to 4 lecture hours)

HUMAN SERVICES 2200

Introduction to the Juvenile Justice System

4 credit hours

Introduction to the structure and function of the juvenile justice system. Students explore the legal issues pertinent to juvenile offenders with an emphasis on conduct disorder legal infractions, chemical dependency issues and parental abuse. The functions of rehabilitation settings and clinical interventions provided in these settings are examined. (3 lecture hours, 2 lab hours)

HUMAN SERVICES 2212

Group Dynamics

5 credit hours

Introduction to leadership functions that affect collective behavior. Exploration of the dynamics of change as it applies to group functions. Analysis of group stages and differing theoretical models to conduct the group process are addressed. Ethical guidelines that govern the establishment and maintenance of groups are explored. (3 lecture hours, 4 lab hours)

HUMAN SERVICES 2213

Grief Counseling

3 credit hours

An overview of grief counseling, including history and research, normal and abnormal grief responses, and physiological and psychological implications of grief. Lab emphasizes acquiring skills in assisting others to successfully resolve grief issues. (2 lecture hours, 2 lab hours)

HUMAN SERVICES 2214

Older Adult Care Management

4 credit hours

Introduction to the basic components of older adult care management. Content covers the physical, emotional, social, psychological and cognitive aspects of aging. Course covers practical applications of interviewing and counseling families, managing client behavior, and assessing individual needs for appropriate treatment. (3 lecture hours, 2 lab hours)

HUMAN SERVICES 2223

Generalist Practice I

2 credit hours

Interviewing skills, psychological assessment techniques, individual and group counseling skills, development of treatment plans, discharge planning and documentation skills are addressed. Ethical guidelines governing practice are reinforced throughout each skill practiced. Students are prepared for the fieldwork experience. (1 lecture hour, 2 lab hours)

HUMAN SERVICES 2225

Addictions Counseling I

4 credit hours

Focuses on the methods and skills utilized in treating the chemically dependent individual and his/her family. Skill development is accomplished through role-play, video and audio tape review. Topics covered include, but are not limited to, assessment, diagnosis, treatment planning, relapse prevention, ASAM criteria levels of care, motivational interviewing, legal and ethical issues, and documentation skills. (2 lecture hours, 4 lab hours)

HUMAN SERVICES 2226

Addictions Counseling II

3 credit hours

Expands on issues related to addiction. Topics include advanced issues in psychopharmacology, addictions and sexuality, interventions, treatment applications consistent with the needs of special population, employee assistance programs, motivational skills in the treatment of change, counselor self-care, advanced group skills, and effective didactic presentations to client populations. (2 lecture hours, 2 lab hours)

HUMAN SERVICES 2240

Family Education and Treatment Models

3 credit hours

Overview of the effects of family interaction on individual growth and change. The impact of crises such as divorce, addictions, death, troubled children, and/or aging parents on the family system is explored. Diverse family systems are also introduced. Clinical approaches as well as preventive interventions with families are explained. (3 lecture hours)

HUMAN SERVICES 2245

Introduction to Eating Disorders

3 credit hours

An overview of the historical, cultural, biological, social and psychological factors related to eating disorders. This course addresses assessment and methods of treatment, including individual treatment, group treatment, family treatment and self-help groups. (3 lecture hours)

HUMAN SERVICES 2251

Fieldwork I

4 credit hours

Practicum experience in the field of Human Services. Students from all certificate/degree options in Human Services are required to fulfill 300 clinical hours in the field. One hour of class lecture time per week is required with this course. Supervision of skill development and an introduction to the network of community services are introduced. (2 lecture hours, 4 lab hours)

HUMAN SERVICES 2252

Fieldwork II

4 credit hours

Continuation of Human Services 2251. This course provides an additional 300 hours of clinical internship along with weekly one-hour clinical supervision classroom consultation time. Students are provided with advanced training to improve their skills. (2 lecture hours, 2 lab hours)

HUMAN SERVICES 2274

Legal Issues in Counseling

1 credit hour

Overview of basic legal concepts as they relate to counseling. Course presents relevant case law and provides a framework for clinical practice. (1 lecture hour)

HUMAN SERVICES 2279

Ethics in Counseling

2 credit hours

Presents the codes of ethics from several Human Services disciplines. Utilizes a variety of realistic clinical situations to illustrate potential ethical dilemmas and the principles quiding the student's response. (2 lecture hours)

HUMAN SERVICES 2280

Addictions Counseling III

3 credit hours

Course explores the most current information in addictions treatment and prevention. In addition, students are introduced to primary prevention strategies, the clinical needs of special populations, addictions treatment planning according to best practices guidelines, holistic approaches to addictions treatment, psycho-educational principles in treatment and prevention, effective clinical supervision and administrative practices. (2 lecture hours, 2 lab hours)

HUMAN SERVICES 2284

CADC Exam Preparation

1 credit hour

A review of basic concepts and information presented in the Addictions Counselor Training Program that will guide the individual preparation for the IODAPCA certification exam. Test-taking strategies will be reviewed. (1 lecture hour)

HUMAN SERVICES 2285

Divorce and Family Mediation

4 credit hours

A conflict resolution framework is presented for use in divorce and family mediation. Students learn to work effectively with families experiencing divorce through lecture, discussion and experiential learning. (4 lecture hours)

For additional information regarding Human Services, call Rita Bobrowski at (630) 942-2024, Frank Salvatini at (630) 942-2043, or Mary Ann Krieglstein at (630) 942-2103.

HUMANITIES

HUMANITIES 1101 (IAI F9 900)

Introduction to Humanities: The Arts

3 credit hours

An exploration of creativity as expressed in music, literature and/or the visual and performing arts of the Western tradition. Emphasis is on students' consideration and development of their own personal aesthetic values within a historical framework. Attendance at cultural events and an individual project may be required. (3 lecture hours)

HUMANITIES 1102 (IAI H9 900)

Introduction to Humanities: Ideas and Values

3 credit hours

An exploration of the nature of mankind, primarily as reflected in the disciplines of philosophy, history, literature and religious studies. Particular attention is paid to individual and communal identities, to questions of values, and to the struggle for personal fulfillment. Emphasis on students' consideration and development of their own personal, moral and ethical values. Attendance at outside events may be required. (3 lecture hours)

HUMANITIES 1105 (IAI HF 904N)

Non-Western Humanities

3 credit hours

Interdisciplinary survey of the significant intellectual and artistic achievements of several non-Western cultures, such as Asian, African, South American, Native American and Islamic. The course surveys selected works of literature, philosophy, visual art, music and other performing arts from each culture, as well as offers a comparative examination of their values, motifs and aesthetics with those of Western cultural expression. (3 lecture hours)

HUMANITIES 1110 (IAI HF 906D)

The Arts and Cultural Diversity

3 credit hours

An exploration of human relations and cultural diversity in the contemporary United States and their roots in African, Native American, Asian and Latin American civilizations. Creative artworks in the humanities, such as literature, film, art, music, photography, dance and drama, serve as catalysts to look in-depth at the topics of race, ethnicity, gender and other issues related to improving human relations. (3 lecture hours)

HUMANITIES 1800

Experiential Special Topics

1 to 3 credit hours

Experiential courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent (to be determined by the disciplines). This experiential component may include field studies, interdisciplinary learning, and/or the practical application of discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.)

HUMANITIES 1820

Selected Topics I

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (3 lecture hours)

HUMANITIES 1824

Selected Topics in Humanities

2 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (2 lecture hours)

HUMANITIES 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

HUMANITIES 2019

Women in the Arts

3 credit hours

An interdisciplinary study of the contribution of women to the arts and humanities, exploring the role of gender in the creation of the arts. With analyses informed by contemporary feminist and gender theories, artworks from the visual and performing arts, music and literature will be studied in their artistic, historical and cultural contexts. Both Western and non-Western modes of artistic expression may be examined. Attendance at outside events may be required. (3 lecture hours)

HUMANITIES 2210

Leadership Development

3 credit hours

Development of leadership ability through an investigation of leadership styles, group dynamics theory and experiential exercises. Students also develop a personal philosophy of leadership, and demonstrate an awareness of the moral and ethical responsibilities of leadership. The opportunity to develop essential leadership skills through classic case studies, the Great Books and other classical and contemporary literature and film. There is a service-learning component to this course. (3 lecture hours)

HUMANITIES 2800

Advanced Experiential Special Topics

1 to 3 credit hours

Advanced experiential courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline, while building on academic knowledge and skills acquired in introductorylevel classes. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent (to be determined by the disciplines). This experiential component may include field studies, interdisciplinary learning, and/or the practical application of more complex discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and

experiential information (syllabus, academic requirements, field preparation, logistics, etc.) Prerequisite: At least one course in the discipline or consent of instructor

HUMANITIES 2820

Advanced Selected Topics I

3 credit hours

Advanced exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. Prerequisite: At least one course in the discipline or consent of instructor (3 lecture hours)

INTERIOR DESIGN

INTERIOR DESIGN 1110

Drafting Interiors

3 credit hours

Introductory drafting course for interior design applications. (2 lecture hours, 2 lab hours)

INTERIOR DESIGN 1120

Interior Systems

2 credit hours

Building systems as applied to interior design projects with emphasis on National Kitchen and Bath Association (NKBA) standards. (1 lecture hour, 2 lab hours)

INTERIOR DESIGN 1130

Perspective Techniques

2 credit hours

Graphic communication skills, including one-point, two-point and bird's-eye-view perspective, plus other selected paraline methods of axonometric drawing related to interior design and furniture illustrations. (1 lecture hour, 2 lab hours)

INTERIOR DESIGN 1140

Color Rendering

2 credit hours

Marker and pencil color rendering techniques, including texture and shadow applications. Prerequisite: Interior Design 1130 or equivalent, or consent of instructor (1 lecture hour, 2 lab hours)

INTERIOR DESIGN 1151

Architecture and Design History I

3 credit hours

Historical review of architecture and decorative arts from ancient cultures through the Hispanic Renaissance. Includes selected vocabulary, classical forms, use of ornament, colors, motifs and furniture styles. (3 lecture hours)

INTERIOR DESIGN 1152

Architecture and Design History II

3 credit hours

Historical review of architecture and decorative arts from the French Renaissance through the 21st century. Includes selected vocabulary, classical forms, use of ornament, colors, motifs and furniture styles. Prerequisite: Interior Design 1151 or equivalen,t or consent of instructor (3 lecture hours)

INTERIOR DESIGN 1153

Architecture and Design History: Non-Western Cultures

3 credit hours

Survey of non-Western architecture history, styles and decorative arts. Emphasis on cultural design concepts, furniture motifs, color applications and vocabulary. (3 lecture hours)

INTERIOR DESIGN 1160

Environmental Textiles

2 credit hours

Textile fiber identification categories, serviceability concepts, properties, construction methods, and required life safety codes for residential and contract interior applications. (1 lecture hour, 2 lab hours)

INTERIOR DESIGN 1170

Environmental Materials and Applications

3 credit hours

Survey course on interior design materials and resources and their application in the built environment, with a focus on sustainable design. (2 lecture hours, 2 lab hours)

INTERIOR DESIGN 1180

Professional Practice and Ethics

2 credit hours

Interior design ethics, principles, practices, typical contract document formats, and resume concepts related to professional practice. (1 lecture hour, 2 lab hours)

INTERIOR DESIGN 1190

Barrier-Free and Life-Safety Codes

3 credit hours

Code information and specifications concerning built environment, life-safety issues, barrier-free access, Americans with Disabilities Act (ADA), and universal design requirements applied to residential, contract and office design. Includes current international codes and standards. Prerequisite: Interior Design 1110 or equivalent, or consent of instructor (3 lecture hours)

INTERIOR DESIGN 1821

Selected Topics I

3 credit hours

Guided study and exploration of subjects not covered by other courses in the discipline. Class offerings may use such resources as recognized experts, lectures, library research, selected readings and/or field trips. Class may be taken a maximum of three times for credit if different topics are selected or covered. Prerequisite: At least one course in the discipline or consent of instructor (2 lecture hours, 2 lab hours)

INTERIOR DESIGN 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

INTERIOR DESIGN 2211

Computer Applications I

3 credit hours

Introduction to two-dimensional computer-aided design and drafting techniques and commands for interior design applications. Prerequisite: Interior Design 1110 or consent of instructor (2 lecture hours, 2 lab hours)

INTERIOR DESIGN 2212

Computer Applications II

3 credit hours

Advanced computer-aided design and drafting techniques and commands for interior design applications. Prerequisite: Interior Design 2211 or consent of instructor (2 lecture hours, 2 lab hours)

INTERIOR DESIGN 2213

Computer Applications III

3 credit hours

Computer-aided design and drafting as a threedimensional drawing tool for Interior Design applications. Prerequisite: Interior Design 2212 or consent of instructor (2 lecture hours, 2 lab hours)

INTERIOR DESIGN 2220

Interior Architectural Details

2 credit hours

Design and drafting of architectural details for interior design applications. Prerequisites: Interior Design 1120 and 1170 or equivalent, or consent of instructor (1 lecture hour, 2 lab hours)

INTERIOR DESIGN 2311

Lighting I

3 credit hours

Fundamental lighting course that covers lighting specifications and working drawings for residential and contract lighting applications. Prerequisite: Interior Design 1110 or consent of instructor (2 lecture hours, 2 lab hours)

INTERIOR DESIGN 2312

Lighting II

3 credit hours

Advanced design studio that incorporates residential and commercial lighting environment and technology applications. Prerequisite: Interior Design 2311 or consent of instructor (2 lecture hours. 2 lab hours)

INTERIOR DESIGN 2410

Residential Design Studio

3 credit hours

Design studio course with emphasis on the development and presentation of residential design projects. Prerequisites: Interior Design 1140, 1160, 1190, 2211, 2220 and 2311, all with a grade of "C" or better, or consent of instructor (2 lecture hours, 2 lab hours)

INTERIOR DESIGN 2420

Universal Design Studio

3 credit hours

Residential design studio projects, which include barrierfree design codes and universal design principles. Prerequisites: Interior Design 1140, 1160, 1190, 2211, 2220 and 2311, all with a grade of "C" or better, or consent of instructor (2 lecture hours, 2 lab hours)

INTERIOR DESIGN 2430

Contract Design Studio

3 credit hours

Studio projects with emphasis on retail, hospitality, restaurant or health care design as applied to actual interior environments. Prerequisites: Interior Design 1140, 1160, 1190, 2211, 2220 and 2311, all with a grade of "C" or better, of consent of instructor (2 lecture hours, 2 lab hours)

INTERIOR DESIGN 2440

Office Design Studio

3 credit hours

Studio projects with emphasis on current office design trends, techniques and practices as applied to interior environments. Prerequisites: Interior Design 1140, 1160, 1190, 2211, 2220 and 2311, all with a grade of "C" or better, or consent of instructor (2 lecture hours, 2 lab hours)

INTERIOR DESIGN 2450

Senior Design Studio

3 credit hours

Capstone course of design studio projects utilizing actual end-user residential, office or contract interior environment requirements. Prerequisites: Interior Design 2420 or equivalent, and all 1000-level Interior Design courses, or consent of instructor (2 lecture hours, 2 lab hours)

INTERIOR DESIGN 2511

Kitchen and Bath Design I

3 credit hours

Design studio projects that incorporate National Kitchen and Bath Association (NKBA) standards. Prerequisite: Interior Design 2410 or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

INTERIOR DESIGN 2512

Kitchen and Bath Design II

3 credit hours

Advanced kitchen and bath design skills, market trends, special populations, professional ethics, and technology applications as endorsed by the National Kitchen and Bath Association (NKBA). Prerequisite: Interior Design 2511 or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

INTERIOR DESIGN 2515

Kitchen and Bath Computer Applications

3 credit hours

Introduction to industry-standard computer software for design and drafting techniques and commands to create kitchen and bath design production drawings. Prerequisites: Interior Design 2211 and 2511 or equivalents, or consent of instructor (2 lecture hours, 2 lab hours)

INTERIOR DESIGN 2520

Furniture Design

3 credit hours

Furniture design theory, construction joinery methods, materials and specifications applied to detail drawings and/or models. Prerequisite: Interior Design 1110 or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

INTERIOR DESIGN 2610

Portfolio Review

3 credit hours

Capstone course to develop a presentation portfolio utilizing printed and multimedia applications. Prerequisites: Interior Design 2410 and 2430 or equivalents, or consent of instructor (2 lecture hours, 2 lab hours)

INTERIOR DESIGN 2821

Advanced Selected Topics I

3 credit hours

Advanced exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. Prerequisite: At least one course in the discipline or consent of instructor (2 lecture hours, 2 lab hours)

For additional information, call Ann Cotton, program coordinator, at (630) 942-3081, Jane Kielb at (630) 942-2508, or the Business and Technology division at (630) 942-2592.

ITALIAN

ITALIAN 1100

Civilization and Culture of Italy

3 credit hours

Introduction in English to the culture, geography, history, economics, political institutions, literature, music, art, architecture and educational system of Italy. (3 lecture hours)

ITALIAN 1101

Elementary Italian I

4 credit hours

Develops the ability to speak, understand, read and write Italian in a cultural context. For the beginning student. (4 lecture hours)

ITALIAN 1102

Elementary Italian II

4 credit hours

Continues the development of the ability to speak, understand, read and write Italian in a cultural context. For students who have successfully completed Italian 1101 or equivalent, or one year of high school Italian. (4 lecture hours)

ITALIAN 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course descriptions, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

ITALIAN 2201

Intermediate Italian I

4 credit hours

Develops students' ability to speak, understand, read and write in a cultural context. Includes reading and discussion of modern texts, conversation, composition, grammar review and cultural activities. For students who have successfully completed Italian 1102 or equivalent, or two years of high school Italian. (4 lecture hours)

ITALIAN 2202 (IAI H1 900)

Intermediate Italian II

4 credit hours

Further develops students' ability to speak, understand, read and write in a cultural context. Includes reading and discussion of modern texts, conversation, composition, grammar review and cultural activities. For students who have successfully completed Italian 2201 or equivalent, or three years of high school Italian. (4 lecture hours)

ITALIAN 2251 (IAI H1 900)

Conversation and Composition I

3 credit hours

Develops students' listening comprehension, speaking, reading and writing skills and expands knowledge of the culture and civilization of Italy. For students who have successfully completed Italian 2202 or equivalent, or four years of high school Italian. (3 lecture hours)

ITALIAN 2252 (IAI H1 900)

Conversation and Composition II

3 credit hours

Continues to develop students' listening comprehension, speaking, reading and writing skills and expands knowledge of the culture and civilization of Italy. For students who have successfully completed Italian 2251 or equivalent, or five years of high school Italian. (3 lecture hours)

JAPANESE

JAPANESE 1100

Japanese Civilization and Culture

3 credit hours

Introduction in English to the culture, history, political institutions, mentality, literature/art and economic position of present-day Japan. (3 lecture hours)

JAPANESE 1101

Elementary Japanese I

4 credit hours

An introduction to modern Japanese: pronunciation, useful expressions, speech patterns, listening, reading and writing. (4 lecture hours)

JAPANESE 1102

Elementary Japanese II

4 credit hours

Continuation of Japanese 1101 with emphasis on increased accuracy in listening and speaking skills together with a continued emphasis on reading and writing. For students who have successfully completed Japanese 1101 or equivalent, or three years of high school Japanese. (4 lecture hours)

JAPANESE 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course descriptions, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

JAPANESE 2201

Intermediate Japanese I

4 credit hours

Continuation of Japanese 1102 with emphasis on listening, speaking and writing of kana and kanji as well as reading of authentic materials. For students who have successfully completed Japanese 1102 or equivalent, or four years of high school Japanese. (4 lecture hours)

JAPANESE 2202 (IAI H1 900)

Intermediate Japanese II

4 credit hours

Continuation of Japanese 2201 with emphasis on listening, speaking and writing of kana and kanji as well as reading of authentic materials. For students who have successfully completed Japanese 2201 or equivalent, or five years of high school Japanese. (4 lecture hours)

JAPANESE 2251 (IAI H1 900)

Conversation and Composition I

3 credit hours

Develops students' listening comprehension, speaking, reading and writing skills and expands knowledge of the culture and civilization of Japanese-speaking countries. For students who have successfully completed Japanese 2202 or equivalent. (3 lecture hours)

JAPANESE 2252 (IAI H1 900)

Conversation and Composition II

3 credit hours

Continue to develop students' listening comprehension, speaking, reading and writing skills and expands knowledge of the culture and civilization of Japanese-speaking countries. For students who have successfully completed Japanese 2251. (3 lecture hours)

JOURNALISM AND MASS COMMUNICATION

This subject area participates in the Illinois Articulation Initiative (IAI) Mass Communication major. To see how courses transfer to participating schools, go to www.itransfer.org/iai/majors or consult a C.O.D. faculty adviser.

JOURNALISM AND MASS COMMUNICATION 1100 Introduction to Mass Communication

3 credit hours

Overview of the mass media as a functionally integrated system with emphasis on the historical development, nature, functions and responsibilities in a global environment, in addition to the role of mass media in American society and the effect on consumer attitudes, expectations and behaviors. (3 lecture hours)

JOURNALISM AND MASS COMMUNICATION 1105 News Reporting and Writing

3 credit hours

Develops basic journalistic skills in reporting and writing news stories. Includes form and organization of news stories, leads, reporting of speeches and meetings, interviews, news gathering simulations and live exercises. Uses Internet, CD, word processing and other reporting resource technologies for assignments. (3 lecture hours)

JOURNALISM AND MASS COMMUNICATION 1110 **Newspaper Lab**

1 credit hour

Provides laboratory experience in writing, editing, photography, circulation, advertising and other aspects of publishing the campus newspaper during the regular academic year, or writing news and feature stories for local newspapers during the summer term. Experiences are assigned by the instructor as needed. Course may be taken four times for credit. (2 lab hours)

JOURNALISM AND MASS COMMUNICATION 1115 Feature Magazine Lab

1 credit hour

Laboratory experience in publishing the campus feature magazine, Chaparral. Opportunities for writing, editing, photography, page design and layout, advertising and circulation. Students are assigned to the campus feature magazine staff. Course may be taken four times for credit. (2 lab hours)

JOURNALISM AND MASS COMMUNICATION 1120 Introduction to Broadcasting

3 credit hours

Surveys roles and effects of broadcasting and cable industries. Emphasizes historical development, media regulations, terminology, programming and career opportunities. (3 lecture hours)

JOURNALISM AND MASS COMMUNICATION 1130 Basic News Editing

3 credit hours

Introduction to principles and techniques of electronic editing, information management and publication design. Emphasizes editing of body copy and display type for maximum clarity and impact. Students learn and apply Associated Press standard style for mass media publication writing. (3 lecture hours)

JOURNALISM AND MASS COMMUNICATION 1800 Field and Interdisciplinary Studies in Journalism and Mass Communication

1 to 3 credit hours

Experiential courses cover topics not otherwise covered by general education courses and other courses in the *Catalog* for journalism and mass communication. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent. This experiential component may include field studies, interdisciplinary learning and/or the practical application of

discipline-related concepts, theories, principles and methods with a specific focus. All courses hold an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics and other appropriate requirements).

JOURNALISM AND MASS COMMUNICATION 1840 Independent Study – Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

KOREAN

KOREAN 1100

Korean Civilization and Culture

3 credit hours

Introduction in English to the culture, history, political institutions, mentality, literature/art and economic position of present-day Korea. (3 lecture hours)

KOREAN 1101

Elementary Korean I

4 credit hours

An introduction to modern spoken Korean: pronunciation, useful expressions, speech patterns, listening, reading and writing. (4 lecture hours)

KOREAN 1102

Elementary Korean II

4 credit hours

Continuation of Korean 1101 with emphasis on increased accuracy in listening, speaking skills, reading and writing. For students who have successfully completed Korean 1101 or equivalent, or three years of high school Korean. (4 lecture hours)

KOREAN 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

KOREAN 2201

Intermediate Korean I

4 credit hours

Continuation of Korean 1102 with emphasis on listening, speaking and writing of han-gul as well as reading of authentic materials. For students who have successfully completed Korean 1102 or equivalent, or four years of high school Korean. (4 lecture hours)

KOREAN 2202

Intermediate Korean II

4 credit hours

Continuation of Korean 2201 with emphasis on listening, speaking and writing of han-gul as well as reading of authentic materials. For students who have successfully completed Korean 2201 or equivalent, or five years of high school Korean. (4 lecture hours)

LIBRARY AND INFORMATION TECHNOLOGY

LIBRARY AND INFORMATION TECHNOLOGY 1101 Introduction to Libraries and the Information Age 3 credit hours

Introduction to different types of libraries and the information industry. The role of the Library Technical Assistant (LTA) in all areas of the library profession is explored. An overview of basic library and information research methods and tools, both print and digital format, is presented. (3 lecture hours)

LIBRARY AND INFORMATION TECHNOLOGY 1102 Introduction to Reference and Information Services 4 credit hours

Introduction to reference and information services for the Library Technical Assistant (LTA). Includes basic tools needed to answer directional and ready reference questions. Print and electronic resources, interview techniques and virtual reference services are discussed. Prerequisite: Library and Information Technology 1101 with a grade of "C" or better or consent of instructor (4 lecture hours)

LIBRARY AND INFORMATION TECHNOLOGY 1103 Acquisition of Library Materials

3 credit hours

Introduces the Library Technical Assistant (LTA) to the process of how to acquire materials from the decision to obtain them to the time they are ready to be *cataloged*. Automation processes and techniques are incorporated. Prerequisite: Library and Information Technology 1101 with a grade of "C" or better or consent of instructor (3 lecture hours)

LIBRARY AND INFORMATION TECHNOLOGY 1104 Essential Library Workplace Skills

3 credit hours

Overview of the skills necessary to communicate effectively with coworkers and the public, work in team settings, deal with a variety of personality types, resolve conflicts and become an effective part of the library workforce. (3 lecture hours)

LIBRARY AND INFORMATION TECHNOLOGY 1820 Selected Topics in Librarianship

3 credit hours

Addresses current issues in the field that necessitate a greater depth, broader scope or fuller assimilation of a particular area of study. Prerequisite: Library and Information Technology 1101 or equivalent, or consent of instructor or program coordinator (3 lecture hours)

LIBRARY AND INFORMATION TECHNOLOGY 1840 Independent Study – Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

LIBRARY AND INFORMATION TECHNOLOGY 2100 Introduction to Cataloging and Classification 4 credit hours

The role of Library Technical Assistant (LTA) in descriptive and subject *catalog*ing and processing of print and non-print materials. Emphasis is on the organization of information resources in print and non-print formats. Includes the philosophy, tools and techniques for performing *catalog*ing. Prerequisite: Library and Information Technology 1101 with a grade of "C" or better or consent of instructor (4 lecture hours)

LIBRARY AND INFORMATION TECHNOLOGY 2200 Serving the Public in Today's Libraries

4 credit hours

Role of the Library Technical Assistant (LTA) in serving the public including programming, creating displays, basic circulation desk duties, shelf maintenance, interlibrary loan activities, registering and effective interaction with patrons. Automated and online systems are emphasized. Prerequisite: Library and Information Technology 1101 with a grade of "C" or better or consent of instructor (4 lecture hours)

LIBRARY AND INFORMATION TECHNOLOGY 2300 Multimedia Services and Equipment in Today's Library 3 credit hours

Basic operation, evaluation, selection and uses of media, hardware and software. Emphasis on hands-on experience and creation of a media portfolio. Prerequisite: Library and Information Technology 1101 with a grade of "C" or better or consent of instructor (3 lecture hours)

LIBRARY AND INFORMATION TECHNOLOGY 2600 Library Practicum

4 credit hours

Capstone course integrating the application of all course work in the Library and Information Technology program. Required seminars provide a forum for discussing issues related to working in the library field, guidance in searching for jobs, and instruction about how to create a professional portfolio. Prerequisites: Library and Information Technology 1102, 1103, 1104, 1820, 2100, 2200 and 2300 with a grade of "C" or better, or consent of instructor (2 lecture hours, 4 lab hours)

For additional information, call Linda Slusar, program coordinator, at (630) 942-2597, or call the Business and Technology division at (630) 942-2592.

LONG-TERM CARE ADMINISTRATION

LONG-TERM CARE ADMINISTRATION 1140 Introduction to Long-Term Care Administration

3 credit hours

Overview of the various settings for long-term care, including nursing homes, adult day care, assisted living and hospice. Introduction to the responsibilities of the administrator, certification and licensure procedures and standards, and relevant legal, funding and program issues. (3 lecture hours)

LONG-TERM CARE ADMINISTRATION 1151 Nursing Home Administrative Practices I

3 credit hours

Introduction to personnel management specific to longterm care, including staffing, scheduling, recruitment, training, performance appraisal, wage and benefit administration, job satisfaction, and employee health and safety. (3 lecture hours)

LONG-TERM CARE ADMINISTRATION 1152 Nursing Home Administrative Practices II

3 credit hours

Introduction to financial management in long-term care administration, including budgeting, accounting, internal controls, and equity and debt financing. (3 lecture hours)

LONG-TERM CARE ADMINISTRATION 1161 Aging and Long-Term Care I

2 credit hours

Survey of the physical, psychological, sociological and financial aspects of aging. Introduces related long-term care options, and current social policies and programs. (2 lecture hours)

LONG-TERM CARE ADMINISTRATION 1162 Aging and Long-Term Care II

2 credit hours

Continuation of Long-Term Care Administration 1161. Expands on the physical, psychological, sociological and financial aspects of aging as well as current policies and programs that can benefit the older adult. Prerequisite: Long-Term Care Administration 1161 or equivalent, or concurrent enrollment (2 lecture hours)

LONG-TERM CARE ADMINISTRATION 1840 Independent Study – Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

For additional information, call Robert Blair, (847) 515-8578, or the Health and Sciences division, (630) 942-2495.

MANAGEMENT

MANAGEMENT 1100

Supervision

3 credit hours

Prepares the individual to manage front-line workers and the responsibilities, problems, challenges and opportunities facing a supervisor. Presents the range of supervisory methods from classical to behavioral.

MANAGEMENT 1161

Small Business Management

3 credit hours

Introduction to management functions, problem areas, decision making and fundamentals for small business. Small business planning, controlling, organizing and directing. Human, financial and material resource management for small businesses. Prerequisite: Business 1161 or equivalent, or consent of instructor (3 lecture hours)

MANAGEMENT 1820

Selected Topics in Management

3 credit hours

Introductory exploration, discussion, review and analysis of selected topics in management with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (3 lecture hours)

MANAGEMENT 1840

Independent Study - Individualized

1 to 3 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 3 lecture hours)

MANAGEMENT 2170

Project Management

3 credit hours

Overview of project management tools and methodology. Includes the strategic significance of projects, project selection, team building and decision making, and project planning, scheduling, budgeting and resource allocation. Project implementation, control and termination are also included. Provides a foundation for those involved in using project management to decrease cycle times in ecommerce and traditional business operations. (3 lecture hours)

MANAGEMENT 2210

Principles of Management

3 credit hours

Essential principles and concepts of management. Includes theoretical bases and practical applications of planning, controlling, organizing and directing human, financial, material and informational resources. Integrates management history, decision-making models, international and diversity management with the functions of management. Covers classical and behavioral approaches to management. Completion of Business 1100 recommended prior to enrollment. (3 lecture hours)

MANAGEMENT 2215

Leadership

4 credit hours

Characteristics of leaders, leadership styles and methods, power, politics and influence styles, teamwork and leadership problem solving. Strategic leadership, international and diversity aspects of leadership and leadership development. Completion of Business 1100 or equivalent is recommended prior to enrollment. (3 lecture hours)

MANAGEMENT 2220

Organizational Behavior

3 credit hours

How people behave in organizations and the forces that affect individuals within organizations. Study of the working environment, organizational communications, the organizational framework and their effects on individual behavior, including self-management, motivation, morale, job satisfaction, change, leadership and organization etiquette. Includes current and future challenges organizations face. (3 lecture hours)

MANAGEMENT 2230

Purchasing

3 credit hours

Introduction to the materials acquisition process in industry and non-profit organizations. Topics include structure, tools and techniques for purchasing agents. Prerequisite: Business 1100 (3 lecture hours)

MANAGEMENT 2240

Human Resource Management

3 credit hours

Attracting, selecting, training and maintaining the human assets of an organization. Includes human resource planning, job design, performance appraisal, motivations, methods of compensation, workplace policies, labor relations, and internationalization of human resource management function. Completion of Business 1100 and Management 2210 or equivalents recommended prior to enrollment. (3 lecture hours)

MANAGEMENT 2250

Operation/Production Management

3 credit hours

Fundamental theories, concepts, functions, strategies and techniques involved in creating products/services. Design, conversion and transformation processes, quality, layout, materials, requirements, planning, inventory and control systems. Completion of Business 1100, Management 2210 and Math 1533 or equivalents recommended prior to enrollment. (3 lecture hours)

MANAGEMENT 2260

International Management

3 credit hours

Study of the dynamics involved in international business management. Explores key issues such as political, legal and labor environments, strategic planning and organizational design. Emphasis is placed on the role of managers and others in successful international operations. Completion of Business 1100 and Management 2210 or equivalents recommended prior to enrollment. (3 lecture hours)

For additional information, call Mike Drafke, program coordinator, at (630) 942-2075, or call the Business and Technology division at (630) 942-2592.

MANUFACTURING TECHNOLOGY

MANUFACTURING TECHNOLOGY 0480 Blueprint Reading for Machinists

1 credit hour

Lines, dimensions, tolerances, notes, symbols, specifications, materials, manufacturing processes and standards. Orthographic and pictorial projections. Machine shop terminology. (1 lecture hour)

MANUFACTURING TECHNOLOGY 1101 Industrial Design/CAD

3 credit hours

An introduction to the use of microcomputers for design of industrial blueprints of intermediate complexity. Sketching, lettering, orthographic projections, descriptive geometry, point, line and basic geometric shapes. The use of menus, layers, fonts and weights. Basic dimensioning, tolerancing and pictorial drawings. The student is expected to draw a blueprint with simple dimensions label and notes using different layers. (2 lecture hours, 2 lab hours)

MANUFACTURING TECHNOLOGY 1104 *Technical Mechanics*

2 credit hours

Analysis and solution of practical problems in technical mechanics. Application of basic calculations and standards for design and maintenance of mechanical systems. (2 lecture hours)

MANUFACTURING TECHNOLOGY 1110 *Metrology*

3 credit hours

Initial course in the science of precision measurement techniques. Basic and advanced methodology behind measurement principles and tools used in the measurement process. Emphasis on laboratory skills in dimensional measurement using micrometers, calipers and gage blocks. Basics of geometric tolerancing and data analysis. Various applications of measurement, including the Coordinate Measuring Machine (CMM), roundness measurement and surface finish measurement. Additional topics include optical systems and quality control methods, as well as calibration standards. (2 lecture hours, 2 lab hours)

MANUFACTURING TECHNOLOGY 1121 Physical Metallurgy

3 credit hours

Functions of the metallurgical laboratory and equipment, including mechanical testing, metallography, heat treatment and extractive metallurgy. Basic principles concerning materials science, including atomic and crystal arrangements and their effect on mechanical properties. Simple phase equilibrium. Ferrous and nonferrous metals and alloys classification systems. (2 lecture hours, 2 lab hours)

MANUFACTURING TECHNOLOGY 1126 Introduction to Plastics

3 credit hours

The theory and use of plastics in industry. Physical, chemical and electrical properties of plastics and testing criteria are discussed. Processes such as injection molding, extrusion, blow molding, rotational molding and thermoforming are covered. Control factors affecting the quality of parts, applications, benefits and limitations of plastics are explained. Related topics include process relationships, \process control and troubleshooting. (3 lecture hours)

MANUFACTURING TECHNOLOGY 1127 **Engineering Materials of Industry**

3 credit hours

Basic principles of materials technology, including the internal structures of materials, physical and mechanical properties, fusion and bonding, annealing and plastic deformation. (3 lecture hours)

MANUFACTURING TECHNOLOGY 1141

Hvdraulics and Pneumatics

3 credit hours

Principles of fluids at rest and in motion. Hydraulic and pneumatic pumps, motors, cylinders, boosters, valves, regulators and circuitry to transmit and control power. (3 lecture hours)

MANUFACTURING TECHNOLOGY 1151 Machine Shop I

3 credit hours

Designed for students with little background in the use of metal-working machine tools. Basic principles and operations on the engine lathe, vertical milling machine and surface grinder. Precision measurement. (2 lecture hours, 2 lab hours)

MANUFACTURING TECHNOLOGY 1153 **Advanced Machine Processes**

3 credit hours

The application of skills that are commonly known in the industry as "machine shop." The development of operation skills of traditional engine lathes, vertical/horizontal mills and grinding as well as operations on similar machines. Emphasis is on those skills needed by trades persons who have achieved proficiency in the operation of machines and related tooling and equipment. Quality skills related to machining and some planning and job control skills related to machine work. Prerequisite: Manufacturing Technology 1151 or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

MANUFACTURING TECHNOLOGY 1160 Technical Static and Strength of Material

4 credit hours

Basic analysis of external force systems acting upon bodies in equilibrium with subsequent treatment of the stresses and strains induced. Laboratory projects involve the use of nondestructive and destructive testing equipment to determine the various mechanical properties of materials and their behavior under load. Not intended for engineering students. Prerequisites: Physics 1201 and Mathematics 1432 or equivalents, and consent of instructor (3 lecture hours, 2 lab hours)

MANUFACTURING TECHNOLOGY 1171 Introduction to Robotic Technology

3 credit hours

Introduction to the basic theory and operation of robots in industrial automation. Basic robot and work-place design, safety procedures and robotic applications are studied. (2 lecture hours, 2 lab hours)

MANUFACTURING TECHNOLOGY 1180 **Quality Control**

3 credit hours

An introduction to quality control and the development of the concept of total quality control engineering, process improvement and quality information systems. A broad overview of total quality control and its scope throughout the business organization enables the student to analyze the various costs of quality and improve productivity. Topics will include 100 percent inspection versus statistical inspection and process control charts, as well as some of the tools of Organizational Development (OD) useful in promoting a Total Quality Control (TQC) and Total Quality Management (TQM) environment. (3 lecture hours)

MANUFACTURING TECHNOLOGY 1190 Introduction to Programmable Logic Controllers 3 credit hours

A survey of programmable logic controllers (PLC). Terminology, basic memory structure, I/O's (input/outputs), processors and programming devices. Basics of programming and applications. (2 lecture hours, 2 lab hours)

MANUFACTURING TECHNOLOGY 1700 Fundamentals of Plastics and Plastic Products 3 credit hours

Fundamentals of plastics materials as they pertain to plastic products. Topics include comparing and contrasting elastomers and plastics, and testing methods. Data sheet analysis used to predict product characteristics. Prerequisite: Manufacturing Technology 1126 with a grade of "D" or better or equivalent (3 lecture hours)

MANUFACTURING TECHNOLOGY 1820 Selected Topics I

10 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college Class Schedule. May be taken three times for credit as long as different topics are selected. (6 lecture hours, 8 lab hours)

MANUFACTURING TECHNOLOGY 1840 Independent Study – Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

MANUFACTURING TECHNOLOGY 2200 Machine Tool Technology

4 credit hours

A second-year apprentice course that is a continuation of the theory of process planning and process control. Emphasis is on the study of these concepts as they apply to Geometric Dimensioning and Tolerancing (GD&T), Computer Numerical Control (CNC) programming, basic fixturing, and advanced lathe and milling operations. Theory related to heat treating, machinability of materials and cutting tool materials. (4 lecture hours)

MANUFACTURING TECHNOLOGY 2201 Geometric Dimensioning and Tolerancing

3 credit hours

Introduces the principles of industrial drafting as specified by the American National Standards Institute (ANSI). Topics include part dimensional control techniques, interchangeability of parts and the differences between traditional dimensioning and geometric dimensioning. Symbols and terms for dimensioning, datum and materials condition symbols are introduced. Various tolerances of form, profile orientation, run-out and location are demonstrated. Feature control frames are discussed. Prerequisite: Manufacturing Technology 1101 or consent of instructor (3 lecture hours)

MANUFACTURING TECHNOLOGY 2202 **Solid Modeling and Design**

3 credit hours

The theory and application of solid modeling techniques for product design and manufacturing. Prerequisite: Manufacturing Technology 1101 or consent of instructor (2 lecture hours, 2 lab hours)

MANUFACTURING TECHNOLOGY 2203 Manufacturing Processes and Design

3 credit hours

A survey of manufacturing methods and materials employed in cold working processes. The student will understand the various methods of product fabrication and the manufacturing processes for sound economic decision making in manufacturing and product design. Other topics include the interrelationship among materials, their selection for use in product design and processes, and conversion of these materials into finished components. Prerequisite: Manufacturing Technology 2202 or consent of instructor (2 lecture hours, 2 lab hours)

MANUFACTURING TECHNOLOGY 2206 Mechanical Computer-Aided Drafting/Design 3 credit hours

Computer-aided drafting/design (CADD) as drafting tool for the creation of mechanical production drawings. Solids modeling concepts and application of geometric dimensioning techniques are explained. The student is expected to finish detail and assembly drawings from a layout and demonstrate an understanding of the principles of engineering and design. Prerequisites: Manufacturing Technology 2201 and 2202 or equivalents, and consent of instructor (2 lecture hours, 2 lab hours)

MANUFACTURING TECHNOLOGY 2207

Tool Design

3 credit hours

An advanced course on the designing of manufacturing production tools, molds, dies, jigs and fixtures. Prerequisite: Manufacturing Technology 2202 or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

MANUFACTURING TECHNOLOGY 2208 Mechanical Design Portfolio

3 credit hours

Practical overview of the design process with case materials and real-life design problems. Provides the student with an opportunity to create a design portfolio. Prerequisite: Manufacturing Technology 2207 or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

MANUFACTURING TECHNOLOGY 2240 Basic Parametric Design-Pro/E

3 credit hours

A basic course in creating 3-dimensional (3-D) parametric parts, 2-dimensional (2-D) drawings and 3-D assemblies. Includes multi-part models. Emphasis is on the philosophy of parametric design and constraints. Prerequisite: Experience in design and drafting (2 lecture hours, 2 lab hours)

MANUFACTURING TECHNOLOGY 2242 Advanced Parametric Design-Pro/E

3 credit hours

Advanced course in creating multi-part parametric assemblies, exploded assemblies, parts having complex surface features, and design of sheet metal parts in both a flattened and bent state using parametric modeling software. Includes associated drawing files. Prerequisite: Manufacturing Technology 2240 with a grade of "D" or better or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

MANUFACTURING TECHNOLOGY 2251 Computer Numerical Control (CNC)

3 credit hours

An introduction to CNC machinery as it applies to the operator and programmer. Introduction to CNC programming coding, set-up, tooling, operation and troubleshooting. Basic principles and applications of numerically controlled equipment and the set-up and operation of CNC machines. Prerequisite: Manufacturing Technology 1151 or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

MANUFACTURING TECHNOLOGY 2253 Computer-Aided Manufacturing (CAM)

3 credit hours

Introduction to computer assisted part of programming (CAM) as it applies to computer numerical control (CNC). Various types of programming systems. Piece part geometry definition, computer input of this geometry, and post processing this information into CNC code. This code is then used to machine parts. Familiarity with CAM software and mathematical skills required. The student is expected to demonstrate a measurable level of skill in geometry definition of the CAM system, post processor

knowledge to modify CNC code, and application of computer-aided design (CAD) to generate CNC code. Prerequisite: Manufacturing Technology 2251 or equivalent (2 lecture hours, 2 lab hours)

MANUFACTURING TECHNOLOGY 2261 Basic Die Making I

4 credit hours

Fundamental theory and study of tool and die making, including punch press sizes and feeds for dies, and their uses and relationships to each other. Prerequisite: Consent of instructor (4 lecture hours)

MANUFACTURING TECHNOLOGY 2262 Basic Die Making II

4 credit hours

Continuation of Basic Die Making I. Principles and processes used in sheet metal work, using stock-strip layouts, cutting and stripping pressures, and flat blank layouts. Prerequisite: Manufacturing Technology 2261 or equivalent, or consent of instructor (4 lecture hours)

MANUFACTURING TECHNOLOGY 2265

Mold Making I

4 credit hours

Mold construction, elastics, die casting, proper selection and heat treatment. Prerequisite: Consent of instructor (4 lecture hours)

MANUFACTURING TECHNOLOGY 2267 *Mold Making II*

4 credit hours

An advanced class in mold making. Emphasis is on the use of side cores, various methods of mold construction, fitting clearances, locking devices, and finishes required in mold cavities. Prerequisite: Manufacturing Technology 2265 or equivalent, or consent of instructor (4 lecture hours)

MANUFACTURING TECHNOLOGY 2271 *Robotic Application*

3 credit hours

Industrial applications of robots with emphasis on set-up, programming and operations. End effect or design and production line interfacing are studied. Prerequisite: Manufacturing Technology 1171 (2 lecture hours, 2 lab hours)

MANUFACTURING TECHNOLOGY 2272 Advanced Die Making and Engineering I

4 credit hours

An introduction to draw dies: the theory of the drawing of metal, metal reaction, problems and solutions used, lubricants and draw die reductions along with advanced work in gages, fixtures and intricate progressive dies. Prerequisite: Manufacturing Technology 2262 or equivalent, or consent of instructor (4 lecture hours)

MANUFACTURING TECHNOLOGY 2274 Advanced Die Making and Engineering II

4 credit hours

An advanced study of draw dies, including types, materials used, lubricants, and the theory of draw die reductions with a continuation of advanced work in gages, fixtures and intricate progressive dies. Prerequisite: Manufacturing

Technology 2272 or equivalent, and consent of instructor (4 lecture hours)

MANUFACTURING TECHNOLOGY 2276 Advanced Mold Making and Engineering I

4 credit hours

Theory and process of mold cavities using electrical impulse methods, thread molding and automatic unscrewing methods. Prerequisite: Manufacturing Technology 2267 or equivalent, or consent of instructor (4 lecture hours)

MANUFACTURING TECHNOLOGY 2277 Advanced Mold Making and Engineering II

4 credit hours

A continuation of Advanced Mold Making and Engineering I. Product standards for die casting and analysis of mold cavities by electrical impulse methods. Thread molding and automatic unscrewing methods, current advances in molds, molding machines and mold-making methods. Prerequisite: Manufacturing Technology 2276 or equivalent, and consent of instructor (4 lecture hours)

MANUFACTURING TECHNOLOGY 2280 *Industrial Safety*

2 credit hours

Survey and analysis of current problems and trends in the design and supervision of industrial accident prevention programs. (2 lecture hours)

MANUFACTURING TECHNOLOGY 2281 **Cost Analysis**

2 credit hours

Study of the economic interdependency of the design, tooling, manufacturing, inspection and testing decisions and the means of quantifying such decisions. Sources and controls of direct, indirect and fixed costs. Influences of cost-accounting practices on engineering decisions. Generating alternatives based on the principles of time and motion economics and work simplification. Cost estimation procedures and controls. (2 lecture hours)

For additional information regarding Manufacturing Technology, call Branislav Rosul, (630) 942-3390.

MARKETING

MARKETING 1100

Consumer Marketing

3 credit hours

Consumer behavior and marketing principles, concepts, functions and activities involved in generating consumer satisfaction through business and marketing transactions. (3 lecture hours)

MARKETING 1170

E-Marketing

3 credit hours

Strategic use of Internet and interactive electronic media to improve marketing efficiency and effectiveness in satisfying the needs of customers. (3 lecture hours)

MARKETING 1171

Database Marketing

3 credit hours

Strategy, methods and techniques used to design, generate, compile, analyze and strategically use marketing databases. (3 lecture hours)

MARKETING 1175

Customer Relationship Management

3 credit hours

Strategy and methods used to increase customer satisfaction and to improve and maintain customer relationships. (3 lecture hours)

MARKETING 1820

Selected Topics I

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (3 lecture hours)

MARKETING 1840

Independent Study - Individualized

1 to 3 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 3 lecture hours)

MARKETING 2210

Principles of Marketing

3 credit hours

Study of satisfying customer needs for goods and services. Marketing environments, marketing planning and marketing research. Market segmentation, targeting and positioning. Essentials of consumer behavior. Products, pricing, promotions and distribution. Basic competitor analysis and global marketing. Completion of Business 1100 recommended prior to enrollment. (3 lecture hours)

MARKETING 2215

Domestic Distribution Channels

3 credit hours

Creation and maintenance of a domestic logistics system to move products from producers to consumers. Role of distribution in the marketing effort and in meeting the needs of customers. Distribution channel design, management, motivation, evaluation, price determination and conflict resolution. Domestic logistics and distribution for Internet and direct marketing. Prerequisites: Business 1100 and Marketing 2210 or equivalents (3 lecture hours)

MARKETING 2220

Sales

3 credit hours

Selling as a problem-solving activity, strategic development, and implementation of the sales process and its components within the context of effective communication, customer relationships, motivation and behavioral theories, determination of customer needs, and

sales ethics. Completion of Business 1100 recommended prior to enrollment. (3 lecture hours)

MARKETING 2230

Retailing

3 credit hours

Strategic approach to principles and problems of retailing. Includes market information, organization, layout, location, merchandising, buying, receiving, display, promotion, price, control systems, human resources and government regulations. Completion of Business 1100 recommended prior to enrollment. (3 lecture hours)

MARKETING 2240

Advertising

3 credit hours

Theoretical and descriptive survey of the advertising function. Explains how advertising is used, identifies specific tasks employed, and describes how advertising is integrated into the entire marketing strategy. Included are analyses of regulatory issues, creative processes and media outlets. Completion of Business 1100 and Management 2210 recommended prior to enrollment. (3 lecture hours)

MARKETING 2250

Business to Business

3 credit hours

Application of marketing principles to the business/industrial/organizational market. Covers demand, marketing intelligence, and the development of strategy for products and services, supply chain management, pricing, promotion, control, customer relationship management, communication and electronic marketing methods. Completion of Business 1100 and Marketing 2210 recommended prior to enrollment. (3 lecture hours)

MARKETING 2255

International Logistics

3 credit hours

Planning, implementing and controlling an international system to move products from point of origin to consumers located in a different country. Covers the primary elements of international logistics, including legal considerations, transportation modes and packaging for export. (3 lecture hours)

MARKETING 2260

International Marketing

3 credit hours

Study the global marketing environment and the challenges and opportunities facing today's international marketer. Explores the major dimensions of the economic, social, cultural, political, legal and financial marketing environments and how these impact the applicability of traditional marketing principles to global business. Completion of Business 1100 and Marketing 2210 recommended prior to enrollment. (3 lecture hours)

For additional information, call Mike Drafke, program coordinator, at (630) 942-2075, or call the Business and Technology division at (630) 942-2592.

MATHEMATICS 0408

Arithmetic of Whole Numbers I

0.5 credit hour

Computation skills involving addition and subtraction of whole numbers and applications. (0.5 lecture hour)

MATHEMATICS 0409

Arithmetic of Whole Numbers II

0.5 credit hour

Computation skills involving multiplication and division of whole numbers and applications. (0.5 lecture hour)

MATHEMATICS 0410

Arithmetic of Whole Numbers

0.5 credit hour

Computation skills involving addition, subtraction, multiplication, division and applications of whole numbers. (0.5 lecture hour)

MATHEMATICS 0412

Arithmetic of Fractions I

0.5 credit hour

Computation skills involving addition and subtraction of fractions and mixed numbers. (0.5 lecture hour)

MATHEMATICS 0413

Arithmetic of Fractions II

0.5 credit hour

Computation skills involving multiplication and division of fractions and mixed numbers. (0.5 lecture hour)

MATHEMATICS 0415

Arithmetic of Decimals

0.5 credit hour

Computation skills involving addition, subtraction, multiplication and division of decimals. (0.5 lecture hour)

MATHEMATICS 0417

Arithmetic of Percents

0.5 credit hour

Computation skills involving percents, conversions among fractions, decimals and percents including applications. (0.5 lecture hour)

MATHEMATICS 0418

Arithmetic of Ratio/Proportion

0.5 credit hour

Computation skills involving ratio and proportion. (0.5 lecture hour)

MATHEMATICS 0420 Arithmetic: Special Topics

0.5 credit hour

Topics include exponents, roots, rounding and estimating. (0.5 lecture hour)

MATHEMATICS 0422

Arithmetic of Signed Numbers

0.5 credit hour

Computation skills involving addition, subtraction, multiplication and division of signed numbers, and properties of numbers. (0.5 lecture hour)

MATHEMATICS 0424

Algebra: Solving Linear Equations

0.5 credit hour

Solve linear equations algebraically. (0.5 lecture hour)

MATHEMATICS 0426

Algebra: Word Problems

0.5 credit hour

Word problems involving money, ratio and proportion, percent and variation. (0.5 lecture hour)

MATHEMATICS 0428

Algebra: Exponents

0.5 credit hour

Algebraic expressions involving positive, negative and zero exponents. (0.5 lecture hour)

MATHEMATICS 0430

Algebra: Factoring

0.5 credit hour

Factoring polynomials and its application in solving equations. (0.5 lecture hour)

MATHEMATICS 0432

Algebra: Fractions

0.5 credit hour

Computation skills involving addition, subtraction, multiplication and division of algebraic fractions and applications of algebraic fractions. (0.5 lecture hour)

MATHEMATICS 0434

Algebra: Graphing

0.5 credit hour

Graph linear and quadratic equations and linear inequalities. (0.5 lecture hour)

MATHEMATICS 0436

Algebra: Systems of Linear Equations

0.5 credit hour

Solving systems of linear equations including applications by graphing, elimination and substitution. (0.5 lecture hour)

MATHEMATICS 0438

Algebra: Radicals

0.5 credit hour

Simplifying algebraic expressions containing radicals by addition, subtraction, multiplication and division; radical equations; Pythagorean Theorem applications. (0.5 lecture hour)

MATHEMATICS 0440

Algebra: Quadratic Equations

0.5 credit hour

Solve quadratic equations by factoring and the quadratic formula. (0.5 lecture hour)

MATHEMATICS 0451

Essentials of Arithmetic I

2 credit hours

Fundamental skills in addition, subtraction, multiplication and division with respect to whole numbers, fractions, ratio and proportion, and decimals. Included are problemsolving techniques with practical application. Equivalent to the first half of Mathematics 0460. (2 lecture hours)

Essentials of Arithmetic II

2 credit hours

Principles of arithmetic, review of fractions, exponents, order of operations, percents and applications, ratio and proportion, and applications. (2 lecture hours)

MATHEMATICS 0455

Fundamentals of Algebra

2 credit hours

Covers essential fundamentals of algebra. Students begin with signed numbers, learn to solve equations and inequalities, apply properties of exponents, and perform fundamental operations with polynomials. Included are problem-solving techniques with practical application. Course may be taken four times for credit. (2 lecture hours)

MATHEMATICS 0460

College Arithmetic

3 credit hours

Principles of arithmetic. Fundamental operations with whole numbers, common fractions and decimals. Percents and applications in the world of business, including rational numbers, exponents and powers. (3 lecture hours)

MATHEMATICS 0470

Elementary Plane Geometry

3 credit hours

Points and lines in the plane, angles, triangles, quadrilaterals, polygonal regions, circles, and their relationships. Prerequisite: Mathematics 0481 (or college equivalent) with a grade of "C" or better or a qualifying score on the mathematics placement test (3 lecture hours)

MATHEMATICS 0481

Foundations for College Mathematics I

5 credit hours

Topics from elementary algebra: sets of numbers, operations with real numbers, variables, integral exponents, scientific notation, simplification of algebraic expressions, solving linear equations and inequalities in one variable, graphing linear equations, writing equations of lines, solving linear inequalities in two variables, solving systems of linear equations in two or more variables, applications, problem solving, operations with polynomials, factoring polynomials, and solving equations using factoring. Prerequisite: Mathematics 0460 (or college equivalent) with a grade of "C" or better or a qualifying score on the mathematics placement test (5 lecture hours)

MATHEMATICS 0482

Foundations for College Mathematics II

5 credit hours

Topics from elementary algebra and intermediate algebra: operations with algebraic fractions, solving equations with the algebraic fractions, radicals and rational exponents, complex numbers, solving quadratic equations, variation, solving equations and inequalities involving absolute value, function notation, graphing functions, inverse functions, exponential and logarithmic functions, applications, and problem solving. Prerequisite: Mathematics 0481 (or college equivalent) with a grade of "C" or better or a qualifying score on the mathematics placement test (5 lecture hours)

MATHEMATICS 0485

Algebra Refresher Workshop

0.5 credit hour

Designed as a focused review of the elementary and intermediate algebra techniques and associated problem-solving skills required for a student to be successful in college level math. Students meeting mastery-level performance qualifications in the workshop can take a written departmental exit examination for potential placement. Prerequisite: Consent of instructor (0.5 lecture hour)

MATHEMATICS 1100

Business Mathematics

3 credit hours

Applications of mathematics to business transactions. Analysis and solution of the business problems in profit and loss, interest, installment transactions, percent discounts, taxes, and payroll. Prerequisite: Mathematics 0460 (or college equivalent) with a grade of "C" or better or a qualifying score on the mathematics placement test (3 lecture hours)

MATHEMATICS 1102

Mathematics for Health Sciences

3 credit hours

Designed for health science majors. Topics include systems of measurements, use of formulas, dimensional analysis, percents, decimals, fractions, ratio and proportion, direct and inverse variation, solutions, and dosage calculations. Prerequisite: Mathematics 0481 (or college equivalent) with a grade of "C" or better or a qualifying score on the mathematics placement test (3 lecture hours)

MATHEMATICS 1104

Mathematics for Horticulture

3 credit hours

Designed for horticulture majors only. Topics include fractions, decimals, percents, systems of measurement, dimensional analysis, use of formulas, ratio and proportion, linear equations, perimeter, area, volume, and surface area as related to landscape, mixtures as related to seed, fertilizer and chemicals, estimation, scale drawings, sales including discount and markup, construction as related to landscape, and estimates and bids on landscaping projects. (3 lecture hours)

MATHEMATICS 1108

Perspectives of Mathematics

3 credit hours

The course surveys some of the major ideas of mathematics and relationships to the arts, life sciences, physical sciences, social sciences, games, etc. Topics are selected from number systems, inductive and deductive reasoning, algebraic processes and methods, geometry, probability and statistics. Prerequisites: Demonstrated geometry competency (level 2), and Mathematics 0481 (or college equivalent) with a grade of "C" or better, or a qualifying score on the mathematics placement test (3 lecture hours)

Technical Mathematics I

3 credit hours

For technical/occupational programs. Emphasizes problem-solving skills using elementary algebra, right angle trigonometry, and ratio and proportion. Prerequisite: Mathematics 0481 (or college equivalent) with a grade of "C" or better or a qualifying score on the mathematics placement test (3 lecture hours)

MATHEMATICS 1116

Technical Mathematics II

5 credit hours

A continuation of Technical Mathematics I emphasizing problem-solving skills using trigonometry, common logarithms and natural logarithms. Prerequisite: Mathematics 1115 with a grade of "C" or better (5 lecture hours)

MATHEMATICS 1120

Mathematical Foundations for Diagnostic Medical **Imaging Sonographers**

3 credit hours

Designed for Diagnostic Medical Imaging Sonography (DMIS) majors only. Mathematical applications and problem solving in the field of sonography are emphasized. Topics include systems of measurement, dimensional analysis, application of formulas, probability and statistics. Prerequisites: Consent of Diagnostic Medical Imaging Sonography coordinator and either Math 0482 (or college equivalent) with a grade of "C" or better or a qualifying score on the mathematics placement test or a qualifying A.C.T. math sub-score (3 lecture hours)

MATHEMATICS 1218 (IAI M1 904)

General Education Mathematics

3 credit hours

Designed to fulfill general education requirements and not designed as a prerequisite for any other college mathematics course. Focuses on mathematical reasoning and the solving of real-life problems, rather than routine skills. Logic and set theory are studied. Two other topics from the following list are to be studied in depth: counting techniques and probability, game theory, geometry, graph theory, statistics, and mathematics of finance. The regular use of calculators and/or computers will be emphasized. Prerequisite: Demonstrated geometry competency (level 2), and Mathematics 0482 (or college equivalent) with a grade of "C" or better, or a qualifying score on the mathematics placement test, or a qualifying A.C.T. math sub-score (3 lecture hours)

MATHEMATICS 1220 (IAI M1 901)

Quantitative Literacy

3 credit hours

Designed to fulfill general education requirements, and not designed as a prerequisite for any other college mathematics course. Provides the basic numeracy needed by a college graduate to reason about quantities, their magnitudes, and their relationships between and among other quantities. Topics include linear systems, linear programming, analysis and interpretation of graphs, logic and reasoning, descriptive statistics, the normal distribution, statistical inference, estimation and approximation. Prerequisite: Demonstrated geometry competency (level 2), and Mathematics 0482 (or college

equivalent) with a grade of "C" or better, or a qualifying score on the mathematics placement test, or a qualifying A.C.T. math sub-score. (3 lecture hours)

MATHEMATICS 1321

Mathematics for Elementary School Teachers I

4 credit hours

Designed for elementary education majors. Sets, logic and mathematical reasoning, problem solving, numeration systems, and elementary number theory. Properties, algorithms, and computation with the sets of whole numbers, integers, rational, and real numbers. One of the requirements for receiving credit in the course is an arithmetic proficiency test that must be passed with a score of at least 80 percent correct. Prerequisites: Demonstrated geometry competency (level 1), and Mathematics 0482 (or college equivalent) with a grade of "C" or better, or a qualifying score on the mathematics placement test, or a qualifying A.C.T. math sub-score (4 lecture hours)

MATHEMATICS 1322 (IAI M1 903)

Mathematics for Elementary School Teachers II

A continuation of Mathematics 1321. Designed for elementary education majors. Introduction to probability and statistics, measurement, geometric constructions, coordinate geometry, and geometric, transformations. Prerequisite: Mathematics 1321 (or college equivalent) with a grade of "C" or better and demonstrated geometry competency (level 1) (3 lecture hours)

MATHEMATICS 1340

History of Mathematics

3 credit hours

The historical development of mathematics and certain mathematical concepts from ancient times to the present, with emphasis given to basic and intermediate mathematics concepts. The focus of this mathematicsdriven course will be on the problems mathematicians have faced, and the theory and methodology that were developed to resolve these problems. Prerequisite: Mathematics 1218 (or college equivalent) with a grade of "C" or better (3 lecture hours)

MATHEMATICS 1428

College Algebra with Applications

3 credit hours

The study of algebra with emphasis on applications. This course should not be taken by students planning to enroll in calculus. Topics include, but are not limited to, matrices, functions, conic sections, polynomials, exponential and logarithmic functions, and sequences and series. Prerequisites: Demonstrated geometry competency (level 2), and Mathematics 0482 (or college equivalent) with a grade of "C" or better, or a qualifying score on the mathematics placement test, or a qualifying A.C.T. math sub-score (3 lecture hours)

MATHEMATICS 1431

Precalculus I

5 credit hours

A formal study of algebra with emphasis on concepts needed for calculus. Topics include, but are not limited to, functions, conic sections, matrices and determinants, polynomial theory, rational functions, sequences and

series, logarithmic and exponential functions, combinatorial mathematics, and mathematical induction. Prerequisites: Demonstrated geometry competency (level 2), and Mathematics 0482 (or college equivalent) with a grade of "C" or better, or a qualifying score on the mathematics placement test, or a qualifying A.C.T. math sub-score (5 lecture hours)

MATHEMATICS 1432

Precalculus II: Trigonometry

3 credit hours

A formal study of trigonometry with emphasis on concepts needed for calculus. Topics include, but are not limited to, formal definition of trigonometric functions and circular functions, radian measure, inverse trigonometric functions, graphs of trigonometric functions and inverse trigonometric functions, trigonometric identities, trigonometric equations, DeMoivre's theorem, solution of triangles, polar coordinates, and applications. Prerequisites: Mathematics 1431 (or college equivalent) with a grade of "C" or better or a qualifying score on the mathematics placement test or a qualifying A.C.T. math sub-score (3 lecture hours)

MATHEMATICS 1533 (IAI M1 906)

Finite Mathematics

4 credit hours

Designed primarily for students planning to major in business, or the behavioral, social or biological sciences. Topics include sets, counting techniques, probability, modeling, systems of linear equations and inequalities, matrix algebra, linear programming, Markov chains and game theory. Applications are presented from business and the above sciences. Prerequisites: Mathematics 1428 (or college equivalent) with a grade of "C" or better or Mathematics 1431 (or college equivalent) with a grade of "C" or better or a qualifying score on the mathematics placement test, or a qualifying A.C.T. math sub-score (4 lecture hours)

MATHEMATICS 1635 (IAI M1 902)

Statistics

4 credit hours

Elementary statistics: elements of descriptive and inferential statistics. Communication with data descriptions and graphs. Probability principles and their use in developing probability distributions. Binomial, normal, student-t, chi-square and F distributions. Hypothesis testing, estimation, contingency tables, linear regression and correlation, and one-way ANOVA. Prerequisites: Mathematics 1428 (or college equivalent) with a grade of "C" or better or Mathematics 1431 (or college equivalent) with a grade of "C" or better or Mathematics 1533 (or college equivalent) with a grade of "C" or better, or a qualifying score on the mathematics placement test, or a qualifying A.C.T. math sub-score (4 lecture hours)

MATHEMATICS 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within mathematics to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

MATHEMATICS 2115 (IAI M1 905)

Discrete Mathematics

3 credit hours

An introduction to the formal study of discrete structures in mathematics. Topics include set theory, combinatorial mathematics, logic, graph theory, Boolean algebra and formal languages. Prerequisites: Mathematics 1428 (or college equivalent) with a grade of "C" or better or Mathematics 1431 (or college equivalent) with a grade of "C" or better, or a qualifying score on the mathematics placement test, or a qualifying A.C.T. math sub-score (3 lecture hours)

MATHEMATICS 2134 (IAI M1 900-B)

Calculus for Business and Social Sciences

4 credit hours

Designed primarily for students planning to major in business, or behavioral, social or biological sciences. The basic concepts of differential and integral calculus are taught with emphasis on a wide variety of applications. Prerequisite: Mathematics 1431 (or college equivalent) with a grade of "C" or better or a qualifying score on the mathematics placement test, or a qualifying A.C.T. math sub-score (4 lecture hours)

MATHEMATICS 2231 (IAI M1 900-1)

Calculus and Analytic Geometry I

5 credit hours

Lines, circles, functions, limits, continuity, the derivative, rules for differentiation of algebraic and trigonometric functions, related rates, mean value theorem, optimization and curve sketching, differentials, Newton's method, antiderivatives and integration, the fundamental theorem of calculus, and applications of the definite integral. Prerequisites: Mathematics 1431 (or college equivalent) with a grade of "C" or better and Mathematics 1432 (or college equivalent) with a grade of "C" or better, or a qualifying score on the mathematics placement test, or a qualifying A.C.T. math sub-score (5 lecture hours)

MATHEMATICS 2232 (IAI M1 900-2)

Calculus and Analytic Geometry II

5 credit hours

Transcendental functions, techniques of integration, indeterminate forms, improper integrals, sequences and series, Taylor and Maclaurin expansions, power series, conics, parametric equations, polar coordinates, introduction to vectors, and operations on vectors. Prerequisite: Mathematics 2231 (or college equivalent) with a grade of "C" or better (5 lecture hours)

MATHEMATICS 2233 (IAI M1 900-3)

Calculus and Analytic Geometry III

4 credit hours

Geometry of space, cylindrical and spherical coordinate systems, vector functions with physics applications, arc length, curvature, multivariate functions, partial derivatives, multiple integrals and their applications, vector fields and their applications, line integrals and their applications, and Green's theorem in the plane. Prerequisite: Mathematics 2232 (or college equivalent) with a grade of "C" or better 4 lecture hours)

Linear Algebra

4 credit hours

Geometric vectors and vector spaces, matrices and linear transformations, inner product spaces, eigenvalues and eigenvectors, the determinant function, and formal methods of mathematical proof. Prerequisite: Mathematics 2232 (or college equivalent) with a grade of "C" or better (4 lecture hours)

MATHEMATICS 2270

Differential Equations

4 credit hours

Equations of first order with applications, homogeneous linear equations of higher order with constant coefficients, non-homogeneous linear equations of higher order with constant coefficients, Laplace transform methods, applications of higher order differential equations, linear equations with variable coefficients, power series solutions, systems of linear equations, and numerical solutions of first order equations. Prerequisite: Mathematics 2233 (or college equivalent) with a grade of "C" or better (4 lecture hours)

MATHEMATICS 2300

Mathematical Proof

3 credit hours

This course serves as a transition to upper level mathematics with a focus on writing proofs. Topics include propositional logic, predicate logic, set theory, mathematical induction, number theory, relations and functions. Prerequisite: Mathematics 2232 (or college equivalent) with a grade of "C" or better (3 lecture hours)

For additional information regarding Mathematics, call Gerald Krusinski, (630) 942-2055.

MICROBIOLOGY

MICROBIOLOGY 1420 (IAI L1 903L)

Microbiology

4 credit hours

The study of bacteria, viruses and other microbes. Included are identification techniques, microbial genetics, immunology, growth and control, an overview of those microbes important to man, and modern molecular issues. Intended for students in health, food and environmental fields as well as biology majors. Biology 1151 is strongly recommended. (3 lecture hours, 3 lab hours)

MICROBIOLOGY 1840

Independent Study – Individualized

1 to 4 credit hours

Exploration and analysis of topics within microbiology to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

For additional information regarding Microbiology, call Susan Stamler, (630) 942-2348, or Karen Persky, (630) 942-3932.

MOTION PICTURE/TELEVISION

MOTION PICTURE/TELEVISION 1011

Introduction to Motion Pictures and Television

3 credit hours

Hands-on introduction to motion pictures and television, emphasizing basic pre-production, production and post-production in animation, audio, television commercials and digital film shorts. Cameras, microphones and basic nonlinear editing systems are used. (1 lecture hour, 4 lab hours)

MOTION PICTURE/TELEVISION 1020

Editing for Motion Pictures and Television

3 credit hours

Introduction to picture and sound editing for motion pictures and television. Explores editing aesthetics, theory and techniques using a non-linear editing system. Emphasis on creation and critique of pieces for in-class use. Material for editing is provided. (1 lecture hour, 4 lab hours)

MOTION PICTURE/TELEVISION 1022

Audio for Motion Pictures and Television

3 credit hours

Introduction to audio production and post-production for motion pictures and television. Explores audio aesthetics, theory and techniques. Includes field and studio recording, multi-track mixing and audio editing. Prerequisite: Motion Picture/Television 1011 or consent of instructor (1 lecture hour, 4 lab hours)

MOTION PICTURE/TELEVISION 1111 Film/Video Production Aesthetics

2 credit hours

An introduction to film and video as an art form, including a study of the aesthetic and production elements of the medium. Emphasizes the use of visual and audio designs in cinematic storytelling. Screenings, lectures and production projects are used. (2 lecture hours, 1 lab hour)

MOTION PICTURE/TELEVISION 1113 Film/Video Production History

2 credit hours

An international survey of the historical development of film, emphasizing a study of films and innovations in film production that have had significant influence on film as an art form. Screenings, lectures, discussions and production projects are used. (2 lecture hours, 1 lab hour)

MOTION PICTURE/TELEVISION 1120

Cinematography

3 credit hours

An introduction to camera and lighting techniques used in film and video productions. Emphasizes aesthetics, light placement, exposure, equipment, movement and crew roles. Prerequisite: Motion Picture/Television 1111 or consent of instructor (1 lecture hour, 4 lab hours)

MOTION PICTURE/TELEVISION 1122 Screenwriting for Short Film Production

3 credit hours

An introduction to screenwriting for motion pictures, using the short film. Explores concepts and techniques relevant to screenwriting for features or shorts, including three-act structure, characters, dialogue, action and format. Screenwriting software is used. Prerequisite: Motion Picture/Television 1111 or consent of instructor (3 lecture hours)

MOTION PICTURE/TELEVISION 1220 Introduction to Television Production

3 credit hours

Introduction to multi-camera studio production and location video recording. Explores directing techniques, operation of studio and control room, conceptualization, basic script writing, audio board operations and lighting in a studio setting. (6 lab hours)

MOTION PICTURE/TELEVISION 1311

Introduction to Animation

3 credit hours

An introduction to the animated story and character creation using traditional techniques of character animation. (6 lab hours)

MOTION PICTURE/TELEVISION 1313

History of Animation

3 credit hours

Study the animated film from its origins through current times focusing on animation firsts, experimental animations, short subject, propaganda and features. The student explores animation as an art form and a means of self expression. (1 lecture hour, 4 lab hours)

MOTION PICTURE/TELEVISION 1320

Two-Dimensional Animation II

3 credit hours

A continued exploration of two-dimensional computer animation, allowing for completion of more complex animation projects and incorporation of interactive elements. Prerequisite: Motion Picture/Television 1311 or equivalent, or consent of instructor (6 lab hours)

MOTION PICTURE/TELEVISION 1324 Motion Graphics and Special Effects I

3 credit hours

Explores basic and intermediate aspects of compositing, animating and creating special effects and motion graphics with compositing software. The student learns to add effects or enhance the look of existing footage or create entire animations from inception. Practical application and use of compositing software in the commercial world. (6 lab hours)

MOTION PICTURE/TELEVISION 1820

Selected Topics

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (3 lecture hours)

MOTION PICTURE/TELEVISION 1822

Selected Topics

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (1 lecture hour, 4 lab hours)

MOTION PICTURE/TELEVISION 1823

Selected Topics IV

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (6 lab hours)

MOTION PICTURE/TELEVISION 1840 Independent Study – Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

MOTION PICTURE/TELEVISION 2031

Pre-Production for Motion Picture and Television

3 credit hours

An introduction to the duties of the motion picture or television producer in commercials, news, documentaries or narrative films. The pre-production process is emphasized, including the areas of problem solving, prioritization, team building, budgeting and scheduling. Prerequisite: Motion Picture/Television 1011 or consent of instructor (2 lecture hours, 2 lab hours)

MOTION PICTURE/TELEVISION 2131

Film/Video Production

3 credit hours

An intermediate study in film and video production, integrating basic skills in screenwriting, producing and directing with further work in cinematography, sound and editing. Includes pre-production, production and post-production on short digital film or video projects for portfolio or festival use. Prerequisites: Motion Picture/Television 1020, 1120 and 1122 or consent of instructor (6 lab hours)

MOTION PICTURE/TELEVISION 2133

Directing for Film/Video

3 credit hours

An introduction to concepts and techniques used in directing narrative motion pictures. Emphasizes script analysis, pre-visualization, casting, working with actors and working with crew. Prerequisites: Motion Picture/Television 1020, 1120 and 1122 or consent of instructor (1 lecture hour, 4 lab hours)

MOTION PICTURE/TELEVISION 2140

Advanced Film/Video Production

3 credit hours

An advanced workshop in film and video production, emphasizing further work in producing and directing. Includes pre-production and production on one longer digital film or video project for portfolio or festival use. Prerequisites: Motion Picture/Television 2031, 2131 and 2133 or consent of instructor (6 lab hours)

MOTION PICTURE/TELEVISION 2231

Photojournalism for Television

3 credit hours

The study and practice of techniques employed in shooting and editing television news. Emphasis is placed on proper field shooting techniques and news story editing. Prerequisite: Motion Picture/Television 1011 or 1020, or equivalents, or consent of instructor (1 lecture hour, 4 lab hours)

MOTION PICTURE/TELEVISION 2233

Documentary Production

3 credit hours

Students are introduced to documentary filmmaking, emphasizing the technical and aesthetic aspects of documentary production. Production projects are geared toward the development of technical proficiency in small-format documentary pre-production, production and post-production. Prerequisite: Motion Picture/Television 1020 or consent of instructor (6 lab hours)

MOTION PICTURE/TELEVISION 2240

Advanced Television Production

3 credit hours

An advanced production course that emphasizes producing and directing techniques for television news. This class builds television production skills, introduces the fundamentals of advanced script writing, and offers more in-depth, hands-on experiences with various television equipment. Prerequisite: Motion Picture/Television 2231 or consent of instructor (6 lab hours)

MOTION PICTURE/TELEVISION 2331

Three-Dimensioinal Animation I

3 credit hours

An introduction to three-dimensional computer animation, including creating and modifying simple models, lights and camera placement, creating materials and rendering. (6 lab hours)

MOTION PICTURE/TELEVISION 2333

Motion Graphics and Special Effects II

3 credit hours

Explores intermediate and advanced aspects of compositing, animating and creating special effects and motion graphics with compositing software. The student learns to add effects or enhance the look of existing footage or create entire animations from inception. Practical application and use of compositing software in the commercial world. Prerequisite: Motion Picture/Television 1324 with a grade of "C" or better, or consent of instructor (6 lab hours)

MOTION PICTURE/TELEVISION 2335

Sound and Lighting for Animation

3 credit hours

Covers animation basics, project planning for animation, lighting, and sound for animation. Students create a stopmotion animation that will demonstrate proficiency in these areas. (6 lab hours)

MOTION PICTURE/TELEVISION 2340

Three-Dimensional Animation II

3 credit hours

Advanced concepts in three-dimensional computer animation, allowing students to complete a portfolio-level

animated project. Prerequisite: Motion Picture/Television 2331 or equivalent, or consent of instructor (6 lab hours)

MOTION PICTURE/TELEVISION 2342

Animation Portfolio

3 credit hours

Capstone course of the animation program assesses student competencies through problem-solving activities of the animation industry. Students focus on skill reinforcement and portfolio development. Prerequisites: Advertising, Design & Illustration 2211, Art 2201, Motion Picture/Television 1311 and 1313, all with a grade of "C" or better, or consent of instructor (6 lab hours)

MOTION PICTURE/TELEVISION 2820

Advanced Selected Topics

3 credit hours

Advanced exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (3 lecture hours)

MOTION PICTURE/TELEVISION 2822

Advanced Selected Topics

3 credit hours

Advanced exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. Prerequisite: At least one course in the discipline or consent of instructor (1 lecture hour, 4 lab hours)

MOTION PICTURE/TELEVISION 2823

Advanced Selected Topics IV

3 credit hours

Advanced exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. Prerequisite: At least one course in the discipline or consent of the instructor (6 lab hours)

For additional information, call Jennifer Piehl (630) 942-2109, Tony Venezia (630) 942-2020 or John Rangel (630) 942-2910.

MUSIC

MUSIC 1100 (IAI F1 900)

Music Appreciation

3 credit hours

A general introductory course designed to enhance listening enjoyment and ability. Emphasis on the elements of music, the characteristic styles of major historical periods, and the lives and works of key composers within the Western musical tradition. Course includes in-class demonstrations and attendance at outside musical events. No previous musical study required. (3 lecture hours)

MUSIC 1101

Music Theory I

3 credit hours

Introductory studies in music, including fundamentals, figured bass realization, analysis of small structures and

music writing. Emphasis on diatonic harmony. Concurrent enrollment in Music 1107 and 1171 is required, or consent of instructor. (3 lecture hours)

MUSIC 1102

Music Theory II

3 credit hours

Continued studies in music, including figured bass realization, analysis of small forms and music writing. Emphasis on diatonic harmony. Concurrent enrollment in Music 1108 and 1172 is required. Prerequisite: Music 1101 with a grade of "C" or better or equivalent (3 lecture hours)

MUSIC 1104 (IAI F1 904)

Introduction to American Music

3 credit hours

A survey of various American contributions to the world's musical culture, with an emphasis on understanding musical terminology and developing the ability to listen intelligently. No previous musical experience is required. Musical examples will include 19th century classical compositions and subsequent gospel, blues, jazz and popular music, presented within a general overview of American culture of the time. (3 lecture hours)

MUSIC 1105

Music Literature

3 credit hours

Introduction to the characteristic styles of major historical periods and to representative composers. Provides exposure to different performing media and musical forms. Includes in-class demonstrations, extensive listening, and attendance at outside musical events. Assumes a fundamental knowledge of the elements of music. Designed to increase the understanding of music literature through emphasis on development of musical vocabulary. (3 lecture hours)

MUSIC 1107

Aural Skills I

1 credit hour

The study of eartraining and sightsinging utilizing diatonic materials. Course content includes the recognition of intervals, scales and modes, as well as dictation of melodic, harmonic and rhythmic material reinforcing concepts presented in Music 1101. Student must be registered concurrently in Music 1101 and 1171, or consent of instructor. (3 lab hours)

MUSIC 1108

Aural Skills II

1 credit hour

The continued study of eartraining and sightsinging utilizing diatonic materials. Course content includes the recognition of chords and dictation of melodic, harmonic and rhythmic material reinforcing concepts presented in Music 1102. Student must be registered concurrently in Music 1102 and 1172. Prerequisite: Music 1107 with a grade of "C" or better or equivalent (3 lab hours)

MUSIC 1115 (IAI F1 903N)

Introduction to World Music

3 credit hours

An introduction to the great variety of musical styles from around the world. Examines representative music of the

non-Western world, with an emphasis on its function within the culture of which it is a part. No previous musical experience is required. Emphasizes an understanding of basic musical terminology and the development of improved listening skills. (3 lecture hours)

MUSIC 1120

College of DuPage Concert Choir

1 credit hour

The Concert Choir is a non-auditioned ensemble that sings outstanding choral works of many styles, genres and eras. Repertoire includes short and medium-length works. May be taken four times for credit. (3 lab hours)

MUSIC 1125

College of DuPage Jazz Choir

1 credit hour

The Jazz Choir performs vocal jazz literature representing many styles, including swing, ballad, bebop, Latin and contemporary selections. Study includes improvisation, ensemble singing and microphone technique. May be taken four times for credit. Prerequisite: Audition required (3 lab hours)

MUSIC 1130

College of DuPage Chamber Singers

1 credit hour

The Chamber Singers specialize in vocal chamber music of all periods with particular emphasis on Renaissance madrigal and motets, music of the 20th century, and the music of many cultures. Contemporary music includes major composers, avant-garde music and arrangements of folk, ethnic and popular music. May be taken four times for credit. Prerequisite: Audition required (3 lab hours)

MUSIC 1140

Symphony Orchestra

1 credit hour

Preparation and performance of standard orchestral literature. Placement audition recommended. May be taken four times for credit. Prerequisite: Placement audition may be requested of new members (3 lab hours)

MUSIC 1141

Chamber Orchestra

1 credit hour

Preparation and performance of music for small orchestra. May be taken four times for credit. Prerequisite: Placement audition may be requested of new members (3 lab hours)

MUSIC 1150

DuPage Chorale

1 credit hour

A large community chorus that performs choral concerts, often in conjunction with a professional orchestra. Repertoire includes standard choral works by Bach, Handel, Mozart and Brahms, as well as modern masterpieces by Orff, Poulenc, Stravinsky and others. Also performs shorter choral works, sacred and secular, American and international, contemporary and historical. No audition necessary. May be taken four times for credit. (3 lab hours)

MUSIC 1153

New Classic Singers

1 credit hour

A highly select choral ensemble, for mature, experienced singers with the desire and capability of performing the most challenging choral music of all periods. Registration only by permission of instructor. May be taken four times for credit. Prerequisite: Audition required (3 lab hours)

MUSIC 1170

Class Voice

2 credit hours

A basic introduction to the art of singing and the techniques of voice production. Breathing, phrasing and interpretation. Participation in choral performance groups strongly recommended. (2 lecture hours)

MUSIC 1171

Class Piano I

1 credit hour

Development of fundamental keyboard skills as well as basic reading and music theory fundamentals. Introduction to basic playing techniques. Emphasizes awareness of musical notation, rhythm and rhythmic patterns, tonal patterns and keyboard skills. (2 lab hours)

MUSIC 1172

Class Piano II

1 credit hour

Continued development of fundamental keyboard skills. Basic playing techniques, music notation, rhythm, tonal patterns, primary chords, scales, keyboard skills and piano literature. Prerequisite: Music 1171 with a grade of "C" or better or consent of instructor (2 lab hours)

MUSIC 1175

Applied Music: Non-Major

1 credit hour

Private instrumental or vocal instruction to develop musical skills primarily for personal enrichment. Additional instruction fee is paid by the student directly to the teacher. Concurrent enrollment in one of the college's instrumental or vocal groups is recommended. May be taken four times for credit. (0.5 lecture hour, 0.5 lab hour)

MUSIC 1178

Voice Performance Workshop

1 credit hour

A workshop for the development of the student's complete vocal performance. Class focuses on interpretation, dramatic presentation and musicianship of the singer. Prerequisite: Music 1170 or previous college-level private voice study (2 lab hours)

MUSIC 1180

Community Band

1 credit hour

A community band without audition, open to wind, brass and percussion players of all ages. Performances feature marches, orchestral transcriptions, popular works for band, and solos by band members. Rehearsals include concert preparation, sight reading and sectional practice in a supportive atmosphere. May be taken four times for credit. (3 lab hours)

MUSIC 1181

DuPage Community Jazz Ensemble

1 credit hour

DuPage Community Jazz Ensemble is a big band with expanded traditional instrumentation that rehearses weekly and performs at least three times during the academic year. Placement audition is recommended. May be taken four times for credit. (3 lab hours)

MUSIC 1185

Applied Music: Music Major

2 credit hours

Private instrumental or vocal instruction for students planning to continue music studies at a baccalaureategranting institution. Additional instruction fee is paid by student directly to the teacher. Concurrent enrollment in one of the college's instrumental or vocal groups is recommended. May be taken four times for credit. Faculty assessment recommended to determine if student has technical skills necessary for baccalaureate study (1 lab hour)

MUSIC 1190

Small Group Jazz Ensemble

1 credit hour

An ensemble designed to address the fundamental concepts of jazz performance. Includes reading a jazz lead sheet, improvising over various forms common in jazz, and constructing small-group arrangements. May be taken four times for credit. Prerequisite: Placement audition recommended (3 lab hours)

MUSIC 1191

Jazz Ensemble

1 credit hour

A performance group with audition required. A professional music ensemble in residence at the McAninch Arts Center. May be taken four times for credit. Prerequisite: Audition required (0.5 lecture hour, 2.5 to 3 lab hours)

MUSIC 1192

Percussion Ensemble

1 credit hour

A chamber ensemble that studies and performs repertoire written specifically for the percussion family as well as transcriptions adaptable to percussion. May be taken four times for credit. Prerequisite: Audition required (3 lab hours)

MUSIC 1193

Guitar Ensemble

1 credit hour

Guitar Ensemble is a large chamber ensemble that performs 20th century American music. May be taken four times for credit. (2 lab hours)

MUSIC 1195

Opera Workshop

1 credit hour

Study of opera and musical theatre repertoire as developed through ensemble participation. Student will develop performances of solos and ensembles from musical theatre and opera works with emphasis on text and character analysis, musical and dramatic decisionmaking, and presentation. Prerequisite: college-level

private voice study or instructor's permission. May be taken four times for credit. (3 lab hours)

MUSIC 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

MUSIC 2201

Music Theory III

3 credit hours

Continued studies in music, including figured bass realization, analysis of larger musical forms and music writing. Emphasis on chromatic harmony. Concurrent enrollment in Music 2207 and 2271 is required. Prerequisite: Music 1102 with a grade of "C" or better or equivalent (3 lecture hours)

MUSIC 2202

Music Theory IV

3 credit hours

Continued studies in music, including figured bass realization, music analysis and music writing. Emphasis on post-romantic and 20th century techniques and styles. Concurrent enrollment in Music 2208 and 2272 is required. Prerequisite: Music 2201 with a grade of "C" or better or equivalent (3 lecture hours)

MUSIC 2207

Aural Skills III

1 credit hour

Continued study of eartraining and sightsinging utilizing chromatic materials. Includes recognition of melodic and harmonic chromaticism, as well as dictation of melodic, harmonic and rhythmic material reinforcing concepts presented in Music 2201. Student must be registered concurrently in Music 2201 and 2271. Prerequisite: Music 1108 with a grade of "C" or better or equivalent (3 lab hours)

MUSIC 2208

Aural Skills IV

1 credit hour

Continued study of eartraining and sightsinging. Includes the recognition of chromatic and 20th century melodic and harmonic techniques, and dictation of melodic, harmonic and rhythmic material reinforcing concepts presented in Music 2202. Student must be registered concurrently in Music 2202 and 2271. Prerequisite: Music 2207 with a grade of "C" or better or equivalent (3 lab hours)

MUSIC 2211

Recording Techniques I

3 credit hours

An introduction to studio recording techniques. Examines the history of electro-acoustic music as well as the basics of physical acoustics. The audio production console, microphones and effect processing are examined in detail.

Different methods of sound synthesis are explained with an emphasis on microcomputer applications and the MIDI (Musical Instrument Digital Interface) standard.

Recommended: Music 1100 or 1101 with a grade of "C" or better or equivalent (2 lecture hours, 3 lab hours)

MUSIC 2212

Recording Techniques II

3 credit hours

Theory and techniques of digital recording and editing with an overview of analog tape recording. Studio construction, synchronization methods, CD production and magneto-optical media are studied. Formats of digital storage are presented with an emphasis on surround sound and high definition audio. Prerequisite: Music 2211 with a grade of "C" or better or equivalent (3 lecture hours, 3 lab hours)

MUSIC 2271

Class Piano III

1 credit hour

Continued development of fundamental keyboard skills as well as basic reading and music theory fundamentals. Development of piano technique. Refinement of music reading, coordination of complex rhythms, playing skills and keyboard skills. Prerequisite: Music 1172 with a grade of "C" or better or consent of instructor (2 lab hours)

MUSIC 2272

Class Piano IV

1 credit hour

Continuation of Music 2271. The building of repertoire, sight-reading ability, accompaniment skills and facility with keyboard harmony. Prerequisite: Music 2271 or consent of instructor (2 lab hours)

MUSIC 2275

Introduction to Piano Pedagogy

2 credit hours

A study in the art of teaching piano, with emphasis given to the teaching of beginning and elementary level students. Examines theoretical and practical concepts related to the teaching of piano. Open to those who have no previous teaching experience, as well as those who may already be teaching piano. Prerequisite: At least two years previous piano study (2 lecture hours)

NURSING

NURSING 1100

Introduction to Health Care

3 credit hours

Concepts and principles related to health, health care delivery and nursing. Emphasis is placed on the communication process and the impact of culture, ethnicity and spirituality on health-seeking behaviors. Concepts of interdisciplinary health teams and theoretical foundation of beginning nursing skills are introduced. Strategies for success in the nursing program are introduced. Prerequisite: Admission to Associate Nursing Degree program or consent of instructor (3 lecture hours)

NURSING 1104

Introduction to Physical Assessment

1 credit hour

Theory and skills related to history taking, physical assessment and completing a head-to-toe assessment of the adult patient. Significant assessment differences in the pediatric patient are discussed. Prerequisites: Admission to ADN program, Nursing 1100, current CNA in Illinois, Anatomy and Physiology 1552 or 1572, and concurrent enrollment in Nursing 1105 (1 lecture hour)

NURSING 1105

Medical-Surgical I

7 credit hours

Principles of nursing practice, including major concepts, basic knowledge and nursing skills related to the care of patients are introduced. Pharmacology, pain control, nursing process, care of the surgical patient, and care of patients with alterations in: musculoskeletal system, skin integrity, fluid and electrolytes and shock states (hypovolemic and septic) are main foci. Lecture, discussion, college laboratories and clinical practice are used as learning experiences. Clinical experiences include acute and/or non-acute settings. Prerequisite: Admission to ADN program, Nursing 1100, current CNA in Illinois, Anatomy and Physiology 1552 or 1572, and concurrent enrollment in Nursing 1104 (4 lecture hours, 2 lab hours)

NURSING 1206

Medical-Surgical II

3 credit hours

Application of the nursing process in the care of patients with diabetes mellitus, gerontological, oncological, acid-base and male reproductive disorders. Lecture, discussion, laboratory and clinical practice are used as learning experiences. Clinical experiences include acute and/or non-acute settings. Prerequisites: Nursing 1104 and 1105, Psychology 2237 or concurrent enrollment (1 lecture hour, 1 lab hour, 4.5 clinical hours)

NURSING 1207

Childbearing Family

5 credit hours

Nursing care of the woman and family during the reproductive years. Focus on the childbearing process and wellness of the family in the childbearing years. Women's health and wellness are emphasized. Adverse outcomes of pregnancy are presented. Care of the well and hospitalized child and family are discussed. Clinical experiences include acute and ambulatory care settings, as well as community-based experiences. Prerequisites: Nursing 1104 and 1105, Psychology 2237 or concurrent enrollment (2.5 lecture hours, 1 lab hour, 6 clinical hours)

NURSING 1208

Neuropsychiatric Nursing

5 credit hours

Health assessment and enhancement of the mental health of individuals across the life span. Nursing management of the major psychiatric and neuropsychiatric disorders. Primary prevention, early intervention and treatment for alterations in thought, mood and behavior. Note the role of the professional nurse as partner in a multidisciplinary team. Describe medications and medical treatments and the

nurse's role. Lecture, discussion, laboratory and clinical practice are used as learning experiences. Clinical experiences include acute and community settings. Prerequisites: Nursing 1104 and 1105, Psychology 2237 or concurrent enrollment (2.5 lecture hours, 1 lab hour, 6 clinical hours)

NURSING 1305

Pharmacotherapeutics

2 credit hours

Concepts necessary for the pharmacological management of common health problems. Includes dosage calculations. Prerequisite: Nursing 1205 (2 lecture hours)

NURSING 1328

Physical Assessment of the Adult Client

2 credit hours

Theory and skills relevant to history taking and physical assessment of adult patients. Head-to-toe assessment of the adult and special populations are included. Prerequisite: Practicing RN or completion of Nursing 1205 or consent of instructor (0.5 lecture hour, 3 lab hours)

NURSING 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours, 0.5 to 1 lab hours)

NURSING 2100

Review of Basic Nursing Skills

0.5 credit hour

A laboratory course for ADN students that provides for the practice of nursing skills basic to the practice of nursing. Prerequisite: Nursing 1206 or equivalent, or consent of instructor (0.5 lab hour)

NURSING 2109

Medical-Surgical III

5 credit hours

Application of the nursing process in the care of clients of all age groups with cardiovascular, respiratory and endocrine disorders. Clinical experiences include acute and/or non-acute settings. Lecture, discussion and clinical practice are used as learning experiences. Prerequisites: Nursing 1206 and either Nursing 1207 or 1208, Microbiology 1420 and Foodservice Administration 1110 (2.5 lecture hours, 7.5 clinical hours)

NURSING 2110

Contemporary Issues in Nursing

2 credit hours

Current issues and trends in professional nursing are explored. Career opportunities for professional registered nurses are discussed. Components of professional nurse practice act are explored. Prerequisite: Nursing 1206 and 1207 or 1208 (2 lecture hours)

NURSING 2201

Medical-Surgical IV

10 credit hours

Application of the nursing process in the care of patients of all age groups with burns, gastrointestinal, hepatic, pancreatic, biliary, renal, hematological, immunological, neurological, and sensory (eye/ear) disorders. Integration of theory for the management of acute and chronic conditions, including concepts of emergency care, basic first aid, sexually transmitted diseases and domestic violence. Concepts of community nursing, including home care are introduced. Clinical experiences include acute and/or non-acute settings. Prerequisite: Nursing 2109 (5 lecture hours, 15 clinical hours)

NURSING 2202

Clinical Decision Making

1 credit hour

Cumulative integration of concepts learned throughout the nursing curriculum. Emphasis on analysis of critical thinking skills and synthesis of clinical decision making through evaluation of case studies and clinical simulations. Prerequisite: Nursing 2109 (1 lecture hour)

NURSING 2350

Nursing Update

7 credit hours

Intended for the registered nurse who has been inactive in nursing for a period of time or whose license has lapsed. Theoretical and clinical foundations of nursing practice. Nursing knowledge and skills are applied in acute and/or non-acute settings. Prerequisite: Eligibility for registered nurse licensure in Illinois (4 lecture hours, 9 clinical hours)

The AD Nursing program has special admission requirements and a separate application process in addition to that required by College of DuPage. Admission to the program is required to enroll in all Nursing courses at the 1100 level and above. Space in the AD nursing program is limited and the number of applications far exceeds the number of positions available. For information about the AD Nursing program, contact the Nursing office, or Ellen Davel, ADN program coordinator, at (630) 942-2158. For information about the Certified Nursing Assistant program, call the coordinator at (630) 942-2737. For information on continuing education for nurses, call (630) 942-2703. The associate's degree Nursing program is approved by the Illinois Department of Professional Regulations, 320 W. Washington St., 3rd floor, Springfield, IL 62786, (217) 785-0800.

For more information, call Lynn Engelmann (630) 942-2538.

OFFICE TECHNOLOGY INFORMATION

OFFICE TECHNOLOGY INFORMATION 1100 Introduction to Computer Keyboarding

2 credit hours

Beginning keyboarding course designed for the student with no prior or limited keyboarding experience. Includes word processing functions and basic formatting of documents. (2 lecture hours)

OFFICE TECHNOLOGY INFORMATION 1110

Document Formatting

4 credit hours

Develop speed and accuracy skills using a computer. Format and produce academic, business and personal documents using word processing software in mailable format. Knowledge of word processing is recommended. Completion of Office Technology Information 1100 with a grade of "C" or better or keyboarding speed of 25 words per minute recommended (4 lecture hours)

OFFICE TECHNOLOGY INFORMATION 1120 Speed Development Keyboarding

2 credit hours

Development of speed, accuracy and concentration in keyboarding using a computer keyboard and diagnostic software. May be taken two times for credit.

Recommended completion of Office Technology Information 1100 with a grade of "C" or better or 25 words per minute keyboarding speed (2 lecture hours)

OFFICE TECHNOLOGY INFORMATION 1130

Business Correspondence

3 credit hours

Basic instruction and practice in developing the vital employment skills of planning, writing and formatting effective business communication, including sentences, paragraphs, memos, letters, e-mail, and formal and informal reports. Includes current business spelling, punctuation and grammar skills. Keyboarding skills and word processing knowledge are recommended for successful completion of this course. (3 lecture hours)

OFFICE TECHNOLOGY INFORMATION 1200 MS Office for Professional Staff

3 credit hours

Introductory course in Microsoft Office utilizing the basic functions of Windows, Internet Explorer, Word, Excel, Access, PowerPoint and Outlook. Object linking between Word and Excel and PowerPoint. Designed for the office professional person or others wishing to learn and/or upgrade software skills. May not be substituted for Computer Information Systems 1205. Keyboarding skills recommended (3 lecture hours)

OFFICE TECHNOLOGY INFORMATION 1203 *E-mail and Electronic Communication*

2 credit hours

Introductory course using Microsoft Outlook emphasizing efficient use of e-mail, calendar, tasks and notes. Keyboarding skill and knowledge of Windows operating system are recommended. (2 lecture hours)

OFFICE TECHNOLOGY INFORMATION 1210 Word Processing I

3 credit hours

Word processing functions using a specific word processing software package, which may include insert, delete, cut, paste, find, replace, document formatting, margins, tabs, spell checker, thesaurus, grammar checker, pagination, page numbering, indent, printing, line spacing, justification, centering, view modes, multiple windows, footnotes, endnotes, headers, footers, disk maintenance, folders and document formats. Introduces merge, tables, borders, images and drawing objects. Keyboarding skills required for successful completion. (3 lecture hours)

OFFICE TECHNOLOGY INFORMATION 1215 Word Processing II

2 credit hours

Advanced word processing course for personal computers. Applications may include tables, charts, graphics, borders, Clip Art, drawing features, Webenhanced forms, fill-in forms, columns, outlines, paragraph numbering, styles, macros, sort, select, shared documents, table of contents and index. Prerequisite: Office Technology Information 1210 with a grade of "C" or better or equivalent (2 lecture hours)

OFFICE TECHNOLOGY INFORMATION 1218 MS Word Desktop Publishing

2 credit hours

Advanced word processing course designed to integrate the enhanced graphic features used in desktop publishing applications, including promotional documents, newsletters, brochures, booklets, proposals, manuals, reports and flyers. Prerequisite: Office Technology Information 1215 with a grade of "C" or better, or equivalent, or consent of instructor (2 lecture hours)

OFFICE TECHNOLOGY INFORMATION 1250 Electronic Presentations for Business Professionals 2 credit hours

Design, prepare and present effective business presentations utilizing current electronic presentation software and design techniques. Techniques for assessing a business presentation situation and delivering a successful electronic presentation. Keyboarding skills recommended for successful completion of this course. (2 lecture hours)

OFFICE TECHNOLOGY INFORMATION 1820 **Selected Topics in Office Technology Information**3 credit hours

Introductory discussion, review and analysis of a selected topic in Office Technology Information, which will be specified in the subtitle of the course as listed in the *Class Schedule*. Specifically designed to address topics that necessitate a broader scope, greater depth and fuller assimilation of the course materials. May be taken three times for credit if different topics are selected each time. (3 lecture hours)

OFFICE TECHNOLOGY INFORMATION 1824 **Selected Topics in Office Technology Information**2 credit hours

Introductory discussion, review and analysis of a selected topic in Office Technology Information, which will be specified in the subtitle of the course as listed in the *Class Schedule*. Specifically designed to address topics that necessitate a broader scope, greater depth and fuller assimilation of the course materials. May be taken three times for credit if different topics are selected each time. (2 lecture hours)

OFFICE TECHNOLOGY INFORMATION 1827 **Selected Topics in Office Technology Information**1 credit hour

Introductory discussion, review and analysis of a selected topic in Office Technology Information, which will be specified in the subtitle of the course as listed in the *Class Schedule*. Specifically designed to address topics that necessitate a broader scope, greater depth and fuller

assimilation of the course materials. May be taken three times for credit if different topics are selected each time. (1 lecture hour)

OFFICE TECHNOLOGY INFORMATION 1840 Independent Study – Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

OFFICE TECHNOLOGY INFORMATION 2305 Word Processing Transcription

3 credit hours

Development of transcription skills with word processing, emphasizing mailable copy through the refinement of grammar, punctuation, proofreading, spelling and word usage. Prerequisites: Office Technology Information 1110, 1130 and 1210 with a grade of "C" or better, or equivalents, or consent of instructor (3 lecture hours)

OFFICE TECHNOLOGY INFORMATION 2600 Professional Development

3 credit hours

Capstone course designed to develop "people skills" essential in the working environment. For students who have completed at least 60 percent of the credits required for a certificate or degree program. Topics include human relations, professional presence, team building, ethics, stress management, diversity and communication skills relating to individuals, organizations and client relations. Emphasis is placed on employment opportunities, including job search skills, advancement opportunities, networking and interviewing. Keyboarding skills recommended for successful completion of this course. (3 lecture hours)

OFFICE TECHNOLOGY INFORMATION 2605 Professional Office Procedures

4 credit hours

Capstone course designed with an emphasis on the professional role of the office support staff. Focus is on technological advances, decision-making and problem-solving skills. Trends in electronic mail, calendaring and scheduling are presented. Includes collecting and presenting data, utilizing software applications, maintaining financial records, developing telephone techniques, arranging travel plans, organizing conferences, performing electronic file management, applying records management methods, managing long documents, and performing legal and medical office procedures. Prerequisites: Office Technology Information 1110, 1130 and 1200 with a grade of "C" or better, or equivalent, or consent of instructor (4 lecture hours)

For additional information, call Wendy Felder, program coordinator, at (630) 942-2577, or the Business and Technology division at (630) 942-2592.

PARALEGAL STUDIES

PARALEGAL STUDIES 1100 Introduction to Paralegal Studies

3 credit hours

Designed to give students a basic understanding of the various functions of the paralegal/legal assistant's role in the American legal system. Builds a foundation of basic knowledge and skills necessary for someone seeking a career in the paralegal/legal assistant field. Prerequisite: English 1101 with a grade of "C" or better or equivalent or a score in the writing placement test to place into English 1101 or consent of instructor (3 lecture hours)

PARALEGAL STUDIES 1150

Drafting Legal Documents

3 credit hours

Introduction to purposes and uses of various legal document drafting formats. Focus is on creation of basic legal documents that meet professional standards. (3 lecture hours)

PARALEGAL STUDIES 1200

Civil Litigation

3 credit hours

Designed to give paralegal students an understanding of the litigation process commencing from the initial fact-gathering stage through post-judgment proceedings. Builds a foundation of the procedural rules governing litigation as well as practice in comprehending and drafting litigation documents. Equal emphasis will be placed on practical application and theoretical knowledge. Prerequisite: Paralegal Studies 1100 with a grade of "C" or better or equivalent (3 lecture hours)

PARALEGAL STUDIES 1250

Legal Ethics and Law Office Organizations

3 credit hours

Covers the rules of legal ethics and the regulation of the legal profession. Law office organization and management are discussed. Hands-on exercises using law office technology are also included. Prerequisite: Paralegal studies 1100 with a grade of C or better (3 lecture hours)

PARALEGAL STUDIES 1500

Intro to Legal Research and Writing

3 credit hours

Instruction in the basic techniques and skills necessary to conduct legal research and to summarize the results of that research in appropriate written form. Students learn to use legal research tools (both online and print) and develop legal reasoning skills to craft written documents such as legal correspondence, legal memoranda and legal briefs. Practical skills are developed through sequential written assignments that build analytical, research and writing skills throughout the semester. Prerequisite: Paralegal Studies 1100 with a grade of "C" or better, or equivalent, or consent of instructor (3 lecture hours)

PARALEGAL STUDIES 2100

Advanced Legal Research and Writing

3 credit hours

Advanced techniques and skills in legal research and legal writing. Focus on analytical skills in the examination of case law and precedent to prepare a trial court

memorandum of law and portions of an appellate court brief. Prerequisite: Paralegal Studies 1500 with a grade of "C" or better or equivalent (3 lecture hours)

PARALEGAL STUDIES 2200

Criminal Law and Procedure

3 credit hours

Overview of criminal law and court procedures, including criminal investigations, witness interviews, pre-trial procedures, drafting court documents, trial preparation and trial assistance. Prerequisite: Paralegal Studies 1100 or equivalent, or consent of instructor (3 lecture hours)

PARALEGAL STUDIES 2250

Corporations and Other Business Organizations

3 credit hours

Law of corporations and other business organizations. Includes the laws and business practices involved in sole proprietorships, general and limited partnerships, limited liability partnerships, and limited liability companies, and the legal forms that are commonly used in this practice area. Prerequisite: Paralegal Studies 1100 or equivalent, or consent of instructor (3 lecture hours)

PARALEGAL STUDIES 2300

Estate Planning and Probate Law

3 credit hours

Overview of the laws of wills, trusts and estates, and the role of the paralegal in estate planning and administration. Prerequisite: Paralegal Studies 1100 or equivalent, or consent of instructor (3 lecture hours)

PARALEGAL STUDIES 2350

Family Law

3 credit hours

Overview of the basic concepts of family law, covering marriage, divorce, property division, spousal support, child custody, visitation and support, tax consequences of separation, and divorce. Focus on preparation of related necessary court documents. Prerequisite: Paralegal Studies 1100 or equivalent, or consent of instructor (3 lecture hours)

PARALEGAL STUDIES 2400

Intellectual Property Law

3 credit hours

Overview of intellectual property law. Introduces concepts of ownership of intellectual property. Includes patents, copyrights, trademarks and trade secrets, and how to prepare applications for protection of these rights.

Prerequisite: Paralegal Studies 1100 or equivalent, or consent of instructor (3 lecture hours)

PARALEGAL STUDIES 2450

Real Property Law

3 credit hours

Focus on principles of residential and commercial real property law. Includes information concerning recording of documents, title protection, legal descriptions, deeds, leases, mortgages and closing papers. Prerequisite: Paralegal Studies 1100 or equivalent, or consent of instructor (3 lecture hours)

PARALEGAL STUDIES 2500

Tort and Insurance Law

3 credit hours

Focuses on basic elements of tort and insurance law. Includes intent, negligence and liability without fault, as well as issues in malpractice and products liability and related insurance issues. Prerequisite: Paralegal Studies 1100 or equivalent, or consent of instructor (3 lecture hours)

PARALEGAL STUDIES 2550

Paralegal Practicum

3 credit hours

Capstone course integrating the application of all course work in the paralegal program. Students work in a law office under the supervision of an attorney and faculty adviser. Required seminars provide a forum for discussing issues related to working in the paralegal field, guidance in searching for jobs, and instruction about how to create a professional portfolio. Prerequisites: Paralegal Studies 1200 or equivalent and Paralegal Studies 1500 or equivalent and consent of instructor. Students must have been accepted into the program pursuant to the program admission requirements or obtain written consent of the instructor before enrolling in class (2 lecture hours, 2 lab hours)

For additional information regarding Paralegal Studies, call Sally N. Fairbank, (630) 942-2955.

PHILOSOPHY

PHILOSOPHY 1100 (IAI H4 900)

Introduction to Philosophy

3 credit hours

Introduces the student, through the study of knowledge, reality and human conduct, to the discipline that inquires into human nature and the world. Designed to increase the student's self-awareness and ability to think. (3 lecture hours)

PHILOSOPHY 1110 (IAI H4 904)

Ethics

3 credit hours

Study of the elements of ethics, including principle ethical theories, principles, concepts and meanings, and their practical application to moral problems, dilemmas and decisions in a global context. (3 lecture hours)

PHILOSOPHY 1112

Biomedical Ethics

3 credit hours

Study of the theories and principles of ethics as applied to the major areas of biomedical ethical concern: moral problems in the professional/patient relationship, in life and death, in allocation of scarce medical resources, and in medical and health care on a social scale. Current issues such as abortion, euthanasia and genetic research are considered. (3 lecture hours)

PHILOSOPHY 1114

Business Ethics

3 credit hours

A study of moral issues in business and the broader issues of economic justice through a study of ethical theories and principles and their application to actual case studies. (3 lecture hours)

PHILOSOPHY 1116 (IAI H4 904)

Environmental Ethics

3 credit hours

Study of the theories and principles of ethics as applied to major areas of environmental and ecological concern: pollution, land use, animal rights, population, consumption and waste disposal. Experience in non-remedial, collegelevel mathematics is strongly recommended. (3 lecture hours)

PHILOSOPHY 1117 (IAI H4 904)

Ancient Philosophy

3 credit hours

Surveys philosophy as it developed from the classical period in Greece to the early advocates of the scientific method in the West, examining major philosophical figures in their historical contexts with an attention to how philosophy developed in response to historical, social and political events. (3 lecture hours)

PHILOSOPHY 1118 (IAI H4 902)

Modern Philosophy

3 credit hours

Surveys philosophy as it developed from the modern period to the current era, examining major philosophical figures in their historical contexts with an attention to how philosophy developed in response to historical, social and political events. (3 lecture hours)

PHILOSOPHY 1120 (IAI H4 906)

Logic

3 credit hours

Introduces the student to the art and science of reasoning. Skills developed include analyzing formal and informal reasoning; identifying errors in reasoning and learning to avoid them; distinguishing different species of reasoning, including deductive and inductive styles of argumentation; and analyzing language for both logical and rhetorical force. Experience in non-remedial, college-level mathematics is strongly recommended. (3 lecture hours)

PHILOSOPHY 1125 (IAI H4 906)

Critical Thinking

3 credit hours

An investigation into and application of the principles of effective thinking in order to develop and enhance one's ability to consciously direct focused mental activity to solve problems, achieve desired goals, evaluate beliefs and guide actions. (3 lecture hours)

PHILOSOPHY 1130

Social and Political Philosophy

3 credit hours

Philosophical inquiry into the basis of social and political authority and practices, as well as the proper relationships among individuals, society and government. The nature of society, the state, rights, law and justice are considered with reference to contemporary social and political issues. Philosophy 1100 is strongly recommended. (3 lecture hours)

PHILOSOPHY 1145 (IAI H4 905)

Philosophy of Religion

3 credit hours

Introduces the student to the philosophical analysis and examination of basic religious concepts and beliefs, such

as the nature of Ultimate Reality (e.g., God, Tao) and arguments for the existence of the Ultimate Reality. Other topics include religious experience, reason and faith, religion and morality, immortality and others. (3 lecture hours)

PHILOSOPHY 1150 (IAI H5 904N)

World Religions

3 credit hours

An introductory investigation of the main ideas from the world's major living religions, including Christianity, Islam, Hinduism, Buddhism, Taoism, Confucianism, Shintoism and primal religions. Credit cannot be given for both Philosophy 1150 and Religious Studies 1150. (3 lecture hours)

PHILOSOPHY 1160

History and Philosophy of Education

3 credit hours

Study of the development of Western educational philosophy in the historical context. Surveys significant philosophical theories and their influence on modern education. (3 lecture hours)

PHILOSOPHY 1800

Experiential Special Topics

1 to 3 credit hours

Experiential courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent (to be determined by the disciplines). This experiential component may include field studies, interdisciplinary learning, and/or practical application of discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.)

PHILOSOPHY 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

PHILOSOPHY 2200

Introduction to Philosophy of Science

3 credit hours

Introduces the foundations of scientific theory and methodology approached by means of philosophical analysis of the fundamental concepts in science, such as cause, prediction, function, motion, event, inductive generalization, statistical probability and the space/time continuum. (3 lecture hours)

PHILOSOPHY 2250

Introduction to Philosophy of Art

3 credit hours

Surveys philosophical theories of the creative process in art. Emphasis is placed on form, significance, emotion, reality, association and chance in the realm of aesthetic judgment and criticism. (3 lecture hours)

PHILOSOPHY 2800

Advanced Experiential Special Topics

1 to 3 credit hours

Advanced experiential courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline, while building upon academic knowledge and skills acquired in introductorylevel classes. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent (to be determined by the disciplines). This experiential component may include field studies. interdisciplinary learning, and/or the practical application of more complex discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.) Prerequisite: At least one course in the discipline or consent of the instructor

PHOTOGRAPHY

PHOTOGRAPHY 1100

Fundamentals of Photography

3 credit hours

An exploration of the fundamental principles, techniques and application of camera-based image making. (3 lecture hours)

PHOTOGRAPHY 1101

Foundations of Digital Photography

3 credit hours

Explores the techniques and applications of acquiring, manipulating and outputting digitized photographic images utilizing Adobe Photoshop. Prerequisite: Photography 1100 or equivalent, or concurrent enrollment in Photography 1100, or consent of instructor (6 lab hours)

PHOTOGRAPHY 1102

Foundations of Film Photography

3 credit hours

Explores the techniques and applications for developing and projection printing of film camera images in the chemical darkroom. (6 lab hours)

PHOTOGRAPHY 1105

History of Photography

3 credit hours

A visually oriented history of the development of photography in both its commercial and creative aspects. (3 lecture hours)

PHOTOGRAPHY 1170

Underwater Photography

3 credit hours

Introduction to the theories and practices of underwater photography. (6 lab hours)

PHOTOGRAPHY 1200

Intermediate Photography

3 credit hours

An exploration of various expressive devices contributing to aesthetic interpretation of a photograph. Emphasis is on the development of the student's self-expression. Prerequisite: Photography 1101 or equivalent (3 lecture hours)

PHOTOGRAPHY 1201

Tools and Techniques for Digital Photography

3 credit hours

Technical skills for digital photography are covered, including refinement of exposure, post-image capture processing and manipulation. Issues addressing controlled output of digital images are also covered. Prerequisite: Photography 1200 or equivalent, or concurrent enrollment in Photography 1200, or consent of instructor (6 lab hours)

PHOTOGRAPHY 1202

Tools and Techniques for Film Photography

3 credit hours

Technical skills for film photography are covered, including refinement of exposure, development and printing of black-and-white images. Criteria for selection of appropriate equipment and materials are also covered. Prerequisite: Photography 1102 or equivalent, and prior or concurrent enrollment in Photography 1200 (6 lab hours)

PHOTOGRAPHY 1250

Advanced Digital Imaging

3 credit hours

An advanced seminar in digital image-making concepts and techniques, allowing in-depth exploration of extended computer-based photo projects. Prerequisite: Photography 1201 or equivalent (6 lab hours)

PHOTOGRAPHY 1260

Alternative Photographic Processes

3 credit hours

Designed to meet the needs of the creative photographer. Allows experimentation with a variety of camera and darkroom options for producing photographic images. Prerequisite: Photography 1102 with a grade of "C" or better, or equivalent (6 lab hours)

PHOTOGRAPHY 1300

Studio Photography I

3 credit hours

Introduction to making photographs in the studio. Techniques of using light as a creative tool are explored by using tungsten light and electronic flash. Prerequisites: Photography 1101 and 1102 or equivalents (6 lab hours)

PHOTOGRAPHY 1400

Color Photography I

3 credit hours

An introduction to color photographic theory and aesthetics emphasizing the use of transparency and negative film materials. Color applications for digital photography are also addressed. Prerequisite: Photography 1101 or equivalent (6 lab hours)

PHOTOGRAPHY 1450

Nature Photography

3 credit hours

Introduces specialized techniques for photographing the natural environment. Emphasizes application of techniques in field situations. Prerequisite: Photography 1400 or equivalent (6 lab hours)

PHOTOGRAPHY 1500

Photoiournalism

3 credit hours

The application of camera, lenses, film and digital media in the production of newsworthy photographs suitable for publication in newspapers, magazines and other visual communications media. Prerequisite: Photography 1201 or equivalent, or consent of instructor (6 lab hours)

PHOTOGRAPHY 1820

Selected Topics I

1 credit hour

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college Class Schedule. May be taken three times for credit as long as different topics are selected. Prerequisites: Photography 1100, 1101 and 1102 or equivalents, or consent of instructor (2 lab hours)

PHOTOGRAPHY 1821

Selected Topics II

2 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college Class Schedule. May be taken three times for credit as long as different topics are selected. Prerequisites: Photography 1100, 1101 and 1102 or equivalents, or consent of instructor (4 lab hours)

PHOTOGRAPHY 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: 32 semester credits in Photography and consent of instructor (1 to 4 lecture hours)

PHOTOGRAPHY 2100

Extended Photographic Project

3 credit hours

A continued exploration of photography as a creative medium, allowing the student time to pursue individual and/or commercial photographic interests while stressing critical thinking skills. Prerequisites: Photography 1201, 1202 and 1400 or equivalent, or consent of instructor (6 lab hours)

PHOTOGRAPHY 2200

Portrait Photography

3 credit hours

Explores all genres of portrait photography, including commercial portraits, formal and informal studio portraits, and environmental portraiture with film and digital media. Prerequisites: Photography 1201 or 1202 and 1300 or equivalent (6 lab hours)

PHOTOGRAPHY 2300

Studio Photography II

3 credit hours

Advanced concepts for solving complex visual communication problems in the studio. Emphasis is on the aesthetic aspects of creating studio photographs. Prerequisites: Photography 1300, 1400 and 1201 or 1202, or equivalent (6 lab hours)

PHOTOGRAPHY 2350

Studio Photography III

3 credit hours

Advanced concepts in studio photography with an emphasis on creative solutions to complex photographic problems. Prerequisite: Photography 2300 or equivalent (6 lab hours)

PHOTOGRAPHY 2375

Studio Digital Capture

3 credit hours

Advanced concepts in studio photography using digital camera and digital imaging techniques with an emphasis on creative solutions. Prerequisite: Photography 2300 with a grade of "A" or better or equivalent (6 lab hours)

PHOTOGRAPHY 2400

Color Photography II

3 credit hours

Advanced concepts in color photographic theory and aesthetics using transparency film, negative film and/or digital materials. Prerequisites: Photography 1201 and 1400 or equivalent (6 lab hours)

PHOTOGRAPHY 2700

Professional Photographic Practices

3 credit hours

Capstone photography course that provides basic information for conducting business, with emphasis on the financial, legal, organizational, promotional, interpersonal and ethical strategies specific to the practice of photography as an occupation or a fine art. Development and creation of marketing materials and plans are also covered. Prerequisite: Student must have completed 20 semester hours of photography course credit or equivalent prior to taking this course (2 lecture hours, 2 lab hours)

PHOTOGRAPHY 2750

Portfolio Presentation

3 credit hours

Preparation and presentation of work in portfolio form as required by most employers, galleries and transfer schools. Each student assembles a portfolio of images appropriate to their professional, educational or personal goals. Prerequisite: Minimum of 33 semester credits in Photography (6 lab hours)

For additional information, call Jeff Curto, (630) 942-2527, or Glenn Hansen, (630) 942-3380.

PHYSICAL EDUCATION

PHYSICAL EDUCATION 1101

Aerobic Fitness Lab I

1 credit hour

Aerobic training and strength training are emphasized in a personally designed fitness program that uses target heart rate and training zone techniques. Weight machines and cardiovascular machines are used in an activity program designed to develop three important results of physical fitness: strength, flexibility and endurance. (2 lab hours)

PHYSICAL EDUCATION 1102

Aerobic Fitness Lab II

1 credit hour

Aerobic training and strength training are emphasized in a personally designed fitness program that uses target heart rate and training zone techniques. Weight machines and cardiovascular machines are used in an activity program designed to develop three important results of physical fitness: strength, flexibility and endurance. Prerequisite: Physical Education 1101 (2 lab hours)

PHYSICAL EDUCATION 1103

Aerobic Fitness Lab III

1 credit hour

Aerobic training and strength training are emphasized in a personally designed fitness program that uses target heart rate and training zone techniques. Weight machines and cardiovascular machines are used in an activity program designed to develop three important results of physical fitness: strength, flexibility and endurance. Prerequisite: Physical Education 1102 (2 lab hours)

PHYSICAL EDUCATION 1104

Aerobic Fitness Lab IV

1 credit hour

Aerobic training and strength training are emphasized in a personally designed fitness program that uses target heart rate and training zone techniques. Weight machines and cardiovascular machines are used in an activity program designed to develop three important results of physical fitness: strength, flexibility and endurance. Prerequisite: Physical Education 1103 (2 lab hours)

PHYSICAL EDUCATION 1106

Aerobics I

1 credit hour

Aerobic fitness choreographed to music. Performance of basic exercise movements, patterns and dance steps to improve cardiovascular endurance, muscular endurance, muscle tone, flexibility and rhythmic coordination. (2 lab hours)

PHYSICAL EDUCATION 1107

Aerobics II

1 credit hour

A continuation of Aerobics I. Further improvement in cardiovascular endurance, muscular endurance, muscle tone, flexibility and rhythmic coordination. Increasing intensity of workouts and improving performance are main goals. Prerequisite: Physical Education 1106 or equivalent experience (2 lab hours)

Bench Step Aerobics I

1 credit hour

A high-intensity, low-impact exercise program that involves stepping up and down a step platform while simultaneously performing upper body strength training movements to the accompaniment of music. (2 lab hours)

PHYSICAL EDUCATION 1112

Bench Step Aerobics II

1 credit hour

A continuation of Bench Step Aerobics I. Involves stepping up and down a step platform while simultaneously performing upper body strength training movements. Higher-intensity bench step moves and combinations are taught. Prerequisite: Physical Education 1111 or equivalent experience (2 lab hours)

PHYSICAL EDUCATION 1113

Power Step Aerobics

1 credit hour

A high-intensity, low-impact exercise program designed for the advanced step participant. Designed to further challenge the cardiovascular and muscle endurance systems with a variety of high-intensity propulsion movements, combined with basic and advanced step movement combinations. Prerequisite: Physical Education 1112 or equivalent, or bench step experience (2 lab hours)

PHYSICAL EDUCATION 1115

Wheelchair Aerobics

1 credit hour

Exercise class designed for those with limited mobility or confined to wheelchairs. (2 lab hours)

PHYSICAL EDUCATION 1123

Boot Camp Fitness I

1 credit hour

A total body conditioning class with a "back to basics" non-choreographed approach. Traditional calisthenics and exercises, current training techniques and drills are used to improve all components of fitness. (2 lab hours)

PHYSICAL EDUCATION 1124

Boot Camp Fitness II

1 credit hour

A continuation of Boot Camp Fitness I. Fitness workouts with a "back to basics" approach. Higher intensity exercises and workouts. Prerequisite: Physical Education 1123 with a grade of "S" or better or equivalent (2 lab hours)

PHYSICAL EDUCATION 1125

BOSU Training I

1 credit hour

A total body conditioning class that utilizes the BOSU training device to improve all components of fitness. (2 lab hours)

PHYSICAL EDUCATION 1126

BOSU Training II

1 credit hour

A continuation of BOSU Training I. Workouts designed to further improve fitness levels. Prerequisite: Physical Education 1125 with a grade of "S" or better, or equivalent, or consent of instructor (2 lab hours)

PHYSICAL EDUCATION 1131

Cardio Kickboxing I

1 credit hour

An exercise course that combines boxing, kickboxing, martial arts, aerobics and physical conditioning exercises to enhance cardiovascular and muscular endurance. All done to music. (2 lab hours)

PHYSICAL EDUCATION 1132

Cardio Kickboxing II

1 credit hour

An intermediate cardiovascular endurance activity that combines boxing, kickboxing, martial arts, aerobics and physical conditioning exercises to further increase skill and endurance. Prerequisite: Physical Education 1131 or equivalent experience (2 lab hours)

PHYSICAL EDUCATION 1135

Cardio Mixer I

0.5 credit hours

A challenging aerobic workout is provided using a mix of cardio training methods such as kickboxing, step and basic aerobic dance moves. (1 lab hour)

PHYSICAL EDUCATION 1136

Cardio Mixer II

0.5 credit hours

A continuation of Cardio Mixer I. Prerequisite: Physical Education 1135 with a grade of "S" or better or equivalent (1 lab hour)

PHYSICAL EDUCATION 1141

Cross Training I

1 credit hour

A personal fitness program that aims to develop cardiovascular endurance, muscle strength, flexibility and skills using the following facilities: (1) the Aerobic Fitness Lab, (2) the Al Zamsky Natatorium, and (3) the Strength Complex. Target heart rate and training zone techniques are emphasized. (2 lab hours)

PHYSICAL EDUCATION 1142

Cross Training II

1 credit hour

A personal fitness program that aims to develop cardiovascular endurance, muscle strength, flexibility and skills using the following facilities: (1) the Aerobic Fitness Lab, (2) the Al Zamsky Natatorium, and (3) the Strength Complex. Target heart rate and training zone techniques are emphasized. Prerequisite: Physical Education 1141 or consent of instructor (2 lab hours)

PHYSICAL EDUCATION 1143

Aerobic Fitness Combo I

1 credit hour

An aerobic conditioning course that combines methods and styles of a variety of fitness courses. May include bench step, calisthenics, aerobic dance, cardio kickboxing, circuit training, body sculpting and walking/jogging. (2 lab hours)

Aerobic Fitness Combo II

1 credit hour

A continuation of Aerobic Fitness Combo I. Methods and styles of a variety of fitness classes with emphasis on a high intensity workout. Prerequisite: Physical Education 1143 with a grade of "S" or better or equivalent (2 lab hours)

PHYSICAL EDUCATION 1151

Fitness Walking I

1 credit hour

Fitness walking, power walking and cross country walking techniques. Students assess personal fitness levels and work to improve cardiovascular fitness and set personal goals. (2 lab hours)

PHYSICAL EDUCATION 1152

Fitness Walking II

1 credit hour

A continuation of Fitness Walking I. Improvement of cardiovascular fitness through increased intensity and/or distance. Prerequisite: Physical Education 1151 or equivalent experience (2 lab hours)

PHYSICAL EDUCATION 1153

Jogging I

1 credit hour

A graduated program of jogging and running geared to each individual's fitness level and goals. Various jogging techniques, practices and safety procedures. (2 lab hours)

PHYSICAL EDUCATION 1154

Jogging II

1 credit hour

A continuation of Jogging I. A graduated program of running geared to each individual's fitness level and goals. Further improvement or maintenance of cardiovascular fitness is a main goal. Prerequisite: Physical Education 1153 or equivalent experience (2 lab hours)

PHYSICAL EDUCATION 1161

Physical Fitness I

1 credit hour

A personal fitness program that includes progressive conditioning methods. Training exercises include: stretching, core training, jogging, sprinting, weight lifting and weight training. Also included: calisthenics, isometric and isotonic exercises, plyometrics, footwork agility drills and sport specific exercises. Prerequisite: Consent of instructor (2 lab hours)

PHYSICAL EDUCATION 1162

Physical Fitness II

1 credit hour

An advanced personal fitness program that includes progressive conditioning methods. Training exercises include: stretching, core training, jogging, sprinting, weight lifting and weight training. Also included: calisthenics, isometric and isotonic exercises, plyometrics, footwork agility drills and sport specific exercises. Prerequisite: Physical Education 1161 or consent of instructor (2 lab hours)

PHYSICAL EDUCATION 1171

Weight Training I

1 credit hour

An introduction to weight training. Application of the fundamentals of strength training through the use of machine and free weights. Basic anatomy and physiology associated with weight training and safe lifting procedures. (2 lab hours)

PHYSICAL EDUCATION 1172

Weight Training II

1 credit hour

Fundamentals of an advanced weight training program. Application of strength training using weight machines and free weights. Anatomy and physiology associated with weight training and safe lifting procedures, along with the design of an individualized strength training program. Prerequisite: Physical Education 1171 or previous weight lifting experience (2 lab hours)

PHYSICAL EDUCATION 1181

Spinning I

1 credit hour

A 50-minute fitness class using "spinning" (stationary) bicycles. Cardiovascular endurance (aerobic and anaerobic) and muscular strength and endurance are developed. Music is used as a tool to motivate and inspire, as well as establish the pace, rhythm and energy level of the class. (2 lab hours)

PHYSICAL EDUCATION 1182

Spinning II

1 credit hour

A 50-minute fitness class using "spinning" (stationary) bicycles. Advanced spinning techniques are implemented to further improve fitness level. Aerobic and anaerobic training are used. Music is used to motivate and inspire, as well as to establish the pace, rhythm and energy level of the class. Prerequisite: Physical Education 1181 or previous cycling experience (2 lab hours)

PHYSICAL EDUCATION 1183

Step/Slide/Sculpt

1 credit hour

Utilizing cross-training principles with the guidance of an instructor, this conditioning program uses the bench step, slide, high-low aerobics moves, resistance tubing and hand weights to improve overall fitness. Achieving improved muscular strength, endurance, cardiovascular endurance and body composition with a variety of exercise formats are the main goals. (2 lab hours)

PHYSICAL EDUCATION 1184

Body Sculpting I

1 credit hour

A toning and conditioning course that utilizes a variety of resistance tools to firm and strengthen the entire body. (2 lab hours)

PHYSICAL EDUCATION 1185

Body Sculpting II

1 credit hour

A continuation of Body Sculpting I. Workouts designed to further improve muscle endurance and tone. Prerequisite: Physical Education 1184 or equivalent, with a grade of "S," or equivalent experience (2 lab hours)

SAQSP Training

1 credit hour

Physical conditioning theories and drills for improvement in speed, agility, quickness, strength and power (SAQSP). Applications to individual and team sports, plyometrics and other high intensity fitness activities are covered. (2 lab hours)

PHYSICAL EDUCATION 1191

Power Lifting I

1 credit hour

An introductory course in power lifting and training. Basic mechanics of major lifting techniques in the overall Olympic lifts. Prerequisite: Physical Education 1171 or previous weight lifting experience (2 lab hours)

PHYSICAL EDUCATION 1192

Power Lifting II

1 credit hour

A continuation of Power Lifting I. The course advances and builds on the techniques and intensity of the work performed in power lifting. Prerequisite: Physical Education 1191 or previous power lifting skills (2 lab hours)

PHYSICAL EDUCATION 1300

Baseball

1 credit hour

An introduction to the development of proper baseball fundamental skills, techniques and strategies. (2 lab hours)

PHYSICAL EDUCATION 1301

Basketball I

1 credit hour

Beginning basketball emphasizing offensive and defensive fundamentals through team play. The following offensive fundamental skills are included: shooting, passing, ball handling, dribbling and player spacing. The following defensive fundamental skills are also included: body position, footwork, arm movements and court position. Team play is emphasized. (2 lab hours)

PHYSICAL EDUCATION 1302

Basketball II

1 credit hour

Intermediate basketball emphasizing offensive and defensive fundamentals through team play. Offensive skills included are: jump shooting, movement passing, dribbling with both hands and ball handling with faking. Defensive skills included are: body position, advanced footwork, advanced arm movements and court awareness. Team play concepts and strategies are introduced. Prerequisite: Physical Education 1301 or equivalent (2 lab hours)

PHYSICAL EDUCATION 1311

Golf I

1 credit hour

Beginning golf. Topics include: grips, stances, chips, putts, full swings, sand shots and club selection. Irons and woods are both used to develop the rhythm and timing of the swing. Also included are terminology, etiquette, scoring, pace of play and golf safety. (2 lab hours)

PHYSICAL EDUCATION 1312

Golf II

1 credit hour

Intermediate golf. Progressive development in the fundamental grips, stances and strokes using irons and woods. Swing thoughts, ball flight laws, principles of contact and course management are emphasized. Prerequisite: Physical Education 1311 (2 lab hours)

PHYSICAL EDUCATION 1313

Golf III

1 credit hour

The mental aspects of golf are emphasized. Topics include methods to better golf, various thought processes, statistical analysis and time management. Prerequisite: Physical Education 1312 or consent of instructor (2 lab hours)

PHYSICAL EDUCATION 1321

Pickleball I

1 credit hour

Introduction to the skills and practice of pickleball. Serving, forehand drives, volleys, strategies, rules and scoring. (2 lab hours)

PHYSICAL EDUCATION 1322

Pickleball II

1 credit hour

Advanced skills, knowledge and strategies of pickleball. Emphasis on volleying, lobbing, net control, and advanced singles and doubles strategies. Prerequisite: Physical Education 1321 or equivalent skill (2 lab hours)

PHYSICAL EDUCATION 1331

Racquetball I

1 credit hour

Fundamentals of racquetball with emphasis on basic strokes, serves and the rules of the game. (2 lab hours)

PHYSICAL EDUCATION 1332

Racquetball II

1 credit hour

Competitive racquetball with emphasis on advanced skills, strategies and tournament play. Prerequisite: Physical Education 1331 (2 lab hours)

PHYSICAL EDUCATION 1341

Soccer I

1 credit hour

Introduction to the fundamental skills and techniques of kicking, heading, passing and trapping. Team play, strategy and review of the rules. (2 lab hours)

PHYSICAL EDUCATION 1342

Soccer II

1 credit hour

A continuation of Soccer I. Soccer II is designed for students with skill and knowledge of the sport. Emphasis placed on intermediate skills, strategies and team play. Prerequisite: Physical Education 1341 or equivalent, or consent of instructor (2 lab hours)

Softball

1 credit hour

Fundamentals of softball: history, rules, strategy, basic skills of fielding, throwing, batting, pitching, base running, and team offensive and defensive philosophies. (2 lab hours)

PHYSICAL EDUCATION 1361

Tennis I

1 credit hour

Beginning tennis. Topics covered include grips, stances, hitting positions, racquet-face control, forehand, backhand, serve and serve return. Basic tennis rules, scoring and etiquette are also emphasized. (2 lab hours)

PHYSICAL EDUCATION 1362

Tennis II

1 credit hour

Intermediate tennis. Topics covered include forehand, backhand, serve, serve return, volley, overhead shots, approach shots and dump volley skills. Instruction in singles and doubles is strategy-based and emphasizes high-percentage shot-making. Rules, etiquette and doubles communication are also included. Prerequisite: Physical Education 1361 (2 lab hours)

PHYSICAL EDUCATION 1370

Track and Field

1 credit hour

Overview of basic techniques used in track and field events. Training principles and methodology for competitive track and field. (2 lab hours)

PHYSICAL EDUCATION 1381

Volleyball I

1 credit hour

Introduction to the basic rules, skills, techniques and strategies of volleyball and their application to game play. Team play and intersquad competition. (2 lab hours)

PHYSICAL EDUCATION 1382

Volleyball II

1 credit hour

Advanced skills, techniques and strategies of volleyball and their application to competitive game play. Designed for players with advanced skill and knowledge. Emphasis on team strategies and intersquad competition.

Prerequisite: Physical Education 1381 or previous competitive volleyball skill (2 lab hours)

PHYSICAL EDUCATION 1400

Aqua Step

1 credit hour

Introduction to water fitness using bench stepping techniques for cardiovascular and muscle conditioning. (2 lab hours)

PHYSICAL EDUCATION 1401

Swimming I

1 credit hour

Beginning and advanced beginning swimming skills (based on American Red Cross). Water acclimation, floats, glides, kicks, front crawl, combined back stroke, breath control, rhythmic breathing, elementary back stroke, deep water comfort and safety skills. (2 lab hours)

PHYSICAL EDUCATION 1402

Swimming II

1 credit hour

A continuation of Swimming I. Further refinement of front crawl and elementary back stroke. Intermediate and advanced swimming strokes and skills: turns, back stroke, breast stroke, side stroke, butterfly and lap swimming for fitness. Prerequisite: Physical Education 1401 or equivalent skill (2 lab hours)

PHYSICAL EDUCATION 1411

Swim Fitness I

1 credit hour

An introductory lap swimming conditioning course emphasizing cardiovascular and muscular endurance. Various types of swimming training methods and techniques. Prerequisite: Swimming skills at intermediate level or permission of instructor (2 lab hours)

PHYSICAL EDUCATION 1412

Swim Fitness II

1 credit hour

A continuation of Swim Fitness I. This conditioning course further emphasizes cardiovascular and muscular endurance. Various types of swimming skills, techniques and training methods. Prerequisite: Physical Education 1411 or equivalent experience (2 lab hours)

PHYSICAL EDUCATION 1420

Deep Water Fitness

1 credit hour

Introduction to low impact deep water aerobic conditioning, emphasizing cardiovascular fitness, strength, flexibility and endurance conditioning. This form of exercise uses the natural buoyancy of the body in the water, allowing for a decrease in the stress and strain on muscles, joints and ligaments. (2 lab hours)

PHYSICAL EDUCATION 1421

Water Aerobics I

1 credit hour

Introduction to low impact aquatic aerobic conditioning, emphasizing cardiovascular fitness, strength, flexibility and endurance conditioning. (2 lab hours)

PHYSICAL EDUCATION 1422

Water Aerobics II

1 credit hour

A continuation of Water Aerobics I. A variety of aquatic exercises to further develop strength, flexibility and cardiovascular fitness in the water. Prerequisite: Physical Education 1421 or equivalent (2 lab hours)

PHYSICAL EDUCATION 1425

Aquasize I

0.5 credit hours

A water aerobic workout that improves cardiovascular and endurance in a challenging yet low-impact style. Swimming ability is not needed. Bench step and muscle toning exercises are included. (1 lab hour)

PHYSICAL EDUCATION 1426

Aquasize II

0.5 credit hours

A continuation of Aquasize I. Prerequisite: Physical Education 1425 with a grade of "S" or better or equivalent (1 lab hour)

Healthy Eating

1 credit hour

Basic and practical nutrition information that addresses misconceptions about the nature of food and nutrition in terms of overall wellness. Designed to provide personal appreciation, understanding and awareness of good nutrition and healthy eating. (1 lecture hour)

PHYSICAL EDUCATION 1555

Personal Fitness Program

1 credit hour

Assessments of components of physical fitness are covered. These components include cardiovascular fitness, muscular strength, muscular endurance, flexibility, body composition, stress and nutrition. Students then use the information ascertained from the assessments to design a personalized exercise prescription. (2 lab hours)

PHYSICAL EDUCATION 1556

Stress Management

1 credit hour

Exploration of the dimensions, sources and physiological responses to stress. Emphasis is on the development of skills and techniques for managing stress. (2 lab hours)

PHYSICAL EDUCATION 1557

Women's Health Issues

1 credit hour

Wellness topics specific to the needs, concerns and issues impacting women's health. (1 lecture hour)

PHYSICAL EDUCATION 1558

Men's Health Issues

1 credit hour

Wellness topics specific to the needs, concerns and issues impacting men's health. (1 lecture hour)

PHYSICAL EDUCATION 1559

Senior Health Issues

1 credit hour

Wellness topics specific to the needs, concerns and issues impacting senior health. (1 lecture hour)

PHYSICAL EDUCATION 1601

Dancercise I

1 credit hour

An aerobic fitness class choreographed to music using ballet, jazz and other dance styles. (2 lab hours)

PHYSICAL EDUCATION 1602

Dancercise II

1 credit hour

A continuation of Dancercise I. Prerequisite: Physical Education 1601 with a grade of "S" or better or equivalent (2 lab hours)

PHYSICAL EDUCATION 1611

Ballet I

1 credit hour

Beginning ballet skills. Introduction to the movements and dance skills of classical and contemporary ballet, including basic positions, barre work, center floor work and simple dances. (2 lab hours)

PHYSICAL EDUCATION 1612

Ballet II

1 credit hour

A continuation of Ballet I. Further work on the movements and dance skills of classical and contemporary ballet with emphasis on intermediate and advanced skills. Prerequisite: Physical Education 1611 or equivalent skill level (2 lab hours)

PHYSICAL EDUCATION 1621

Modern Jazz I

1 credit hour

An introduction to the movements and dance skills characteristic of jazz dance. This course provides an opportunity to condition the body in the areas of muscle and cardiovascular endurance, coordination, rhythm and balance. Class consists of isolated body movements, technique work, basic steps, step combinations, and traveling movements across the floor. (2 lab hours)

PHYSICAL EDUCATION 1622

Modern Jazz II

1 credit hour

A continuation of the movements and dance skills of Modern Jazz I. This course gradually adds advanced dance movements and step combinations. Increased opportunity for creative exploration and performance of jazz dance. Prerequisite: Physical Education 1621 or equivalent experience (2 lab hours)

PHYSICAL EDUCATION 1631

Social Dance

1 credit hour

Traditional and modern ballroom dancing for those who desire to learn techniques of leading and following in a social dance setting. Waltz, foxtrot, swing and polka, as well as contemporary and/or novelty dances. (2 lab hours)

PHYSICAL EDUCATION 1641

Recreational Dance

1 credit hour

Fundamental techniques of folk and square dancing. Etiquette, history, culture and music appreciation for specific dances are also covered. (2 lab hours)

PHYSICAL EDUCATION 1701

Aikido I

1 credit hour

A Japanese martial art based on harmony and nonaggression. The learning and performance of basic skills of the activity are stressed. Knowledge and techniques with special emphasis on safety, attitude and etiquette. (2 lab hours)

PHYSICAL EDUCATION 1702

Aikido II

1 credit hour

A continuation of Aikido I. A Japanese martial art based on harmony and non-aggression. The learning and performance of basic skills of the activity are stressed. Knowledge and techniques with special emphasis on safety, attitude and etiquette. Prerequisite: Physical Education 1701 or equivalent experience (2 lab hours)

PHYSICAL EDUCATION 1711

Hapkido I

1 credit hour

Hapkido is Korean martial art that emphasizes defensive techniques and Ki (inner power) through the coordination of mind and body. Hapkido teaches blocks, kicks and strikes, but emphasizes joint-locking and pressure points. (2 lab hours)

PHYSICAL EDUCATION 1712

Hapkido II

1 credit hour

A continuation of Hapkido I. Hapkido is a Korean martial art that emphasizes defensive techniques and Ki (inner power) through the coordination of mind and body. Hapkido teaches blocks, kicks and strikes, but emphasizes joint-locking and pressure points. These skills allow for effective control of an opponent. Prerequisite: Physical Education 1711 or equivalent (2 lab hours)

PHYSICAL EDUCATION 1721

Judo I

1 credit hour

The learning performance of fundamental psycho-motor skills and techniques of judo, individually and/or as part of a team, with special emphasis on safety and sportsmanship. (2 lab hours)

PHYSICAL EDUCATION 1722

Judo II

1 credit hour

A continuation of Judo I. Competition is encouraged when available, and more advanced techniques and strategies are explored. Prerequisite: Physical Education 1721 or equivalent, or consent of instructor (2 lab hours)

PHYSICAL EDUCATION 1731

JuJutsu I

1 credit hour

The art of Japanese Samurai from which judo and aikido were derived, JuJutsu is based on mechanical principles and is used only for defensive purposes. Benefits are improved fitness, coordination and defensive skill training. (2 lab hours)

PHYSICAL EDUCATION 1732

JuJutsu II

1 credit hour

A continuation of JuJutsu I. Advanced techniques and applications. Prerequisite: Physical Education 1731 (2 lab hours)

PHYSICAL EDUCATION 1741

Karate I

1 credit hour

An introduction to karate and the basics of the martial arts called Tang Soo Do. Stance, blocks, punches, kicks, elbow strikes, techniques of self-defenses, and physical and mental conditioning. (2 lab hours)

PHYSICAL EDUCATION 1742

Karate II

1 credit hour

Continued practice of Tang Soo Do skills and techniques with emphasis on intermediate to advanced level self defense skills. Prerequisite: Physical Education 1741 or equivalent (2 lab hours)

PHYSICAL EDUCATION 1751

Personal Defense

1 credit hour

Introduction to personal defense skills. (2 lab hours)

PHYSICAL EDUCATION 1761

Personal Safety for Women

1 credit hour

Emphasizes non-violent options (beyond traditional selfdefense) to offset assault on women. Safety awareness, de-escalation techniques and physical techniques are included. Social conditioning that creates the "victim" profile, the differences between passive, assertive and aggressive behavior, and the most common ways women are assaulted are also included. 2 lab hours)

PHYSICAL EDUCATION 1771

Malay Silat I

1 credit hour

Malaysian martial art form that involves defensive principles, self-awareness, skill and sensitivity training. Encompassing both soft and hard styles, the main emphasis is on self-preservation, deception skills and keeping a low profile. Music and a form of dance are also a part of this practice. (2 lab hours)

PHYSICAL EDUCATION 1800

Experiential Special Topics

1 to 3 credit hours

Experiential courses in Physical Education cover topics not otherwise covered by general education courses and other courses in the Catalog for the Physical Education discipline. These courses require direct experience and focused reflection in an in-depth study of a specific Physical Education topic and/or the critical analysis of contemporary issues in physical education. They are targeted to self-selected students with an interest in the subject matter and involve active participation: The course delivery incorporates an experiential component of no less than 50 percent but not to exceed 75 percent. This experiential component may include field studies, interdisciplinary learning and/or the practical application of physical education concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics etc.)

PHYSICAL EDUCATION 1801

Bowling I

1 credit hour

Introduction to the fundamental skills and techniques of bowling. Etiquette, scoring, game procedure and rules are covered. (2 lab hours)

PHYSICAL EDUCATION 1802

Bowling II

1 credit hour

Prepares students to advance from the level of a recreational bowler to competitive league bowler. Etiquette, scoring, advanced bowling technique, strategy and a review of the rules. Prerequisite: Physical Education 1801 or consent of instructor (2 lab hours)

PHYSICAL EDUCATION 1804

Bicycle Touring

1 credit hour

Outdoor cycling for recreation and fitness. Riding skills, equipment, training techniques, nutrition and planning for bike trips and/or touring. (2 lab hours)

PHYSICAL EDUCATION 1805

Angling

1 credit hour

Bait, spin-casting, still-fishing techniques, equipment care, and general fishing skills and practices. (2 lab hours)

PHYSICAL EDUCATION 1810

Canoeing

1 credit hour

Fundamental skills of canoeing, including basic strokes, safety and canoe camping. (2 lab hours)

PHYSICAL EDUCATION 1811

Backpacking

1 credit hour

Basics of backpacking, including wilderness survival skills, equipment, conditioning, first aid, environmental issues and etiquette. (2 lab hours)

PHYSICAL EDUCATION 1813

Outdoor Environment Skills

1 credit hour

Weekend and/or weeklong outdoors trips allow for development of wilderness survival and safety skills primarily through experiences in camping. Rock climbing, backpacking, hiking and canoeing experiences, depending on trip. (2 lab hours)

PHYSICAL EDUCATION 1821

Fencina I

1 credit hour

Beginning fencing. Topics include the grip, the lunge, parry, riposte, body positions, footwork, and movements for advance and retreat. Rules, etiquette, fencing equipment, scoring, safety, playing courtesies and open bouting are also included. (2 lab hours)

PHYSICAL EDUCATION 1822

Fencing II

1 credit hour

Builds on the skill of Fencing I by adding more advanced strategies of attack and defend. Footwork and speed drills are done with emphasis on good alignment. Time is divided equally between skill-building drills and practice bouts. Advanced strategies, rules, safety and etiquette are also emphasized. Prerequisite: Physical Education 1821 or equivalent (2 lab hours)

PHYSICAL EDUCATION 1831

Marksmanship

1 credit hour

Marksmanship skills for police academy trainees. (2 lab hours)

PHYSICAL EDUCATION 1840

Independent Study — Individualized

1 to 4 credit hours

Exploration and analysis of topics within physical education to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

PHYSICAL EDUCATION 1841

Rock Climbing

1 credit hour

An introduction to rock climbing, emphasizing basic skills and techniques. Also included: equipment usage, care of equipment, terminology and safety. (2 lab hours)

PHYSICAL EDUCATION 1851

Downhill Skiing I

1 credit hour

Downhill skiing emphasizing the development of basic skills and an understanding of safety procedures. (2 lab hours)

PHYSICAL EDUCATION 1852

Downhill Skiing II

1 credit hour

Downhill skiing emphasizing the practice and development of intermediate skiing techniques. Safety procedures and practices are also stressed. Prerequisite: Physical Education 1851 (2 lab hours)

PHYSICAL EDUCATION 1854 Cross Country Skiing I

1 credit hour

Introduction to cross country skiing skills. Skiing techniques, safety methods, winter survival techniques, care of equipment, orienteering and physical conditioning. (2 lab hours)

PHYSICAL EDUCATION 1855

Cross Country Skiing II

1 credit hour

A continuation of Cross Country Skiing I skills. Advanced cross country skiing techniques, increased physical conditioning, orienteering and leadership skills. Prerequisite: Physical Education 1854 or equivalent (2 lab hours)

PHYSICAL EDUCATION 1901

Hatha Yoga I

1 credit hour

Exploration and practice of the yogic system of mind/body awareness and fitness. Students improve muscular strength, endurance, flexibility and concentration. Release of stress and tension through yoga asanas (postures), pranayama (breath control) and meditation. (2 lab hours)

PHYSICAL EDUCATION 1902

Hatha Yoga II

1 credit hour

A continuation of Hatha Yoga I. Further exploration of the yogic system of mind/body awareness and fitness. Challenging asanas that require higher levels of strength and balance, as well as increased practice of inversions,

twists and backbends are covered. The chakra system of energy flow studied with the asana movements. Prerequisite: Physical Education 1901 or equivalent experience (2 lab hours)

PHYSICAL EDUCATION 1904

Gentle Yoga I

1 credit hour

A hatha yoga class designed to be less stressful on the joints. Asanas (poses) are chosen to emphasize flexibility and relaxation. Meditation techniques and restorative poses are emphasized. (2 lab hours)

PHYSICAL EDUCATION 1905

Gentle Yoga II

1 credit hour

A continuation of Gentle Yoga I. Prerequisite: Physical Education 1904 with a grade of "S" or better or equivalent (2 lab hours)

PHYSICAL EDUCATION 1908

Vinyasa Flow Yoga I

0.5 credit hours

A type of hatha yoga that links the breath with each movement to create a seamless and easy transition from one pose to the next. (1 lab hour)

PHYSICAL EDUCATION 1909

Vinyasa Flow Yoga II

0.5 credit hours

A continuation of Vinyasa Flow Yoga I. Prerequisite: Physical Education 1908 with a grade of "S" or better or equivalent (1 lab hour)

PHYSICAL EDUCATION 1911

Pilates I (Mat)

1 credit hour

Students participate in a series of stretching and strengthening exercises based on the Joseph Pilates (pil-LAH-teez) method of body conditioning. Designed to develop muscle strength and tone. This is a mat course; machines are not used. (2 lab hours)

PHYSICAL EDUCATION 1912

Pilates II (Mat)

1 credit hour

A continuation of Pilates I. Stretching and strengthening exercises based on the Joseph Pilates method of body conditioning. This is a mat course; machines are not used. Prerequisite: Physical Education 1911 with a grade of "S" or better or equivalent (2 lab hours)

PHYSICAL EDUCATION 1921

Power Yoga I

1 credit hour

Yoga postures (asanas) are coordinated specifically to the breath and in a continuous flow to not only enhance flexibility, muscular strength and endurance, but also to improve cardiovascular fitness to a further degree than basic yoga. Release of stress through yoga postures, pranayama (breathing), and meditative techniques is also covered. (2 lab hours)

PHYSICAL EDUCATION 1922

Power Yoga II

1 credit hour

A continuation of Power Yoga I. Increasingly advanced yoga moves (asanas) are coordinated specifically to the breath and in a continuous flow so as to further the components of physical fitness and overall wellness. Emphasis is on a more challenging workout. Release of stress through yoga postures, pranayama (breathing) and meditative techniques. Prerequisite: Physical Education 1921 or equivalent experience (2 lab hours)

PHYSICAL EDUCATION 1931

NIA Aerobics I

1 credit hour

An introduction to neuromuscular integrative action (NIA) aerobics. A holistic exercise course that combines martial arts, yoga, dance, physical, mental, emotional and spiritual exercises, and conditioning techniques. (2 lab hours)

PHYSICAL EDUCATION 1932

NIA Aerobics II

1 credit hour

A continuation of NIA aerobics. Further neuromuscular integrative action (NIA) activities provide a unique workout that combines basic conditioning techniques, martial arts, yoga and dance, as well as emotional and spiritual exercises. Prerequisite: Physical Education 1931 or equivalent experience (2 lab hours)

PHYSICAL EDUCATION 2200

Introduction to Physical Education

3 credit hours

A study of the history and development of physical education and the related areas of recreation, health, safety and athletics. Special emphasis is devoted to the aims and objectives of physical education. (3 lecture hours)

PHYSICAL EDUCATION 2201

Introduction to Coaching

3 credit hours

Principles, practices and philosophy of sports coaching for students interested in pursuing a coaching career at the youth, interscholastic or intercollegiate level. (3 lecture hours)

PHYSICAL EDUCATION 2202

Introduction to Athletic Programs

3 credit hours

A study of the organizational management and administration of athletic programs at the elementary, secondary, collegiate and professional levels. Emphasis is on both philosophical and practical aspects of athletics. (3 lecture hours)

PHYSICAL EDUCATION 2204

Theory and Practice of Baseball

3 credit hours

An introduction to baseball skills in the classroom and on the field covering skill progressions, strategies and teaching pedagogy of all nine positions of the game. (2 lecture hours, 2 lab hours)

PHYSICAL EDUCATION 2205

Theory and Practice of Soccer

3 credit hours

Knowledge, progressions and skills are emphasized in this fundamental approach to soccer. Offensive progressions include: fundamental skills, offensive moves, position breakdown, team formations and special plays. Defensive progressions include: team concepts, individual concepts, man-to-man defenses, zone defenses and special defensive formations. Team play and rules of the game are emphasized. (2 lecture hours, 2 lab hours)

PHYSICAL EDUCATION 2206

Theory and Practice of Basketball

3 credit hours

Knowledge, progressions and skills are emphasized in this fundamental approach to basketball. Offensive progressions include: fundamental skills, offensive moves, position breakdown, team offenses and special offenses. Defensive progressions include: team concepts, individual concepts, neutralization of offensive skills, man-to-man defenses, zone defenses and special defenses. Team play and rules of the game are emphasized. (2 lecture hours, 2 lab hours)

PHYSICAL EDUCATION 2208

Theory and Practice of Football

3 credit hours

Analysis, instruction and demonstration of the fundamental skills in football. A study of the various systems of play and the strengths and weaknesses of each. (2 lecture hours, 2 lab hours)

PHYSICAL EDUCATION 2224

Theory and Practice of Track and Field

3 credit hours

Track and field coaching and teaching theories, including skill technique for each event, season and daily practice preparation, and coaching methodology. Sprints, relays, hurdles, middle distance, shot put, discus, javelin, hammer, long jump, triple jump, high jump, pole vault and the multi-events are covered. (2 lecture hours, 2 lab hours)

PHYSICAL EDUCATION 2230

Theory and Practice of Volleyball

3 credit hours

Analysis, instruction, demonstration and teaching progression of the fundamentals of volleyball for the physical education major, player and/or future coach. Teaching and coaching methods, offensive and defensive systems and strategies, history and rule interpretations are included. (2 lecture hours, 2 lab hours)

PHYSICAL EDUCATION 2233

Theory and Practice of Fastpitch Softball

3 credit hours

An introduction to fastpitch softball skills in the classroom and on the field covering skill progressions, strategies and teaching pedagogy of all nine positions of the game. (2 lecture hours, 2 lab hours)

PHYSICAL EDUCATION 2238

Skin and Scuba Diving

3 credit hours

Development of skills for floating weightless in the campus' 15-foot deep pool. Safety and survival underwater skills are

achieved in classroom and pool sessions. Stresses understanding the environment, diving equipment and limitation of the individual. Successful completion of this course prepares the student for open water scuba diving. Scuba equipment is provided. Prerequisite: Demonstrate comfort in the water with reasonable swimming proficiency. (2 lecture hours, 2 lab hours)

PHYSICAL EDUCATION 2239 **Skin and Scuba Diving II**

3 credit hours

A continuation of Physical Education 2238. Refinement of previously learned skills and introduction to advanced skills. Prerequisite: Physical Education 2238 with a grade of "S" or better and/or certification and/or consent of instructor (2 lecture hours, 2 lab hours)

PHYSICAL EDUCATION 2240

Introduction to Sport Psychology

3 credit hours

An examination of the psychological reasons for people participating in various types of competitive and non-competitive sports. Application of psychological concepts to improve the athlete's personal growth and development with attention to the coach's role in accomplishing these objectives. Topics covered include: attainment of optimal arousal level, improvement of concentration, mental rehearsal for events, positive reinforcement, goal setting, relaxation techniques, and self fulfillment through non-competitive sports. (3 lecture hours)

PHYSICAL EDUCATION 2244

Lifeguard Training

2 credit hours

Students are trained and prepared to fulfill the requirements of the American Red Cross Life Guard Training certification. Topics include water safety, accident prevention, assist and rescue techniques, and the job requirements of a lifeguard. American Red Cross cards will be issued to those who qualify. Must be able to pass a swimming skills test at the beginning of class. Prerequisite: Swimming test at the discretion of the instructor. (Swimming skills at the level of "Swimmer" of the American Red Cross program recommended) (1 lecture hour, 2 lab hours)

PHYSICAL EDUCATION 2251

Living with Health

3 credit hours

Personal and community health issues. Achieving overall wellness and implementing behavior changes through knowledge of current health research. Major topics may include: stress management, anxiety and mood disorders, relationships, nutrition, physical fitness and exercise, weight management, drug use and abuse, cancer, cardiovascular diseases, AIDS and other sexually transmitted diseases. (3 lecture hours)

PHYSICAL EDUCATION 2253

CPR Training

1 credit hour

Cardiopulmonary resuscitation (CPR) for adult, child and infant. Automatic external defibrillator (AED) training. (2 lab hours)

PHYSICAL EDUCATION 2254

First Aid and CPR

3 credit hours

The value and need for training in emergency first aid, cardiopulmonary resuscitation and automatic external defibrillators are emphasized with certification granted upon successful completion of the course. (3 lecture hours)

PHYSICAL EDUCATION 2255

Care and Prevention of Athletic Injuries

3 credit hours

Introduction to the responsibilities and duties of an athletic trainer, including basic fundamentals and techniques, injury care and prevention, injury recognition, emergency care, supportive strapping and wrapping techniques, ordering of supplies, budgeting and the general operation of a training room facility. (3 lecture hours)

PHYSICAL EDUCATION 2256

Applied Procedures and Techniques

3 credit hours

Training room techniques and procedures. Applications to both hands-on practice and competitive field experience under the supervision of certified athletic trainers. (3 lecture hours)

PHYSICAL EDUCATION 2257

Athletic Taping Techniques

1 credit hour

Study and practice of supportive strapping, wrapping and taping techniques. Emphasis on proper techniques and appropriate injury situations requiring added support. (2 lab hours)

PHYSICAL EDUCATION 2260

The Science of Physical Fitness

2 credit hours

An introduction to basic exercise physiology principles as applied in the training and development of personal and professional fitness programs. Major topics include: muscle cell physiology, energy metabolism during exercise, nutrition for fitness, cardiovascular training and muscular conditioning. (2 lecture hours)

PHYSICAL EDUCATION 2261

Applied Kinesiology

3 credit hours

Functional anatomy and physiology essential to those in fitness and physical education professions. Special emphasis on the musculoskeletal system. Includes basic biomechanics and movement analysis for exercise and sport applications. (3 lecture hours)

PHYSICAL EDUCATION 2262

Fitness Instructor Training I – Group

2 credit hours

Application of exercise and teaching principles for leading group exercise classes. Practical experience in leading a variety of fitness classes in preparation for teaching and/or certification. (1 lecture hour, 2 lab hours)

PHYSICAL EDUCATION 2263

Fitness Instructor Training II - Personal

2 credit hours

Application of exercise and teaching principles for personal fitness instruction. Practical experience in leading a variety of exercise methods and techniques in preparation for teaching and/or certification. (1 lecture hour, 2 lab hours)

PHYSICAL EDUCATION 2800

Advanced Experiential Special Topics

1 to 3 credit hours

Advanced experiential courses in physical education cover topics not otherwise covered by general education courses and other courses in the Catalog for the Physical Education discipline, while building upon academic knowledge and skills acquired in introductory-level Physical Education classes. These courses require direct experience and focused reflection in an in-depth study of a specific physical education topic and/or the critical analysis of contemporary issues in physical education. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 50 percent but not to exceed 75 percent. This experiential component may include field studies, interdisciplinary learning, and/or the practical application of more complex physical education concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.) Prerequisite: At least one course in Physical Education or consent of instructor

PHYSICAL EDUCATION 2840 Experimental/Pilot Class

1 to 6 credit hours

Exploration and analysis of topics within Physical Education. This course is used to pilot a proposal for a permanent discipline course. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (6 lecture hours, 12 lab hours)

For more information regarding Physical Education, call Paul Zakowski (630) 942-2895.

PHYSICAL THERAPIST ASSISTANT

PHYSICAL THERAPIST ASSISTANT 1100 Introduction to Physical Therapy

2 credit hours

Overview of the physical therapy profession within the health care delivery system from a historical, philosophical and organizational context. Explores the physical therapy frame of reference in various practice and treatment areas. Personal and professional qualities of the health care provider, professional ethics, and the psychological aspects of treatment are discussed. Prerequisite: Admission to the Physical Therapist Assistant program or consent of instructor (2 lecture hours)

PHYSICAL THERAPIST ASSISTANT 1107

PTA Pathophysiology

2 credit hours

Pathophysiology includes the study of diseases and disorders commonly seen in physical therapy practice. An overview of ethiology, manifestations and treatment of significant diseases with emphasis on musculoskeletal, nervous and cardiopulmonary systems. Prerequisite: Admission to PTA program or consent of instructor (2 lecture hours)

PHYSICAL THERAPIST ASSISTANT 1109 Basic Health Care Skills and Principles of Soft Tissue Techniques

3 credit hours

Instruction in basic health care skills used in physical therapy, including practice in wheelchair management, body mechanics, transfers, gait training and first aid skills. Study and practical application of basic massage techniques and their variations. Includes identification of anatomical structures, therapeutic intervention using soft tissue manipulation, stretches, joint range of motion, postural drainage, and chest physical therapy techniques. Prerequisite: Admission to PTA program or consent of instructor (2 lecture hours, 2 lab hours)

PHYSICAL THERAPIST ASSISTANT 1110

PTA Documentation

1.5 credit hours

Observation, interviewing and medical note-writing techniques. Subject matter to include various assessment, treatment plan, progress note and discharge summary formats. Emphasis on writing style, reimbursement guidelines and legal aspects of note writing. Prerequisite: Admission to PTA program or consent of instructor (1.5 lecture hours)

PHYSICAL THERAPIST ASSISTANT 1111 PTA Kinesiology I

2 credit hours

The study of human movement utilizing principles of biomechanics, musculoskeletal anatomy and neuromuscular physiology. Analysis of human movement performed through the application of biomechanical principles, including but not limited to force, resistance, osteokinematics, arthrokinematics and planes of motion. Emphasis on basic biomechanics, the articular system, the skeletal system, the muscular system, the nervous system, the shoulder girdle and the shoulder joint. Prerequisites: Admission to PTA program or consent of instructor (2 lecture hours)

PHYSICAL THERAPIST ASSISTANT 1112 PTA Kinesiology II

3 credit hours

Continuation of application of biomechanical principles and analysis of human movement. Explores in detail the relationship of these principles to the elbow, forearm, wrist, hand, lower extremity, head, neck, trunk, and to gait and posture. Prerequisites: Physical Therapist Assistant 1111 with a grade of "C" or better, or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

PHYSICAL THERAPIST ASSISTANT 1114 PTA Total Patient Care

1 credit hour

Discussion of topics related to the physical therapy profession, including psycho-emotional aspects of caring for the patient, psycho-social problems of the ill and disabled, aging, medical ethics and professional ethics. Prerequisite: Admission to PTA program or consent of instructor (1 lecture hour)

PHYSICAL THERAPIST ASSISTANT 1201 PTA Therapeutic Modalities

4 credit hours

Therapeutic intervention utilizing physical agents, including heat, cold, light, sound, water, electricity and electromagnetic waves in the treatment of acute and chronic diseases and injuries. Introduction to wound care, burn care and infection control. Emphasis on the application and the safe appropriate use of treatment modalities. Prerequisite: Physical Therapist Assistant 1109 with a grade of "C" or better or consent of instructor (2 lecture hours, 4 lab hours)

PHYSICAL THERAPIST ASSISTANT 1202 PTA Therapeutic Exercise

2 credit hours

Continuation of therapeutic exercise for all ages, including stretching exercise. Emphasis is on the development of exercise programs for correction of postural dysfunction and gait abnormalities, including the use of orthotic devices relevant to mobility and daily function. Focus on therapeutic intervention for the patient following an amputation, including the use of prosthetic devices relevant to mobility and daily function. Assessment and intervention of Activities of Daily Living (ADL) issues are also emphasized. Prerequisites: Physical Therapist Assistant 1211 with a grade of "C" or better or consent of instructor (1 lecture hour, 2 lab hours)

PHYSICAL THERAPIST ASSISTANT 1211 **PTA Therapeutic Assessment and Basic Intervention**4 credit hours

Therapeutic exercise, including basic principles of exercise and basic evaluation skills pertaining to joint and muscle function. Emphasis is on the development of exercise programs for correction of specific conditions, muscle weakness and joint limitations as well as goniometric and manual muscle testing assessment. Prerequisite: Physical Therapist Assistant 1109 with a grade of "C" or better, or equivalent, or consent of instructor (2 lecture hours, 4 lab hours)

PHYSICAL THERAPIST ASSISTANT 1221 PTA Clinical Practicum I

1 credit hour

Provides initial opportunity to implement a variety of physical therapy treatment plans. Students will be oriented to the roles and responsibilities of the physical therapist assistant (PTA) and will have their initial supervised contact with clients having physical dysfunction. Prerequisite: Physical Therapist Assistant 1201 with a grade of "C" or better or consent of instructor (.5 lecture hour, 4.5 clinical hours)

PHYSICAL THERAPIST ASSISTANT 1840 Independent Study – Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

PHYSICAL THERAPIST ASSISTANT 2203 PTA Neuromuscular and Cardiopulmonary Rehabilitation

3 credit hours

Continuation of physical therapy techniques used in the assessment and intervention of patients with cerebrovascular accident (CVA), spinal cord injury (SCI), traumatic brain injury (TBI) and other neurological disorders. Also includes rehabilitation of patients with cardiovascular and pulmonary disorders. Prerequisites: Physical Therapist Assistant 1202 with a grade of "C" or better, or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

PHYSICAL THERAPIST ASSISTANT 2204 PTA Special Patient Populations

2 credit hours

Overview of physical therapy for special patient populations, including but not limited to pediatrics, geriatrics, bariatrics, lymphedema, women's health and incontinence. Prerequisites: Physical Therapist Assistant 2203 with a grade of "C" or better, or equivalent, or consent of instructor (2 lecture hours)

PHYSICAL THERAPIST ASSISTANT 2212 PTA Advanced Orthopedic Rehabilitation

4 credit hours

Continuation of the study of therapeutic exercise. Focus is on principles and application of progressive-resistive exercise, upper and lower extremity joint mobilization, and exercise progression. Emphasis is on orthopedic disorders and appropriate therapeutic intervention. Prerequisites: Physical Therapist Assistant 1202 with a grade of "C" or better, or equivalent or consent of instructor (2 lecture hours, 4 lab hours)

PHYSICAL THERAPIST ASSISTANT 2214 PTA Professional Issues

1 credit hour

Discussion of topics related to the physical therapy (PT) profession, including Medicare Prospective Payment System (PPS), pharmacology, cultural diversity, research, licensure, and other legal and ethical aspects that influence current Physical Therapist Assistant practice. Discussion also focuses on current trends in physical therapy practice. Prerequisites: Physical Therapist Assistant 2203 with a grade of "C" or better, or equivalent, or consent of instructor (1 lecture hour)

PHYSICAL THERAPIST ASSISTANT 2222 PTA Clinical Practicum II

1.5 credit hours

Provides initial opportunity to implement a variety of physical therapy treatment plans. Students will be oriented to the roles and responsibilities of the physical therapist assistant

(PTA) and will have their initial supervised contact with clients having physical dysfunction. Prerequisite: Physical Therapist Assistant 1221 with a grade of "S" or better or consent of instructor (.5 lecture hour, 4.5 clinical hours)

PHYSICAL THERAPIST ASSISTANT 2223 PTA Clinical Practicum III

2.5 credit hours

Clinical experience which provides students with opportunities to further improve their intervention skills, reinforce their intervention techniques, and reinforce concepts of proper body mechanics, therapist safety and client safety. Further improve communication skills, including documentation of goals, intervention plans and patient progress. Prerequisite: Physical Therapist Assistant 2222 with a grade of "S" or consent of instructor (.5 lecture hour, 16 clinical hours)

PHYSICAL THERAPIST ASSISTANT 2224 PTA Clinical Practicum IV

3 credit hours

Conclusion of supervised clinical experiences with opportunity to build upon knowledge and skills developed in prior clinical experiences. Focus is on entry-level competencies in providing comprehensive and consecutive interventions within the larger framework of departmental operations. Prerequisite: Physical Therapist Assistant 2223 with a grade of "S" or consent of instructor (.5 lecture hour, 20 clinical hours)

For more information, call (630) 942-4076.

PHYSICS

PHYSICS 1100 (IAI P1 900L)

Physics

4 credit hours

Conceptual study of laws of motion, forces, energy and momentum, properties and states of matter, heat and thermodynamics, wave motion, sound, light, electricity and magnetism, and atomic and nuclear physics. Prerequisite: Mathematics 0481 with a grade of "C" or better or a qualifying score on the mathematics placement test (3 lecture hours, 3 lab hours)

PHYSICS 1161

Technical Physics I

4 credit hours

Conceptual and algebra-based study of classical mechanics, electricity and magnetism, including laws of motions, forces, momentum, work, energy, rotational motion, electric charges, electric currents, circuits, magnetism, magnetic effects and electromagnetic induction. Emphasis is on physical concepts as applied to industrial/technical fields through completion of team projects. Prerequisites: Mathematics 0481 with a grade of "C" or better or equivalent and concurrent enrollment in Mathematics 1115 or 1432 or equivalent (3 lecture hours, 3 lab hours)

PHYSICS 1162

Technical Physics II

4 credit hours

Conceptual and algebra-based study of matter properties, temperature and heat, ideal gases, wave motion, sound,

light, AC electricity, and select topics of modern physics. Emphasis is on physical concepts as applied to industrial/technical fields in a series of team projects. Prerequisite: Physics 1161 with a grade of "C" or better or equivalent (3 lecture hours, 3 lab hours)

PHYSICS 1201 (IAI P1 900L)

General Physics I

5 credit hours

Algebra and trigonometry-based study of classical linear and rotational kinematics and dynamics (including work, energy, impulse, momentum, and collisions), fluids, heat, thermodynamics, periodic motion and wave motion. Course is intended for students who have taken high school physics and have experience with right-angle trigonometry. (Students without high school physics are encouraged to complete Physics 1100 before enrolling in this course.) Prerequisite: Mathematics 1115 or 1431 with a grade of "C" or better or a qualifying score on the mathematics placement test (4 lecture, 2 lab hours)

PHYSICS 1202

General Physics II

5 credit hours

Algebra-based study of electrostatics, electric fields, Gauss' law, capacitance, current, resistance, magnetic forces and fields, electromagnetic induction, DC and AC circuits, electromagnetic waves, mirrors, lenses, optics and modern physics. Prerequisite: Physics 1201 with a grade of "C" or better (4 lecture hours, 2 lab hours)

PHYSICS 1800

Experiential Special Topics

1 to 3 credit hours

Experiential courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent (to be determined by the disciplines). This experiential component may include field studies, interdisciplinary learning, and/or the practical application of discipline-related concepts, theories. principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.)

PHYSICS 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

PHYSICS 2111 (IAI P2 900L)

Physics for Science and Engineering I

5 credit hours

Calculus-based study of classical linear and rotational kinematics and dynamics, including work, energy, impulse, momentum, collisions, gravitation, periodic motion and wave motion. (Students without a strong high school physics background are encouraged to complete Physics 1201 before enrolling in this course.) Prerequisite: Mathematics 2231 with a grade of "C" or better (4 lecture hours, 3 lab hours)

PHYSICS 2112

Physics for Science and Engineering II

5 credit hours

Calculus-based study of electrostatics, electric fields, Gauss' Law, capacitance, current, resistance, magnetic forces and fields, electromagnetic induction, AC circuits, Maxwell's equations, electromagnetic waves, geometric optics and physical optics. Prerequisite: Physics 2111 with a grade of "C" or better (4 lecture hours, 3 lab hours)

PHYSICS 2115

Physics for Science and Engineering III

4 credit hours

Calculus-based study of fluids, thermodynamics, special relativity, introductory quantum mechanics, nuclear physics and particle physics. Prerequisite: Physics 2112 with a grade of "C" or better (3 lecture hours, 3 lab hours)

PHYSICS 2800

Advanced Experiential Special Topics

1 to 3 credit hours

Advanced experiential courses cover topics not otherwise covered by general education courses and other courses in the discipline, while building on academic knowledge and skills acquired in introductory-level classes. These courses require direct experience and focused reflection in an in-depth study of a specific topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent. This experiential component may include field studies, interdisciplinary learning, and/or the practical application of more complex geographic concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.) Prerequisite: At least one course in the discipline or consent of instructor

PHYSICS 2827

Advanced Selected Topics VII

1 credit hour

Advanced exploration and analysis of selected topics with a specific theme indicated by the course title listed in the college *Class Schedule*. May be taken three times for credit as long as different topics are selected. At least one course in Physics or consent of instructor (1 lecture hour)

PHYSICS 2840

Experimental/Pilot Class

1 to 6 credit hours

Exploration and analysis of topics within the discipline. This course is used to pilot a proposal for a permanent discipline course. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (6 lecture hours, 12 lab hours)

For additional information regarding Physics, call Thomas Carter, (630) 942-3346, or David Fazzini, (630) 942-3349.

POLITICAL SCIENCE

POLITICAL SCIENCE 1100 (IAI S5 903)

Introduction to Political Science

3 credit hours

An introduction to the study of political behavior, processes and institutions. Course includes a discussion and comparison of political ideas, theories, systems and policies. Focus on analysis of political problems on a national and global level, as well as a definition of central concepts. (3 lecture hours)

POLITICAL SCIENCE 1101 (IAI S5 900)

American Politics

3 credit hours

Analysis of the dynamics and processes of the evolving American constitutional democracy: its origins, structure and problems. Areas of study include an in-depth discussion of the U.S. Constitution, federalism, civil liberties, interest groups, political parties, campaigns, elections, mass media, Congress, the courts and the presidency. (3 lecture hours)

POLITICAL SCIENCE 1160

Modern Political Ideologies

3 credit hours

Introduction to major political philosophies and ideologies from John Locke to present-day political ideas. Topics may include Communism, Fascism, Liberalism, Conservatism, Utilitarianism, Capitalism, post-modernism, social contract theory and Libertarianism. (3 lecture hours)

POLITICAL SCIENCE 1800

Experiential Special Topics

1 to 3 credit hours

Experiential courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent (to be determined by the disciplines). The experiential component may include field studies, interdisciplinary learning, and/or the practical application of discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.)

POLITICAL SCIENCE 1820

Selected Topics I

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (3 lecture hours)

POLITICAL SCIENCE 1821

Selected Topics II

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (2 lecture hours, 2 lab hours)

POLITICAL SCIENCE 1822

Selected Topics III

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (1 lecture hour, 4 lab hours)

POLITICAL SCIENCE 1823

Selected Topics IV

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (6 lab hours)

POLITICAL SCIENCE 1824

Selected Topics V

2 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (2 lecture hours)

POLITICAL SCIENCE 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

POLITICAL SCIENCE 2203 (IAI S5 905)

Comparative Politics

3 credit hours

Introduction to the comparative study of developed and developing political systems. The politics and governments of selected countries are analyzed in their appropriate historical, social, economic and political settings. (3 lecture hours)

POLITICAL SCIENCE 2220 (IAI S5 904N)

World Politics

3 credit hours

Introduction to international relations and global politics. Discussion of different ideological perspectives such as Idealism and Realism, structure and function of international organizations, foreign policy and the role of diplomacy. Analysis of causes and consequences of war, poverty, international trade, international law, treaties, increase in population and global environmental destruction. (3 lecture hours)

POLITICAL SCIENCE 2221

Politics of the Middle East

3 credit hours

Acquaints students with one of the key contemporary political problems in today's international arena. Few regions of the world provoke more interest, controversy or international crises than the Middle East. This course surveys the geography, history, politics and social development of this dynamic and volatile region for those with no previous knowledge or study of the Middle East. Prerequisite: Political Science 1100 or equivalent, or consent of instructor (3 lecture hours)

POLITICAL SCIENCE 2240

Introduction to U.S. Foreign Policy

3 credit hours

An overview of U.S. foreign policy with emphasis on the events of the past six decades. The course provides a theoretical and historical overview of the major perspectives of the field as well as an evaluation of the actors and institutions that formulate foreign policy. (3 lecture hours)

POLITICAL SCIENCE 2800

Advanced Experiential Special Topics

1 to 3 credit hours

Advanced experiential courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline, while building on academic knowledge and skills acquired in introductorylevel classes. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less then 30 percent but not to exceed 70 percent (to be determined by the disciplines). This experiential component may include field studies, interdisciplinary learning, and/or the practical application of more complex discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.) Prerequisite: At least one course in the discipline or consent of instructor

POLITICAL SCIENCE 2820

Advanced Selected Topics I

3 credit hours

Advanced exploration and analysis of selected topics with a specific theme indicated by course title listed in college Class Schedule. May be taken three times for credit as long as different topics are selected. Prerequisite: At least one course in the discipline or consent of instructor (3 lecture hours)

POLITICAL SCIENCE 2821

Advanced Selected Topics II

3 credit hours

Advanced exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. Prerequisite: At least one course in the discipline or consent of instructor (2 lecture hours, 2 lab hours)

POLITICAL SCIENCE 2822

Advanced Selected Topics III

3 credit hours

Advanced exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. Prerequisite: At least one course in the discipline or consent of instructor (1 lecture hour, 4 lab hours)

POLITICAL SCIENCE 2823

Advanced Selected Topics IV

3 credit hours

Advanced exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. Prerequisite: At least one course in the discipline or consent of instructor (6 lab hours)

For additional information regarding Political Science, call Chris Goergen at (630) 942-2012, Carol Riphenburg at (630) 942-2670 or David Goldberg at (630) 942-2493.

PRACTICAL NURSING PROGRAM

PRACTICAL NURSING PROGRAM 1101 Practical Nursing Concepts and Skills I

10 credit hours

Fundamental concepts and skills used by the Practical Nurse when caring for adult and elderly patients with normal and common health problems requiring medical/surgical interventions in a variety of health care settings. Application of the nursing process for health promotion and maintenance, disease prevention, and supporting a dignified death. Skills and techniques developed and demonstrated in nursing skills laboratory and clinical setting. Includes the administration of medications and intravenous therapy in the clinical setting. Prerequisites: Admission into the Practical Nursing Program and Psychology 2237 with a grade of "C" or better, or equivalent (4 lecture hours, 4 lab hours)

PRACTICAL NURSING PROGRAM 1102 Pharmacology for the Practical Nurse

4 credit hours

Concepts and skills related to the role of the Practical Nurse in the administration of medications and intravenous therapy to patients across the life span. Includes content about medications necessary for safe and effective patient care. Emphasis is placed on special considerations for the geriatric patient. Prerequisites: Admission into the Practical Nursing Program and Psychology 2237 with a grade of "C" or better, or equivalent (3 lecture hours, 2 lab hours)

PRACTICAL NURSING PROGRAM 1103 Practical Nursing Concepts and Skills II

5 credit hours

Concepts and skills required of the Practical Nurse when caring for adults and elderly patients requiring mental health interventions and for the childbearing family and children in a variety of health care settings. Application of the nursing process for health promotion and maintenance, and disease prevention. Skills and techniques developed and demonstrated in the clinical setting. Includes administration of medications and intravenous therapy. Prerequisites: Practical Nursing 1101 and 1102 with a grade of "C" or better, or equivalent (3 lecture hours, 6 clinical hours)

PRACTICAL NURSING PROGRAM 1104 Practical Nursing Concepts and Skills III

7 credit hours

Advanced concepts and skills involved in the role of the Practical Nurse when caring for patients across the lifespan with normal and common health care problems in a variety of health care settings. Skills and techniques developed and demonstrated in the nursing skills laboratory and clinical setting. Includes the administration of medications and intravenous therapy in the clinical setting. Prerequisites: Practical Nursing 1103 with a grade of "C" or better, or equivalent, and concurrent enrollment in Practical Nursing 1105 and 1106 (4 lecture hours, 2 lab hours, 6 clinical hours)

PRACTICAL NURSING PROGRAM 1105 Practical Nurse Role Transition

5 credit hours

Integration of all concepts and skills taught in the previous nursing courses looking at more complex patient situations and nursing care. Skills and techniques are perfected in the clinical setting. Includes the administration of medications and intravenous therapy. Issues related to transition from student to practicing nurse. Includes a review for National Council Licensure Examination — Practical Nurse (NCLEX-PN) and strategies for success. Prerequisites: Practical Nursing 1103 with a grade of "C" or better, or equivalent, and concurrent enrollment in Practical Nursing 1104 and 1106 (2 lecture hours, 9 clinical hours)

PRACTICAL NURSING PROGRAM 1106 Issues and Trends in Practical Nursing

3 credit hours

Current nursing and health care issues and trends affecting Practical Nursing. Covers ethics and legal aspects of Practical Nursing practice. Comprehensive review of the Illinois Nurse Practice Act. Prerequisites: Practical Nursing 1103 with a grade of "C" or better, or equivalent, and concurrent enrollment in Practical Nursing 1104 and 1105 (3 lecture hours)

For more information, call (630) 942-3924.

PSYCHOLOGY

PSYCHOLOGY 0485

Personal Biofeedback and Stress Management

1 credit hour

An introduction to behavioral, cognitive and physiological correlates of stress and stress management, including an individualized practicum in thermal and surface electromyography biofeedback. This course fulfills BCIA certification requirements for 10 hours of personal biofeedback training, as well as providing for internships in direct clinical biofeedback with clients/patients. (0.5 lecture hour, 1 lab hour)

PSYCHOLOGY 1100 (IAI S6 900)

General Psychology

3 credit hours

A survey of the study of behavior and mental processes with emphasis on the scientific nature of contemporary psychological investigation. Topics discussed include research methods, the biology of behavior, sensation and perception, stress and adjustment, learning, memory, cognition, motivation, emotion, life-span development of behavior, personality, abnormal behavior and its therapies and social behavior. (3 lecture hours)

PSYCHOLOGY 1140

Human Sexuality

3 credit hours

An examination of human sexuality from a variety of psychosocial perspectives, with an emphasis on biological, psychological and cultural aspects. Prerequisite: Psychology 1100 (3 lecture hours)

PSYCHOLOGY 1150

Adjustment

3 credit hours

A survey of the theories of personality as they relate to dealing effectively with the adjustive demands of everyday life. The course includes coverage of the dynamics of stress and coping, interpersonal relationships, including ethnic, racial and gender issues, and approaches to personal growth. Not IAI approved for psychology major credit. (3 lecture hours)

PSYCHOLOGY 1180

Introduction to Behavioral Research

4 credit hours

An introduction to descriptive and experimental designs used in the study of behavior. Course content emphasizes methodology, procedures, ethics in research, psychological measurement, basic data analysis and research report writing. Prerequisite: Psychology 1100 (3 lecture hours, 2 lab hours)

PSYCHOLOGY 1800

Experiential Special Topics

1 to 3 credit hours

Experiential courses cover topics not otherwise covered by general education courses and other courses in the *Catalog* for the discipline. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter

and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent (to be determined by the disciplines). This experiential component may include field studies, interdisciplinary learning, and/or the practical application of discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.)

PSYCHOLOGY 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

PSYCHOLOGY 2205

Physiological Psychology

3 credit hours

Examines physiology as it relates to behavior, including the influence of the nervous system, the endocrine system, genetics, and the body's chemistry on sensation, motivation, learning and other behavioral processes. Prerequisite: Psychology 1100 (3 lecture hours)

PSYCHOLOGY 2210

Industrial and Organizational Psychology

3 credit hours

Introduces the student to the wide variety of psychological applications in business and industy. Topics covered include research methods, personnel psychology, performance evaluation, motivation and job satisfaction, organizational behavior, leadership and management, human factors and consumer psychology. Prerequisite: Psychology 1100 (3 lecture hours)

PSYCHOLOGY 2220

Educational Psychology

3 credit hours

Coverage of the application of learning principles and psychological theories to the process of education. Topics include physical growth and development, learning theories, cognitive theories, concept formation. intelligence, creativity, multicultural education, motivation, assessment, evaluation, and the impact of culture on learning styles. May include observational experiences. Prerequisite: Psychology 1100 (3 lecture hours)

PSYCHOLOGY 2230 (IAI S6 903)

Developmental Psychology: Childhood

3 credit hours

Developmental study of the child from conception through adolescence with emphasis on the influence of genetic, physical, cognitive, emotional and social factors. Prerequisite: Psychology 1100 (3 lecture hours)

PSYCHOLOGY 2233 (IAI S6 904)

Developmental Psychology: Adolescence

3 credit hours

The integration of theory and research as they apply to the basic concepts and themes in adolescent development. Includes discussion of the physical, emotional, social, familial, moral, educational and cultural aspects of adolescent development and behavior. Prerequisite: Psychology 1100 or equivalent (3 lecture hours)

PSYCHOLOGY 2235 (IAI S6 905)

Developmental Psychology: Adulthood

3 credit hours

Study of development of the normal adult from young through late adulthood concluding with the topics of death and dying. Includes the discussion of major theories of life span and adult development, as well as the development of self; cognitive, social and career development; physical health and aging; and coping, adaptation and mental health. Prerequisite: Psychology 1100 (3 lecture hours)

PSYCHOLOGY 2237 (IAI S6 902)

Developmental Psychology: The Life Span

3 credit hours

Study of development of humans from conception to death with emphasis on the scientific analysis of developmental patterns. Reviews research and major theoretical viewpoints on physical, cognitive, social, emotional, personality, career and moral development. Prerequisite: Psychology 1100 (3 lecture hours)

PSYCHOLOGY 2240 (IAI S8 900)

Social Psychology

3 credit hours

A systematic introduction to theory and research on the ways social factors influence individual and group behavior. Examines research methods, attitudes, social perception, conformity, leadership, group dynamics and the establishment of norms, emphasizing their effects on the individual. Prerequisite: Psychology 1100 (3 lecture hours)

PSYCHOLOGY 2255

Personality

3 credit hours

The scientific study of the origins of individual differences in thought, emotion and behavior. Topics covered include basic theoretical perspectives, assessment techniques, research methodologies, and current topics in personality research. Prerequisite: Psychology 1100 (3 lecture hours)

PSYCHOLOGY 2260

Abnormal Psychology

3 credit hours

An introduction to the theoretical approaches and empirical research in psychology used to define, assess, categorize, prevent and treat psychological disorders. Prerequisite: Psychology 1100 (3 lecture hours)

PSYCHOLOGY 2270

Health Psychology

3 credit hours

Examines theory and research on the reciprocal relationship between physical health, behavior and cognitive processes. Biopsychosocial factors related to the maintenance of health and the prevention and treatment of illness are explored. Attention is devoted to the impact of personal lifestyle on physical health, the interpersonal processes involved in the provision of medical care, and the emerging role of behavioral medicine in modern care. Prerequisite: Psychology 1100 (3 lecture hours)

PSYCHOLOGY 2280 (IAI M1 902)

Statistics for the Social and Behavioral Sciences 3 credit hours

Mathematical reasoning and the solving of real-life problems through an examination of the application of statistical methods in the analysis of quantitative data in academic and applied research. Topics include descriptive methods, basic probability theory, probability distributions, statistical inference, correlation, regression, f-test, t-test, and analysis of variance. Prerequisites: A grade of "C" or better in high school intermediate algebra or Mathematics 0482, and a grade of "C" or better in high school geometry or Mathematics 0470; and at least one course in the social/behavioral sciences (3 lecture hours)

PSYCHOLOGY 2800

Advanced Experiential Special Topics

1 to 3 credit hours

Advanced experiential courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent (to be determined by the disciplines). This experiential component may include field studies, interdisciplinary learning, and/or the practical application of disciplinerelated concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.) Prerequisite: At least one course in the discipline or consent of instructor

For additional information regarding Psychology, call Ken Gray at (630) 942-2223, Susan Harris-Mitchell at (630) 942-2035, Donald Kates at (630) 942-2309, Ada Wainwright at (630) 942-2509, Naheed Hasan at (630) 942-2028, Patricia Puccio at (630) 942-2325, David Shavalia at (630) 942-2187, Patricia Slocum at (630) 942-3043, Richard Voss at (630) 942-2016, Russell Watson at (630) 942-2097 or Felipe Armas at (630) 942-2943.

READING

READING 0410

Reading Readiness

1 credit hour

Reading fundamentals course designed to help students who have beginning reading skills learn about reading process. Students learn components of this process: understanding letter-sound correspondence (phonics); breaking words down into separate sounds (phonemic

awareness); understanding that words in text are related and convey a message (comprehension); pronouncing and defining words (vocabulary); and developing ability to automatically recognize and pronounce words (fluency). Students learn that reading is foremost an active, meaning-making activity. Learning techniques include visual tracking; improving short term visual memory; building a beginning reading vocabulary; and engaging in before, during and after reading activities. May be paired effectively with a word recognition course. Course may be taken two times for credit. (1 lecture hour)

READING 0411

Word Recognition I: Phonetic Analysis

1 credit hour

Reading fundamentals course in which students who have beginning reading skills learn to associate sounds with consonants, including consonant blends, consonant digraphs and silent consonants; with vowels, including long and short vowels, r-controlled vowels, diphthongs, vowel digraphs and y; and with the schwa sound. Using a multi-sensory approach, students learn basic sight words, practice decoding individual words, and read words in sustained text. Course may be taken two times for credit. (1 lecture hour)

READING 0412

Word Recognition II: Structural Analysis

1 credit hour

Reading fundamentals course in which students who have beginning reading skills learn to recognize and pronounce words through recognizing their structure: roots, affixes and compounds. Students learn basic syllabic patterns and how to apply patterns to decode words; how to use graphic, verbal and visual contextual clues to aid in decoding words; and how to use phonics principles and information in the dictionary to pronounce words. Using a multi-sensory approach, students practice reading individual words as well as reading words in sustained text. Course may be taken two times for credit. (1 lecture hour)

READING 0413

Pronunciation

1 credit hour

Reading fundamentals course in pronunciation for students who have beginning reading skills or for ESL students. Students learn to pronounce words using phonic/phonetic principles, the International Phonetic Alphabet, dictionary diacritical marks and accent indicators. Emphasis is on personal pronunciation problems, including stress, rhythm and intonation. ESL students may take Speech Communication 0495 (a course that prepares non-native speakers to take Speech Communication 1100) or an ESL conversation class concurrently. Course may be taken two times for credit. (1 lecture hour)

READING 0418

Basic Reading I

2 credit hours

Basic course designed to teach reading skills to students with limited proficiency in reading. Major emphasis is placed on developing word recognition and word attack skills. Vocabulary development and reading comprehension are included. Course may require visits to

the Reading Assistance Area for additional individualized instruction. Course may be taken two times for credit. Prerequisite: Appropriate score on the Reading Placement Test or self-placement (2 lecture hours)

READING 0419

Basic Reading II

2 credit hours

Basic course that reviews word recognition and word attack skills, structural analysis skills, dictionary skills and use of context clues. Emphasizes literal, inferential and evaluative comprehension skills. Course introduces speed and efficiency of reading and continues to develop vocabulary. Course may require visits to the Reading Assistance Area for additional individualized instruction. Course may be taken two times for credit. Prerequisite: Appropriate score on the Reading Placement Test or self-placement (2 lecture hours)

READING 0453

Comprehension I: Main Idea and Inferences

1 credit hour

Basic course in which students learn that reading is an active process that requires thinking before, during and after reading. Students determine their strengths and needs in reading through formal and informal testing procedures, including how attitudes toward reading affect reading performance. Students practice basic reading skills: locating the main idea in a variety of textual material; distinguishing between the main idea and important details; identifying the stated or implied topic sentence in a paragraph; evaluating comprehension of the text; interpreting directions and graphic material; and identifying rhetorical modes and how they aid comprehension. Course may be taken two times for credit. (1 lecture hour)

READING 0455

Comprehension II: Abstract Concepts and Critical Reading

1 credit hour

Basic course in which students learn to apply reading process to interpret what is read at a higher level of abstraction. Students learn to make generalizations, draw conclusions and follow a sequence of events; to become aware of how emotional reactions affect comprehension; to evaluate critically what is read and to analyze a variety of textual material for its quality, accuracy and truthfulness; and to apply what is read to real-life situations. Course may be taken two times for credit. (1 lecture hour)

READING 0457

Reading Efficiency

1 credit hour

Basic course in which students learn theories of reading fluency and practice various techniques to improve automaticity and reading rate. Course may be taken two times for credit. (1 lecture hour)

READING 0461

Vocabulary: Context and Word Structure

1 credit hour

Basic course in which students learn methods for expanding and enriching their vocabularies using context clues, word structure, etymology and word lists. Emphasis is on learning word concepts, not just definitions, and

reading text to develop and practice vocabulary. Course may be taken two times for credit. (1 lecture hour)

READING 0471

Study Skills I

1 credit hour

Basic course in which students learn and practice study skills: textbook reading, concentration and memorization, listening and notetaking, test-taking and time management. Students' strengths and areas of need are assessed through diagnostic inventories. Emphasis is on improving student performance by completing exercises and reading assignments that are discipline-related. Course may be taken two times for credit. (1 lecture hour)

READING 0475

Study Skills: Math Anxiety

1 credit hour

Basic course designed for students who want to reduce or manage math anxiety. Students examine underlying issues that contribute to math anxiety; discuss various learning styles; assess own learning style; learn ways to accommodate an instructor's teaching style; and learn strategies and techniques to effectively cope with math anxiety. Course may be taken two times for credit. (1 lecture hour)

REAL ESTATE

REAL ESTATE 1110

Real Estate Transactions

3 credit hours

Introduction to the fundamentals of real estate transactions in practice and theory. This course includes basic principles for those planning to buy, sell or own real estate. It is the required course for persons planning to take the Illinois Real Estate Salesperson License Examination. This course is a prerequisite for other real estate courses. (3 lecture hours)

REAL ESTATE 1120

Advanced Principles 2000

1 credit hour

Advanced principles in real estate, including agency, disclosure, environmental issues, escrow and license law. One of the required courses for persons planning to take the Illinois Real Estate Broker License Examination. Students must have completed the Real Estate Transactions course or hold a current Real Estate Salesperson License. Prerequisite: Real Estate 1110 with a grade of "C" or better, or equivalent, or a Real Estate Salesperson License (1 lecture hour)

REAL ESTATE 1122

Contracts and Conveyances

1 credit hour

Contracts and conveyances in real estate, including deeds, fixtures, contracts, real estate closings, foreclosure and redemption, land use controls, landlord/tenant relationship, cooperatives and condominiums. One of the required courses for persons planning to take the Illinois Real Estate Broker License Examination. Students must have completed the Real Estate Transactions course or hold a current Real Estate Salesperson License. Prerequisite: Real Estate 1110 with a grade of "C" or better,

or equivalent, or a Real Estate Salesperson License (1 lecture hour)

REAL ESTATE 1124

Brokerage Administration

1 credit hour

Brokerage administration of a real estate business, including Illinois real estate law and licensure, listings, title search, forms for closing, contract forms, and the brokersalesperson relationship. One of the required courses for persons planning to take the Illinois Real Estate Broker License Examination. Students must have completed the Real Estate Transactions course or hold a current Real Estate Salesperson License. Prerequisite: Real Estate 1110 with a grade of "C" or better, or equivalent, or a Real Estate Salesperson License (1 lecture hour)

REAL ESTATE 1126

Financing

1 credit hour

Financing of real estate, including types of financing, sources of financing, mortgages, mortgage documents, closing a mortgage, interest, liens, foreclosure, real property insurance, mortgage risk, principle of property value for mortgage credit, mortgage analysis and construction loans. One of the elective courses for persons planning to take the Illinois Real Estate Broker License Examination. Students must have completed the Real Estate Transactions course or hold a current Real Estate Salesperson License. Prerequisite: Real Estate 1110 with a grade of "C" or better, or equivalent, or a Real Estate Salesperson License (1 lecture hour)

REAL ESTATE 1128

Property Management

1 credit hour

Management of real property, including fundamentals of tenant-management relationship, property modernization, property maintenance, leases, real property insurance, commercial property, industrial property and advertising. One of the elective courses for persons planning to take the Illinois Real Estate Broker License Examination. Students must have completed the Real Estate Transactions course or hold a current Real Estate Salesperson License. Prerequisite: Real Estate 1110 with a grade of "C" or better, or equivalent, or a Real Estate Salesperson License (1 lecture hour)

REAL ESTATE 1152

Basic Appraisal Principles

2 credit hours

Introduction to basic appraisal principles, including real property concepts and characteristics, legal considerations, influences on real estate values, types of value, economic principles, and overview of real estate markets and analysis. One of the required courses for persons planning to take the Illinois Associate Real Estate Appraiser License Examination. This course meets Appraiser Qualifications Board (AQB) criteria. Students must have completed the Real Estate Transactions course or hold a current Real Estate License. Prerequisite: Real Estate 1110 with a grade of "C" or better, or equivalent, or a Real Estate License (2 lecture hours)

REAL ESTATE 1153

Basic Appraisal Procedures

2 credit hours

Introduction to basic appraisal procedures, including overview of approaches to value, valuation procedures, property description and residential applications. One of the required courses for persons planning to take the Illinois Associate Real Estate Appraiser License Examination. This course meets Appraiser Qualifications Board (AQB) criteria. Students must have completed the Real Estate Transactions course or hold a current Real Estate License and have completed Basic Appraisal Principles. Prerequisite: Real Estate 1110 with a grade of "C" or better, or equivalent, or a Real Estate License and Real Estate 1152 with a grade of "C" or better, or equivalent (2 lecture hours)

REAL ESTATE 1154

Uniform Standards of Professional Appraisal Practice 1 credit hour

Examines the 10 Uniform Standards of Professional Appraisal Practice, ethics rules and advisory opinions. One of the required courses for persons planning to take the Illinois Associate Real Estate Appraiser License Examination. This course meets Appraiser Qualifications Board (AQB) criteria. Students must have completed the Real Estate Transactions course or hold a current Real Estate License. Prerequisite: Real Estate 1110 with a grade of "C" or better, or equivalent, or a Real Estate License (1 lecture hour)

REAL ESTATE 1170

Home Inspection

5 credit hours

Examination and evaluation of the exterior and interior components of residential real property, which includes plumbing, electrical, Heating, Ventilation, Air Conditioning (HVAC), structural, foundation, roof, masonry or any other real property components. Illinois Home Inspector Law/ Administrative Rules and Standards of Practice are covered. Satisfies the education requirements set forth by the Office of Banks and Real Estate for Home Inspector licensing. Prerequisite: Minimum age of 21 with high school diploma or GED certificate (5 lecture hours)

REAL ESTATE 1820

Selected Topics I

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (3 lecture hours)

REAL ESTATE 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within real estate to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

For additional information, call Bill Carmody, program coordinator, at (630) 942-3358, or call the Business and Technology division at (630) 942-2592.

RELIGIOUS STUDIES

RELIGIOUS STUDIES 1100 (IAI H5 900)

Introduction to Religion

3 credit hours

This course provides a study of religion by examining representative cultural religious phenomena in a global context. In analyzing commonalities and differences among religious traditions and contexts, students develop an understanding of personal, communal and universal dimensions of religion as characterized through various religious phenomena, including philosophical formulations, sacred writings, religious experiences, ethics, rituals and art. (3 lecture hours)

RELIGIOUS STUDIES 1110 (IAI H5 901) Introduction to the Bible (Old Testament)

3 credit hours

This course offers an overview of the Hebrew Bible (in the Christian tradition known as the Old Testament) and selected writings from the Apocrypha as well as the Dead Sea Scrolls, introducing students to various academic methods of critical and creative ways of studying, analyzing and interpreting these ancient texts. (3 lecture hours)

RELIGIOUS STUDIES 1120 (IAI H5 901) Introduction to the Bible (New Testament)

3 credit hours

This course offers an overview of the Christian Bible (in the Christian tradition known as the New Testament) and selected Early Christian Writings, introducing students to various academic methods of critical study, analysis and interpretation of these ancient texts. (3 lecture hours)

RELIGIOUS STUDIES 1150 (IAI H5 904N)

World Religions

3 credit hours

An introductory investigation of the main ideas from the world's major living religions,: including Christianity, Islam, Hinduism, Buddhism, Taoism, Confucianism, Shintoism and primal religions. Credit can't be given for both Religious Studies 1150 and Philosophy 1150. (3 lecture hours)

RELIGIOUS STUDIES 1155 (IAI H4 903N)

Asian Thought

3 credit hours

An introductory overview of selected philosophical and religious systems of Asia. Emphasizes the conceptual and intellectual foundations of a variety of Asian traditions, and includes consideration of the historical and cultural contexts that shape them. Philosophy 1100 and/or Religious Studies 1100 is strongly recommended. (3 lecture hours)

RELIGIOUS STUDIES 1824

Selected Topics in Religion

2 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college

Class Schedule. May be taken three times for credit as long as different topics are selected. (2 lecture hours)

RELIGIOUS STUDIES 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

RELIGIOUS STUDIES 2160 (IAI H5 901)

Judaism, Christianity and Islam

3 credit hours

This course presents an overview of the historical development of Judaism, Christianity and Islam, as well as roles of scripture, ritual, theology and ethics. These religions' social relevance and their current interrelations are also considered. Religious Studies 1100 or comparable course is recommended (3 lecture hours)

RESPIRATORY CARE

RESPIRATORY CARE 1101

Basic Respiratory Care

3 credit hours

Role of the Respiratory Care practitioner. Basic management and maintenance of common Respiratory Care equipment to include applied therapeutic modalities. Major emphasis on oxygen and aerosol administration, arterial blood gas procedures, and pharmacologic administration. Prerequisite: Admission to the Respiratory Care Program (2 lecture hours, 3 lab hours)

RESPIRATORY CARE 1102

Intermediate Respiratory Care

3 credit hours

Intermediate procedures for the Respiratory Care practitioner. Theory and practice for cardiac and pulmonary pathology, positive pressure breathing, chest physical therapy, airway care and introductory mechanical ventilation. Prerequisite: Respiratory Care 1101 (2 lecture hours, 3 lab hours)

RESPIRATORY CARE 1103

Advanced Respiratory Care

3 credit hours

Advanced study in respiratory intensive care principles. Theory and practice to include management of life-support systems as applied in the emergency and intensive care units. Adult volume and pressure ventilation, monitoring and non-invasive positive pressure procedures. Prerequisite: Respiratory Care 1102 (2 lecture hours, 3 lab hours)

RESPIRATORY CARE 1105

Respiratory Assessment and Procedures

4 credit hours

Respiratory Care assessment to include vital sign and breath sound monitoring, oxygen monitoring and administration, universal/standard precautions and isolation procedures, patient and equipment safety

standards, patient charting and communication, cardiopulmonary resuscitation (CPR), and concepts in transcultural patient care. Prerequisite: Admission to the Respiratory Care Program (3 lecture hours, 3 lab hours)

RESPIRATORY CARE 1111

Clinical Practice I

4 credit hours

Clinical practice in the application of oxygen administration, aerosol and humidity therapy, incentive spirometry, chest physiotherapy, pharmacologic agents, therapeutic evaluation, arterial puncture, and communication skills with patient and staff. Prerequisites: Respiratory Care 1101, 1120 and 1121

RESPIRATORY CARE 1112

Clinical Practice II

4 credit hours

Clinical practice in the application of non-invasive positive pressure ventilation, including continuous and bi-level airway pressure therapy, airway care procedures, and the application of cardiopulmonary life-support. Previous clinical skill procedures included. Prerequisite: Respiratory Care 1111 or equivalent

RESPIRATORY CARE 1113

Intensive Respiratory Care Clinical Practice

3 credit hours

Clinical practice of intensive care procedures within hospital emergency rooms, surgical intensive, cardiac care and respiratory intensive care units. Life support systems, ventilator initiation, weaning, diagnostic monitoring and spirometry included. Prerequisite: Respiratory Care 1112 or equivalent

RESPIRATORY CARE 1120

Applied Cardiopulmonary Anatomy and Physiology 4 credit hours

Applied cardiopulmonary anatomy and physiology as related to Respiratory Care procedures and clinical practice. Major emphasis on the pulmonary and circulatory systems, ventilation and perfusion, diffusion and transport, pulmonary function and hemodynamic measurements, central nervous system control and fetal respiratory development. Prerequisite: Admission to the Respiratory Care Program (3 lecture hours, 2 lab hours)

RESPIRATORY CARE 1121

Applied Science for Respiratory Care

4 credit hours

Applied science concepts as related to Respiratory Care procedures and clinical practice. Concepts to include metabolic and respiratory acid-base balance, respiratory and cardiac formulas, blood gas data as applied to patient care, and case study interpretation and assessment. Prerequisite: Admission to Respiratory Care Program (3 lecture hours, 2 lab hours)

RESPIRATORY CARE 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

RESPIRATORY CARE 2201

Advanced Life Support, Monitoring and Trends

3 credit hours

Advanced concepts in life support and patient monitoring to include current ventilator modes and management, hemodynamic monitoring, ventilator graphics and polysomnography. Prerequisite: Respiratory Care 1103 (2 lecture hours, 2 lab hours)

RESPIRATORY CARE 2202

Pulmonary Function Testing

3 credit hours

Simple and advanced spirometry to include forced vital capacity measurements, maximum voluntary ventilation, flow-volume loop procedures, before and after bronchodilator studies, carbon monoxide diffusion, nitrogen washout, exercise testing and other pulmonary diagnostic tests. Prerequisite: Respiratory Care 1103 or equivalent (2 lecture hours, 2 lab hours)

RESPIRATORY CARE 2205

Neonatal and Pediatric Intensive Respiratory Care 3 credit hours

Advanced study in neonatal and pediatric respiratory intensive care principles. Theory and practice to include airway care, ventilator system management, and physiologic monitoring as applied to infants and children in the emergency and specialty intensive care units. Neonatal and pediatric advanced life-support included. Prerequisite: Respiratory Care 1103 (2 lecture hours, 2 lab hours)

RESPIRATORY CARE 2206

Advanced Intensive Respiratory Care – Adult

4 credit hours

Advanced clinical practice in emergency and adult intensive care units. Procedures to include clinical data evaluation, mechanical ventilation, hemodynamic monitoring, airway and chest X-ray interpretation, pharmacologic administration and advanced cardiac life-support. Pulmonary function diagnostics included. Prerequisite: Respiratory Care 1113

RESPIRATORY CARE 2207

Advanced Intensive Respiratory Care – Neonatal-Pediatric

3 credit hours

Advanced clinical practice in emergency, neonatal and pediatric intensive care units. Procedures to include data evaluation, ventilatory support, high-risk transport, hemodynamic monitoring, airway and chest X-ray interpretation, and pharmacologic administration. Neonatal and pediatric advanced life-support included. Prerequisite: Respiratory Care 2205

RESPIRATORY CARE 2250

Respiratory Care Board Review

3 credit hours

Comprehensive review and update of Respiratory Care, to include theory and procedures, as well as preparation for the Certified and Registered Respiratory Therapist exams through the National Board for Respiratory Care. (3 lecture hours)

RESPIRATORY CARE 2280

Advanced Clinical Assessment and Protocol

4 credit hours

Advanced clinical assessment of respiratory care patients to include airway and chest X-ray interpretation, the effects of pharmacologic agents in critical care, and the initiation of protocols and clinical practice guidelines. Prerequisite: Respiratory Care 1113 (3 lecture hours, 2 lab hours)

For more information, call (630) 942-2518 or (630) 942-2105.

RUSSIAN

RUSSIAN 1101

Elementary Russian I

4 credit hours

Develops the ability to speak, understand, read and write Russian in a cultural context. For the beginning student. (4 lecture hours)

RUSSIAN 1102

Elementary Russian II

4 credit hours

Continues to develop the ability to speak, understand, read and write Russian in a cultural context. For students who have successfully completed Russian 1101 or equivalent, or one year of high school Russian. (4 lecture hours)

RUSSIAN 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

RUSSIAN 2201

Intermediate Russian I

4 credit hours

Develops the ability to read and discuss modern texts: conversation, composition, grammar and a brief introduction to Russian literary history. For students who have successfully completed Russian 1102 or equivalent, or two years of high school Russian. (4 lecture hours)

RUSSIAN 2202 (IAI H1 900)

Intermediate Russian II

4 credit hours

Further develops the ability to read and discuss modern texts: conversation, composition, grammar and an introduction to Russian literary history. For students who have successfully completed Russian 2201 or equivalent, or three years of high school Russian. (4 lecture hours)

SOCIAL SCIENCE

SOCIAL SCIENCE 1100

Introduction to Social Science

3 credit hours

This is an interdisciplinary course combining the perspectives of two or more of the social and behavioral sciences (anthropology, economics, geography, history, political science, psychology and sociology) on the central issues in social science studies. This course explores the relationship between the social and behavioral sciences being studied. It reviews the application of the scientific method, compares theory and concepts, and reviews the different perspectives of the discipline being studied. This course is broad in nature and scope. It provides the basis for further study in the various social and behavioral sciences. (3 lecture hours)

SOCIAL SCIENCE 1110

Introduction to Globalization

3 credit hours

Introduction to the cultural, economic, political and social dimensions of globalization through major social-scientific theories. Addresses historical context in which globalization emerged, the rise of global institutions, the impact on labor and financial markets, the new social movements, the rise of global terrorism, and the aggravation of global poverty. The course also addresses alternative forms of social organizations and the question of development. (3 lecture hours)

SOCIAL SCIENCE 1800 Experiential Special Topics

1 to 3 credit hours

Social science course integrates two or more disciplines in the social and behavioral sciences. Experiential social science course covers topics not otherwise covered by general education and social behavioral sciences individual courses and other courses in the Catalog for the disciplines. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent (to be determined by the disciplines). This experiential component may include field studies. interdisciplinary learning, and/or the practical application of discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.)

SOCIAL SCIENCE 1820 **Selected Topics I**

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (3 lecture hours)

SOCIAL SCIENCE 1821

Selected Topics II

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. (2 lecture hours, 2 lab hours)

SOCIAL SCIENCE 1822

Selected Topics III

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. (1 lecture hour, 4 lab hours)

SOCIAL SCIENCE 1823

Selected Topics IV

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. (6 lab hours)

SOCIAL SCIENCE 2800

Advanced Experiential Special Topics

1 to 3 credit hours

Social science courses integrate two or more disciplines in the social and behavioral sciences. Advanced experiential social science course covers topics not otherwise covered by general education courses and social behavioral sciences individual courses while building on academic knowledge and skills required in introductory-based courses. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent (to be determined by the disciplines). This experiential component may include field studies, interdisciplinary learning, and/or the physical application of discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.) Prerequisite: At least one course in the social and behavioral sciences or consent of instructor

For additional information regarding Social Science, call Christine Monnier at (630) 942-2438.

SOCIOLOGY

SOCIOLOGY 1100 (IAI S7 900)

Introduction to Sociology

3 credit hours

Students explore the concepts and theories necessary to systematic understanding of our social worlds. Topics may include considering sociology as science, the nature of large- and small-scale groups, social stratification, historical eras and social change, and race, ethnic and gender relations. (3 lecture hours)

SOCIOLOGY 1120 (IAI S7 904D)

Sociology of Sex, Gender and Power

3 credit hours

Examines the difference between behavior based on biology and 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. (3 lecture hours)

SOCIOLOGY 1800

Experiential Special Topics

1 to 3 credit hours

Social science courses integrate two or more disciplines in the social and behavioral sciences. Experiential social science courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent (to be determined by the disciplines). This experiential component may include field studies, interdisciplinary learning, and/or the practical application of discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.)

SOCIOLOGY 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

SOCIOLOGY 2200

Introduction to Research Methods

3 credit hours

Examination of social science research methods from theoretical, applied and ethical points of view. Acquaints students with qualitative and quantitative techniques and procedures used to measure human behavior, gather and analyze data, and evaluate and report on the findings. Prerequisite: At least one course in the social and behavioral sciences

SOCIOLOGY 2205 (IAI M1 902)

Statistics for the Social and Behavioral Sciences

3 credit hours

A basic examination of the application of statistical methods in the analysis of quantitative data. Use of computer technology and application software in academic and applied research. An understanding of frequently used statistical methods, including selection based on scale characteristics and theoretical relationships, quantitative methods, appropriate use and inherent weaknesses. Prerequisites: Mathematics 0482 or high school intermediate/college algebra with a grade of "C" or better and Mathematics 0470 or a high school geometry course. Also, at least one course in the social/behavioral sciences or consent of instructor (2 lecture hours, 2 lab hours)

SOCIOLOGY 2210 (IAI S7 901)

Social Problems

3 credit hours

Comparatively examines the linkages among social structures, culture and human experience in the context of the globalization process. Students examine a variety of topics, which may include the unequal distribution of power and wealth; issues of sex, gender and social class; hunger; the role of multinational corporations; war and international conflict; oppression of various kinds; crime; poverty; the media; other social institutions; resource/environmental use and depletion; and population. (3 lecture hours)

SOCIOLOGY 2215 (IAI S7 903D)

Racial and Ethnic Relations

3 credit hours

Provides a unique perspective to help understand how groups of people from different races, ethnic groups or other cultures interact. Examines differential power between groups and analyzes the social structures that are used to maintain these power differences. Focuses on cultural diversity and various dimensions of discrimination and prejudice, including an analysis of inequality and its origins, conditions under which inequality occurs and persists, changing inequality, and ways to deal with minority group problems. (3 lecture hours)

SOCIOLOGY 2220 (IAI S7 902)

Sexual Relationships, Marriage and Family

3 credit hours

A cross-societal focus on sex-roles, dating, mate selection and sexuality. Traditional and emerging marriage, family and child-rearing patterns are explored from multi-national and global perspectives. Marital dynamics, including expressiveness, marital power, conflict, family violence, divorce and the later years of marriage are featured. (3 lecture hours)

SOCIOLOGY 2225

Sociology of Violence

3 credit hours

Examines the nature and causes of violence in the context of contemporary society and how the structure of society itself, as well as various social factors, contribute to violence. Explores types of violent behavior, including interpersonal, collective and organizational. (3 lecture hours)

SOCIOLOGY 2230

Criminology

3 credit hours

Examines characteristics and theoretical explanations of patterns of criminality and society's response to crime. Includes patterns of various types of crime, how these are measured, and how these observations impact research,

theory and public policy. Issues include social response to crime, including interaction among system, victim and offender; issues of the criminal justice system, social control and public opinion. (3 lecture hours)

SOCIOLOGY 2251

Health and Illness in Contemporary Society 3 credit hours

This course examines illness as a phenomenon, which both influences and is influenced by society. As such, it can be viewed as a form of social deviance, which patients, healers and the larger society attempt to reduce. Perspectives provided by theory and research in the sociology of deviance, occupations and complex organizations are employed to gain an understanding of health and illness behavior, health practitioners and health institutions. (3 lecture hours)

SOCIOLOGY 2252

Social Gerontology: Aging and Society

3 credit hours

This course focuses on aging with emphasis on demographic trends, individual aspects of aging, such as family and social support networks, retirement and adaption to aging. Particular emphasis is given to issues surrounding aging and society, including the economy, politics, health and social services, and public policy — both nationally and at the local level. (3 lecture hours)

SOCIOLOGY 2253

Dying, Death and Bereavement

3 credit hours

Examines the social meanings of dying and death, as well as grief and bereavement processes. Topics include the funeral, ethical issues, children and dying, hospice, suicide and bereavement history in America. (3 lecture hours)

SOCIOLOGY 2290

Social Communications

3 credit hours

Increase self-understanding, interpersonal effectiveness, and the ability to work in and understand the network of communications in group, family, and organizational situations. The social relationships, processes, and structures that exist in group life become apparent to students as they use an experience-based model of communications. Prerequisite: Consent of instructor (3 lecture hours)

SOCIOLOGY 2800

Advanced Experiential Special Topics

1 to 3 credit hours

Social science courses integrate two or more disciplines in the social and behavioral sciences. Advanced experiential courses cover topics not otherwise covered by general education courses and other courses in the *Catalog* for the discipline. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent (to be determined by the disciplines). This experiential component may include field studies,

interdisciplinary learning, and/or the practical application of discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.)

SOCIOLOGY 2820

Advanced Selected Topics I

3 credit hours

Advanced exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. Prerequisite: At least one course in the discipline or consent of instructor (3 lecture hours)

SOCIOLOGY 2821

Advanced Selected Topics II

3 credit hours

Advanced exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. Prerequisite: At least one course in the discipline or consent of instructor (2 lecture hours, 2 lab hours)

SOCIOLOGY 2822

Advanced Selected Topics III

3 credit hours

Advanced exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. Prerequisite: At least one course in the discipline or consent of instructor (1 lecture hour, 4 lab hours)

SOCIOLOGY 2823

Advanced Selected Topics IV

3 credit hours

Advanced exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. Prerequisite: At least one course in the discipline or consent of instructor (6 lab hours)

For additional information regarding Sociology, call Sherwood Edwards at (630) 942-2077, Christine Monnier at (630) 942-2438, Julie Durrer at (630) 942-2032, Mary Jean Cravens at (630) 942-2333, R. Dean Petersen at (630) 942-3036, Mario Reda at (630) 942-2008 or Delores Wunder at (630) 942-3072.

SPANISH

SPANISH 1100

Civilization and Culture of Spain

3 credit hours

Introduction in English to the culture, geography, history, economics, political institutions, psychology, literature, music, art and architecture of Spain. (3 lecture hours)

SPANISH 1101

Elementary Spanish I

4 credit hours

Develops the ability to speak, understand, read and write Spanish in a cultural context. For the beginning student. (4 lecture hours)

SPANISH 1102

Elementary Spanish II

4 credit hours

Continues the development of the ability to speak, understand, read and write Spanish in a cultural context. For students who have successfully completed Spanish 1101 or equivalent, or one year of high school Spanish. (4 lecture hours)

SPANISH 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

SPANISH 2201

Intermediate Spanish I

4 credit hours

Continues to develop the ability to speak, understand, read and write Spanish in a cultural context. Includes reading and discussion of modern texts, conversation, composition, grammar review and cultural activities. For students who have successfully completed Spanish 1102 or equivalent, or two years of high school Spanish. (4 lecture hours)

SPANISH 2202 (IAI H1 900)

Intermediate Spanish II

4 credit hours

Continues to develop the ability to speak, understand, read and write Spanish in a cultural context. Includes reading and discussion of modern texts, conversation, composition, grammar review and cultural activities. For students who have successfully completed Spanish 2201 or equivalent, or three years of high school Spanish. (4 lecture hours)

SPANISH 2206 (IAI H1 900)

Spanish for Heritage Speakers I

4 credit hours

Develops understanding, speaking, reading and writing skills in Spanish for students who comprehend spoken Spanish and may have some degree of skill in speaking, reading and writing ability. Focuses on reading development, orthography, lexical expansion, formal grammar, and facility in writing and composition. Fosters appreciation of Hispanic cultural-linguistic heritage. (4 lecture hours)

SPANISH 2208 (IAI H1 900)

Spanish for Heritage Speakers II

4 credit hours

Continues to develop understanding, speaking, reading and writing skills in Spanish for students who comprehend spoken Spanish and may have some degree of speaking, reading and writing ability or have successfully completed Spanish 2206 or equivalent. Focuses on reading development, orthography, lexical expansion, formal grammar, facility in writing and composition. Fosters appreciation of Hispanic cultural-linguistic heritage. (4 lecture hours)

SPANISH 2251 (IAI H1 900)

Conversation and Composition I

3 credit hours

Develops students' listening and comprehension, speaking, reading and writing skills and expands knowledge of the culture and civilization of Spanish-speaking countries. For students who have successfully completed Spanish 2202 or equivalent, or four years of high school Spanish. (3 lecture hours)

SPANISH 2252 (IAI H1 900)

Conversation and Composition II

3 credit hours

Develops students' listening comprehension, speaking, reading and writing skills and expands knowledge of the culture and civilization of Spanish-speaking countries. For students who have successfully completed Spanish 2251 or equivalent, or five years of high school Spanish. (3 lecture hours)

SPANISH 2820

Advanced Selected Topics I

3 credit hours

Advanced exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. Prerequisite: At least one course in the discipline or consent of instructor (3 lecture hours)

SPEECH COMMUNICATION

SPEECH COMMUNICATION 0495

Preparation for College Speech for Non-Native Speakers

3 credit hours

This course is designed primarily to prepare students, whose first language is not English, for college-level speech courses. Introductory speaking exercises and speeches are included in the course work. This course is intended for students who are high school graduates and whose spoken English is most likely comprehensible to native speakers. May be repeated up to nine total credit hours. Prerequisite: English as a Second Language 0958 or equivalent, or consent of instructor recommended (3 lecture hours)

SPEECH COMMUNICATION 1100 (IAI C2 900) Fundamentals of Speech Communication

3 credit hours

A variety of experiences that develop basic concepts of the oral communication process. The class includes communication theory as well as speech preparation and delivery. Highly recommended: Prior to enrollment, student should have A) a satisfactory score, as determined by the English faculty, on an English Composition entrance test, and B) evidence of having met the Reading Competency Requirement (3 lecture hours)

SPEECH COMMUNICATION 1110

Oral Interpretation

3 credit hours

Basic techniques of the oral performance of literature with emphasis on content analysis and performance. (3 lecture hours)

SPEECH COMMUNICATION 1120

Small-Group Communication

3 credit hours

Study of leadership, group process and interpersonal relations in the small group, conference and public forum. (3 lecture hours)

SPEECH COMMUNICATION 1140

Public Relations

3 credit hours

This course is designed to introduce students to the public relations field. Covers topics from the nature of the work done by public relations practitioners to the description and use of the tools involved. Also, the various functions of public relations are examined, including the overall process of research, planning and decision making, action and communication, and evaluation. (3 lecture hours)

SPEECH COMMUNICATION 1150

Introduction to Business Communication

3 credit hours

This course is designed to help students understand communication behaviors and concepts in order to develop effective communication skills in the business environment. It covers topics related to communication between employees and their supervisors, communication within work groups and public communication. (3 lecture hours)

SPEECH COMMUNICATION 1190

Applied Forensics

1 credit hour

Participation in forensics program. Application of public speaking, oral interpretation and debate skills to competitive situations. May be repeated three times for credit. (2 lab hours)

SPEECH COMMUNICATION 1800

Experiential Special Topics

1 to 3 credit hours

Experiential courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent (to be determined by the disciplines). This experiential component may include field studies, interdisciplinary learning, and/or the practical application of discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.)

SPEECH COMMUNICATION 1840

Independent Study – Individualized

1 to 4 credit hours

Exploration and analysis of topics within Speech Communication to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

SPEECH COMMUNICATION 2130

Advanced Public Speaking

3 credit hours

An interactive course exploring persuasive and informative speech preparation and delivery. Students learn to use visual aids effectively, handle questions and answers, analyze communication events and understand the media. Prerequisite: Speech 1100 or consent of instructor (3 lecture hours)

SPEECH COMMUNICATION 2160

Argumentation and Debate

3 credit hours

Develops and improves argumentative and critical-thinking skills in communication settings. Topics include analysis of discourse, development of sound oral reasoning, proper methods of refutation, and the facilitation of argumentation in group situations. Through participation in various types of in-class debates and forums on current topics, students research topics, discover issues and formulate propositions as they apply to social and personal decision-making. Prerequisite: Speech 1100 or consent of instructor (3 lecture hours)

SPEECH COMMUNICATION 2190

Forensics Theory and Practice

3 credit hours

Explores the pedagogy of competitive forensics (speech, debate and performance of literature). Topics include the history of forensics, event analysis and rule interpretation, topic invention, instruction techniques for each event, rehearsal and performance methodologies, and critical methodologies. Intended for the communications major, potential or current competitor, future judge and/or future coach. (3 lecture hours)

SPEECH COMMUNICATION 2210

Readers' Theater (Group Performance of Literature) 3 credit hours

This interactive course offers techniques in the oral presentation of literature by groups of two or more. Covers writing, adapting, acting and directing skills, and the use of readers' theater in elementary schools, counseling seminars, religious services and traditional entertainment. (3 lecture hours)

SPEECH COMMUNICATION 2800

Advanced Experiential Special Topics

1 to 3 credit hours

Advanced experiential courses cover topics not otherwise covered by general education courses and other courses in the *Catalog* for the discipline, while building on academic knowledge and skills acquired in introductory-level classes. These courses require direct experience and

focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent (to be determined by the disciplines). This experiential component may include field studies, interdisciplinary learning, and/or the practical application of more complex discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.) Prerequisite: At least one other Speech course or consent of instructor

SPEECH-LANGUAGE PATHOLOGY ASSISTANT

SPEECH-LANGUAGE PATHOLOGY ASSISTANT 1101 Introduction to Speech-Language Pathology

4 credit hours

Overview of normal and disordered communication. Explores speech, language, cognitive development and disorders, and hearing disorders across the age continuum according to etiology, clinical manifestations and intervention. Includes anatomy and physiology of speech, language and hearing. Addresses the psychosocial impact of communicative disorders on clients and their families. Includes observations of speech-language therapy in local therapy settings. (4 lecture hours)

SPEECH-LANGUAGE PATHOLOGY ASSISTANT 1105 **Phonetics**

3 credit hours

Overview of the science of phonetics. Explores the anatomy and physiology of the speech mechanism and the mechanics of speech sound production. Includes an introduction to International Phonetic Alphabet (IPA) and commonly used diacritics with an emphasis on transcription in clinical settings. Prerequisite: Prior completion or concurrent enrollment in Speech-Language Pathology Assistant 1101 or consent of instructor (3 lecture hours)

SPEECH-LANGUAGE PATHOLOGY ASSISTANT 1106 Speech Disorders and Intervention Across the Lifespan I 4 credit hours

Overview of the etiologies and characteristics of a variety of speech disorders across the lifespan with an emphasis on intervention strategies. Includes an exploration of motor speech disorders, tracheostomies, laryngectomies, organic and functional voice disorders, orofacial anomalies and fluency disorders. Includes a review of neuroanatomy and physiology as it pertains to motor speech disorders and anatomy and physiology of the speech mechanism. Prerequisites: Speech-Language Pathology Assistant 1101 and 1105 or consent of instructor (4 lecture hours)

SPEECH-LANGUAGE PATHOLOGY ASSISTANT 1107 Speech Disorders and Intervention Across the Lifespan II 2 credit hours

Examination of the potential etiologies and characteristics of articulation and phonological disorders with an

emphasis on intervention strategies. Explores sequence and timing of speech sound acquisition. Addresses differences between articulation and phonological disorders in terms of nature and treatment. Includes an introduction to oral motor exercises. Prerequisites: Speech-Language Pathology Assistant 1101 and 1105 or consent of instructor (2 lecture hours)

SPEECH-LANGUAGE PATHOLOGY ASSISTANT 1109 Language Development

3 credit hours

Exploration of the components of language and theories of language development. Emphasis placed on the typical sequence and timing of acquisition of language skills from infancy to adolescence. Includes typical changes in language during various stages of adulthood. Addresses issues of dialects and bilingualism. Explores the impact of environment and play on language development and the use of developmentally appropriate toys to encourage language development. Prerequisite: Speech-Language Pathology Assistant 1101 or consent of instructor (3 lecture hours)

SPEECH-LANGUAGE PATHOLOGY ASSISTANT 1110 Language Disorders and Intervention Across the Lifespan

4 credit hours

Examination of the potential etiologies and characteristics of language disorders across the lifespan with an emphasis on intervention strategies. Addresses delayed/disordered language development in the pediatric population (infancy through adolescence) as well as aphasia, right hemisphere syndrome, traumatic brain injury, and dementia in the adult population. Includes exploration of language-based learning disabilities and language enrichment and literacy programs. Includes a review of neuroanatomy and physiology as it pertains to neurogenic language disorders. Prerequisite: Speech-Language Pathology Assistant 1109 or consent of instructor (4 lecture hours)

SPEECH-LANGUAGE PATHOLOGY ASSISTANT 1112 *Introduction to Audiology*

2 credit hours

Overview of the study of audiology. Includes anatomy and physiology of the auditory system, review of audiological screening and assessment, aural pathologies and intervention strategies. Emphasis placed on impact of aural pathologies on communicative development and education as well as identification with hearing impaired/deaf culture. Prerequisite: Speech-Language Pathology Assistant 1101 or consent of instructor (2 lecture hours)

SPEECH-LANGUAGE PATHOLOGY ASSISTANT 1301 Sign Language I

3 credit hours

Overview of the manual alphabet, numbers and basic sign vocabulary used in American Sign Language (ASL). Emphasis on development of both expressive and receptive signing skills. Explores Deaf history and culture and provides an understanding of the Deaf community. (3 lecture hours)

SPEECH-LANGUAGE PATHOLOGY ASSISTANT 1821 Selected Topics I

1 credit hour

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. Prerequisite: Acceptance into program or coordinator approval 1 lecture hour)

SPEECH-LANGUAGE PATHOLOGY ASSISTANT 1822 Selected Topics II

2 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. Prerequisite: Acceptance into program or coordinator approval (2 lecture hours)

SPEECH-LANGUAGE PATHOLOGY ASSISTANT 1840 Independent Study – Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

SPEECH-LANGUAGE PATHOLOGY ASSISTANT 2101 Clinical Methods and Documentation

4 credit hours

Exploration of the components of treatment goals, behavior modification, data collection and documentation. Includes instruction in planning a therapy session based upon a written therapy plan, with an emphasis on identifying appropriate and effective activities and materials to elicit target behaviors. Explores commonly utilized screening and assessment tools as appropriate in the SLPA scope of service. Prerequisites: Speech-Language Pathology Assistant 1106, 1107 and prior completion or concurrent enrollment in Speech-Language Pathology Assistant 1110, or consent of instructor (4 lecture hours)

SPEECH-LANGUAGE PATHOLOGY ASSISTANT 2102 Professional Issues and the SLPA

4 credit hours

Addresses a wide variety of issues pertinent to the professional life of the SLPA. Explores SLPA scope of service, licensure and registration, workplace skills, ethics, employment settings, team membership and conflict resolution, universal precautions, culturally sensitive practice, and the psychosocial impact of communication disorders. Includes resume writing and interviewing skills. Prerequisites: Speech-Language Pathology Assistant 1106, 1107 and 1110 or consent of instructor (4 lecture hours)

SPEECH-LANGUAGE PATHOLOGY ASSISTANT 2104 Augmentative and Alternative Communication 3 credit hours

Overview of augmentative and alternative communication (AAC) terminology, symbols, application of low-versus high-tech devices, and intervention. Includes overview of

populations using AAC and issues of motor and sensory impairments. Prerequisites: Speech-Language Pathology Assistant 1106, 1107 and 1110 or consent of instructor (3 lecture hours)

SPEECH-LANGUAGE PATHOLOGY ASSISTANT 2112 Clinical Practicum

6 credit hours

Supervised clinical experience in two clinical placements, such as health care, clinic or school settings. Addresses development of clinical skills, including professionalism, implementation of prescribed therapy plans, data recording and documentation. Emphasis on developing competencies for ethical and effective SLPA practice. Requires attendance at assigned clinical sites three days per week. Prerequisites: Speech-Language Pathology Assistant 2101 and prior completion or concurrent enrollment in Speech-Language Pathology Assistant 2102, or consent of instructor

SPEECH-LANGUAGE PATHOLOGY ASSISTANT 2301 Sign Language II

3 credit hours

Expansion of American Sign Language (ASL) skills learned in Speech-Language Pathology Assistant 1301. Emphasis on development of both expressive and receptive conversational skills. Development of syntax skills and enhancement of vocabulary. Addresses Deaf history, culture and community in greater depth. Prerequisite: Speech-Language Pathology Assistant 1301 (3 lecture hours)

For more information about this program, call Stacy Kaplan, program coordinator, at (630) 942-4331.

SURGICAL TECHNOLOGY

SURGICAL TECHNOLOGY 1101 Surgical Technology Concepts I

16 credit hours

Exploration of perioperative fundamentals, including surgical sciences, patient care concepts, surgical technology responsibilities, and surgical intervention, including application and practice. The concepts of surgical terminology and pharmacology/anesthesia will also be included. Anatomy and Physiology along with Medical Terminology are strongly recommended. Prerequisite: Admission to the Surgical Technology program (11 lecture hours, 24 clinical hours, 4 lab hours)

SURGICAL TECHNOLOGY 1102 Surgical Technology Concepts II

8 credit hours

Continuation of Surgical Technology Concepts I with emphasis on acquiring proficiency in the clinical setting. The student will continue to gain expanded knowledge of areas of the perioperative environment. Prerequisite: Surgical Technology 1101 with a grade of "C" or better or equivalent (5 lecture hours, 24 clinical hours)

SURGICAL TECHNOLOGY 1103

Surgical Technology Concepts III

8 credit hours

Continuation of Surgical Technology Concepts II with emphasis on acquiring continued proficiency in the clinical

setting. This course includes advanced theory into surgical technology and surgical practices. Prerequisite: Surgical Technology 1102 with a grade of "C" or better (5 lecture hours, 24 clinical hours)

SURGICAL TECHNOLOGY 1104 Surgical Technology Concepts IV

16 credit hours

Continuation of Surgical Technology Concepts III with emphasis on acquiring proficiency in the clinical setting. The student will continue to gain expanded knowledge of areas of the perioperative environment. Preparation for the certification exam will also be incorporated into the course work. Prerequisite: Surgical Technology 1103 with a grade of "C" or better (13 lecture hours, 24 clinical hours)

For additional information, call Kathy Cabai, program coordinator, at (630) 293-4115.

THEATER

THEATER 1100 (IAI F1 907)

Theater Appreciation

3 credit hours

Enhances appreciation and understanding of the theatrical experience: reading and analysis of scripts, theater attendance followed by exercises in written and oral critiques, discussion of the elements of play production and the business of theater. Intended for the general student to enhance his/her ability to become an appreciative and discerning theater audience member. No previous theater experience is required. Play attendance required. (3 lecture hours)

THEATER 1104

Introduction to Theater

3 credit hours

Examines theater as an art form. Includes history, dramatic structure, literature, styles and types, terminology, selected readings, comparative studies, and roles of playwright, actor, director, designer, technician, front of house and the audience. Plays placed in their historical context. Designed for the general student and theater major. Play attendance required. (3 lecture hours)

THEATER 1105

Improvisational Acting

3 credit hours

Emphasizes helping the beginning actor and non-theater student create believable characters using subtext through concentration, imagination and observation in non-scripted scenes. Exercises provide a foundation for using subtext, playing in the moment, and creating truthful relationships in scripted and non-scripted scenes, and the use of the body and voice as communicative agents. Play attendance required. (3 lecture hours)

THEATER 1108

Voice and Diction

2 credit hours

Studies of voice sound production. Designed to teach actors relaxation, breathing, and an understanding of the actor's vocal life and demands. No previous theater experience is required. Play attendance required. (2 lecture hours)

THEATER 1109

Stage Movement

2 credit hours

Introduces principles and techniques of theatrical stage movement. Designed to help actors make their bodies more flexible and efficient instruments of expression. No previous theater experience is required. Play attendance required. (2 lecture hours)

THEATER 1111

Acting I

3 credit hours

Introduces actors to the principles and techniques of creating believable characters through action, improvisation, analysis, movement, business, physicalization, vocal control, audition workshop, scene study and interpretation. Major contemporary playwrights used for scene study. No previous theater experience is required. Play attendance required. (3 lecture hours)

THEATER 1112

Acting II

3 credit hours

Continues development of skills acquired in Acting I. Helps students develop believeable characters while working on acting exercises and duet scenes from contemporary dramatic literature. Actors are also introduced to acting in period plays. Play attendance required. Prerequisite: Theater 1111 (3 lecture hours)

THEATER 1120

Rehearsal and Performance

1 credit hour

Participation in play production. After auditions and assignments, the class is composed of the students in a college-produced play. Prerequisite: Consent of instructor (2 lab hours)

THEATER 1140

Summer Repertory Theater

6 credit hours

A performance course that offers the student an opportunity to perform or be on a crew for two or three productions. The repertory may include musicals, plays for children, contemporary and/or classical dramas and comedies. Non-acting opportunities include costuming, set construction, lights, sound, wardrobe, stage make-up, properties, box office work and assistant directing or management, and stage management. Prerequisite: Audition and/or interview (1 lecture hour, 10 lab hours)

THEATER 1151

Dance Theater I

2 credit hours

Emphasizes the principles and practical demands of dance within the musical theater. Primarily jazz-dance based movement, with ballet basics included. Integrates an extensive dance warm-up into movement vocabulary and works on various combinations inspired by classic Broadway musicals from the 1920s through the 1980s. Includes techniques for exercise, audition requirements, various performance styles and choreographic projects. Field trips and master classes utilized whenever possible. Designed for beginning to intermediate levels of dance students. (4 lab hours)

THEATER 1152

Dance Theater II

2 credit hours

Primarily jazz-dance based course with some ballet combinations included. Integrates an extensive dance warm-up into movement vocabulary and builds on principles learned in Dance Theater I. Includes advanced studies of classic Broadway musical choreography styles from the 1920s through the 1980s, dance techniques, audition requirements, performance styles and choreographic projects. The final includes choreography and/or public performance. Field trips and master classes used whenever possible. Designed for intermediate to advanced level dance students. Some previous training is necessary. Prerequisite: Theater 1151 with a grade of "C" or better, or equivalent, or consent of instructor (4 lab hours)

THEATER 1800

Experiential Special Topics

1 to 3 credit hours

Experiential courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent (to be determined by the disciplines). This experiential component may include field studies, interdisciplinary learning, and/or the practical application of discipline-related concepts, theories, principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.)

THEATER 1820

Selected Topics I

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (3 lecture hours)

THEATER 1823

Selected Topics IV

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. (6 lab hours)

THEATER 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

THEATER 2211

Repertory Acting

3 credit hours

Helps the actor create roles and work in an ensemble. Selections include children's theater, comedy, drama, musicals and/or rehearsed improvisational works. Rehearsal and performance are required. Prerequisite: Consent of instructor based on audition (3 lecture hours)

THEATER 2221

Stagecraft

3 credit hours

Introduction to stage equipment, tools, materials and traditional methods of set construction and scene painting. (2 lecture hours, 2 lab hours)

THEATER 2222

Technical Production

3 credit hours

Introduction to the new materials and techniques of technical production, including special effects, lighting and sound. (2 lecture hours, 2 lab hours)

THEATER 2230

Play Directing

3 credit hours

Helps the inexperienced director make choices about scripts, script analysis, casting, focus of scenes, and the mood, rhythm, pace and main idea of productions. A participatory course that includes readings and attendance at plays, exercise work and scene direction.

(3 lecture hours)

THEATER 2800

Advanced Experiential Special Topics

1 to 3 credit hours

Experiential courses cover topics not otherwise covered by general education courses and other courses in the Catalog for the discipline. These courses require direct experience and focused reflection in an in-depth study of a specific discipline topic and/or the critical analysis of contemporary issues in the discipline. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent (to be determined by the disciplines). This experiential component may include field studies, interdisciplinary learning, and/or the practical application of discipline-related concepts, theories. principles and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.) Prerequisite: At least one course in the discipline or consent of instructor

THEATER 2820

Advanced Selected Topics I

3 credit hours

Advanced exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. Prerequisite: At least one course in the discipline or consent of instructor (3 lecture hours)

For more information, call Connie Canaday Howard, Director of Theater, (630) 942-2137, or Amelia Barrett (630) 942-2100.

TRAVEL AND TOURISM

TRAVEL AND TOURISM 1121

Introduction to the Travel, Tourism and Meetings Industries

3 credit hours

Overview of the career opportunities within the travel, tourism and meeting planning industries. Includes airlines, cruise lines, tour operators, wholesalers, charter operations, hotel representatives, car rental agencies, tourist offices, meeting and convention planning companies, incentive travel, consolidators, travel agencies and home-based agents. Specific job titles and necessary skills are examined. (3 lecture hours)

TRAVEL AND TOURISM 1122 Introduction to World Destinations

3 credit hours

Covers the seven continents of the world in general terms. Discusses basic geography terminology, including map reading, time zones and the location of major airports and cities. Examines companies serving these areas for tourism purposes. Analyzes cultural differences, weather and climate conditions from a traveler's perspective. (3 lecture hours)

TRAVEL AND TOURISM 1123

Introduction to Travel Documentation

3 credit hours

Domestic and international air travel basic terminology and documentation procedures, including fares, reservations, eticketing, airline computer Global Distribution Systems (GDS) and Internet capabilities. Examines the interrelationships of accommodations, car rentals, ground handlers, rail travel, air travel, consolidators and tours. (2 lecture hours, 2 lab hours)

TRAVEL AND TOURISM 1124

Introduction to Travel Communication and Business Etiquette

2 credit hours

Specialized industry interactive techniques and communication standards for travel and meeting planning arrangements. Includes various modes of information transmittal, protocols and professional etiquette for interpersonal interactions in the travel, tourism and meetings industries. (2 lecture hours, 1 lab hour)

TRAVEL AND TOURISM 1126 North American Destinations

1 credit hour

In-depth study of North America, including the United States, Canada, Mexico, and the islands in the Caribbean and Atlantic Ocean that are in proximity to the North American continent. Covers the location of major cities, airports and sea ports and the air, land and cruise companies serving these areas. Includes the location of important tourist attractions, unique land formations, climate data, the best time to visit the attractions, and how tour companies operate in these areas. Prerequisite: Travel

and Tourism 1122 with a grade of "C" or better or consent of instructor (1 lecture hour, 1 lab hour)

TRAVEL AND TOURISM 1127

European Destinations

1 credit hour

In-depth study of Europe and the Middle East. Covers the location of major cities, airports and sea ports and the air, land and cruise companies serving these areas. Includes the location of important tourist attractions, unique land formations, climate data, the best time to visit the attractions, and how tour companies operate in these areas. Prerequisite: Travel and Tourism 1122 with a grade of "C" or better or consent of instructor (1 lecture hour, 1 lab hour)

TRAVEL AND TOURISM 1128

Asian and South Pacific Destinations

1 credit hour

In-depth study of Asia and the South Pacific. Covers the location of major cities, airports and sea ports and the air, land and cruise companies serving these areas. Includes the location of important tourist attractions, unique land formations, climate data, the best time to visit the attractions, and how tour companies operate in these areas. Prerequisite: Travel and Tourism 1122 with a grade of "C" or better or consent of instructor (1 lecture hour, 1 lab hour)

TRAVEL AND TOURISM 1129

Central and South American Destinations

1 credit hour

In-depth study of Central and South America. Covers the location of major cities, airports and sea ports and the air, land and cruise companies serving these areas. Includes the location of important tourist attractions, unique land formations, climate data, the best time to visit the attractions, and how tour companies operate in these areas. Prerequisite: Travel and Tourism 1122 with a grade of "C" or

better or consent of instructor (1 lecture hour, 1 lab hour)

TRAVEL AND TOURISM 1130

African Destinations

1 credit hour

In-depth study of Africa. Covers the location of major cities, airports and sea ports and the air, land and cruise companies serving these areas. Includes the location of important tourist attractions, unique land formations, climate data, the best time to visit the attractions, and how tour companies operate in these areas. Prerequisite: Travel and Tourism 1122 with a grade of "C" or better or consent of instructor (1 lecture hour, 1 lab hour)

TRAVEL AND TOURISM 1202

Business Management for the Travel Professional 3 credit hours

Critical skills necessary to manage and succeed in the travel industry. Office routines, best business practices, compensation, operations, marketing, training, technology, legal issues, accounting and strategic planning skills. (3 lecture hours)

TRAVEL AND TOURISM 1209

Event Management

3 credit hours

Event management fundamentals for social, corporate and not-for-profit events. Plan, design, implementation and evaluation of events are covered. (3 lecture hours)

TRAVEL AND TOURISM 1210

Introduction to Global Distribution Systems

3 credit hours

Fundamental computer entries to complete an airline reservation within a computer system. Includes the major airline Global Distribution Systems (GDS), their operation, and value to travel agents, outside sales agents, homebased agents and independent contractors. (2 lecture hours, 2 lab hours)

TRAVEL AND TOURISM 1820

Selected Topics

3 credit hours

Introductory exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (3 lecture hours)

TRAVEL AND TOURISM 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

TRAVEL AND TOURISM 2130

Airline Operations and Security Procedures

2 credit hours

Operations and security procedures for domestic and international airlines, airport policies for handling passengers and their baggage, and procedures for transporting pets and other live animals, denied boarding compensation and other service areas. (2 lecture hours, 1 lab hour)

TRAVEL AND TOURISM 2201

Fundamentals of Meeting and Event Planning

3 credit hours

Introduction to professional meeting management, including conventions, trade shows, special event planning, meeting planners, meeting sponsors, meeting suppliers/facilities and meeting service providers.

(3 lecture hours)

TRAVEL AND TOURISM 2203

Incentive Travel and Planning

3 credit hours

Incentive travel and planning strategies, techniques and current trends, including program costs, program budgets, proposal writing, presentations, pre-trip and on-site operations, post-program evaluations and planning incentive travel programs. Prerequisite: Travel and Tourism 2201 with a grade of "C" or better or consent of instructor (3 lecture hours)

TRAVEL AND TOURISM 2205

Advanced Meeting and Event Planning

3 credit hours

Advanced study of policies, procedures and techniques for the meeting, convention and special event management industries, including evaluation of meeting industry affiliations and trade publications. Characteristics and requirements of incentive travel, Social, Military, Educational, Religious, or Fraternal (SMERF) organizations, and government agency meetings. Also includes marketing and promotional strategies for the arrangement of international itinerary preparation and meeting planning. Prerequisite: Travel and Tourism 2201 with a grade of "C" or better or consent of instructor (3 lecture hours)

TRAVEL AND TOURISM 2207

Marketing for the Travel, Tourism and Meetings Industries

3 credit hours

Travel, tourism and meeting industries marketing principles. Includes market research, market segmentation and current trends along with strategies, positioning and marketing objectives. Students develop an industry marketing plan. (3 lecture hours)

TRAVEL AND TOURISM 2210

Advanced Global Distribution Systems

3 credit hours

Covering the major airline Global Distribution Systems (GDS) with hands-on experience. Formats required to make itinerary changes, connection selections, fare quotes, reserve cars and hotels, and convert currency. Advanced booking procedures for reserving tour packages and cruises. Prerequisite: Travel and Tourism 1210 with a grade of "C" or better or consent of instructor (2 lecture hours, 2 lab hours)

TRAVEL AND TOURISM 2220

Internet Navigation Skills for the Travel Professional 3 credit hours

Examination and exploration of travel-related web sites, including airlines, cruise lines, hotels, tour operators, government, weather and health organizations. Overview of the design, content and methods of navigation among these sites, and analysis of the various ways that the Internet impacts the travel industry. Students have a hands-on opportunity to build their own web site for their favorite travel destination. Prerequisite: Computer Information Systems 1110 or 1130 or equivalent, or consent of instructor (2 lecture hours, 2 lab hours)

TRAVEL AND TOURISM 2221

World Cultures and International Tourism Issues 3 credit hours

The impact of international cultural differences on the travel, tourism and meeting industries. Includes business ethics, protocols, values, social customs, cultural taboos and accepted standards of behavior chosen from countries with which the United States presently has travel agreements. Also covers current global problems and international issues related to travel, tourism and meeting planning. (3 lecture hours)

TRAVEL AND TOURISM 2229

Advanced Travel Documentation

3 credit hours

Advanced methods for evaluating and selling domestic and international airline reservations, airline tickets and tours. Interpret international documentation requirements along with worldwide travel codes and terminology. Includes research and utilization of information on the

Internet and in hotel, tour and resource manuals.

Prerequisite: Travel and Tourism 1123 with a grade of "C" or better or consent of instructor (2 lecture hours, 2 lab hours)

TRAVEL AND TOURISM 2230

Travel Sales and Customer Service

2 credit hours

Sales techniques related to the travel, tourism and meeting industries and strategies for building customer service skills. (2 lecture hours)

TRAVEL AND TOURISM 2236

Cruise Industry Sales Specialization

3 credit hours

Study of the cruise line industry with analysis of contemporary cruising, marketing strategies and documentation. Includes evaluation of types of ships, styles, sizes, itinerary selection and destinations. Cruise Lines International Association (CLIA) members cruise lines will be evaluated. Credit toward CLIA certification available. (3 lecture hours)

TRAVEL AND TOURISM 2240

Tour Escorting, Planning and Operations

3 credit hours

Wholesale and group tour operations, including the initiation and development of tours and vacation packages, generating group business via travel agency sales, marketing travel products to the retail industry, and reviewing documentation preparation. Basic theories and strategies related to tour escorting are covered. (3 lecture hours)

TRAVEL AND TOURISM 2820

Advanced Selected Topics

3 credit hours

Advanced exploration and analysis of selected topics with a specific theme indicated by course title listed in college *Class Schedule*. May be taken three times for credit as long as different topics are selected. (3 lecture hours)

For additional information, contact Joanne Giampa, program coordinator, at (630) 942-2556, the Travel office at (630) 942-2572, or the Business and Technology division at (630) 942-2592.

VOCATIONAL SKILLS

VOCATIONAL SKILLS 0611

Employment Skills I

2 credit hours

Introduction to pre-employment skills to prepare for job placement. Includes resume writing, job interviewing and completing job applications. Prerequisite: Permission of the Vocational Skills program coordinator. (2 lecture hours)

VOCATIONAL SKILLS 0612

Employment Skills II

2 credit hours

Introduction to on-the-job skills. Includes understanding standards of behavior; communication with employers, coworkers and public; and time management. Prerequisite: Permission of the Vocational Skills program coordinator. (2 lecture hours)

VOCATIONAL SKILLS 0620

Keyboard Skills

2 credit hours

Introduction to computer keyboard and typing skills. Includes how to touch type alphabetic and special characters. Prerequisite: Permission of the Vocational Skills coordinator. (2 lecture hours)

VOCATIONAL SKILLS 0621

Computer Skills I

2 credit hours

Introduction to computer technology and word processing. Includes the basic parts of a computer, creating and editing documents for business, and using the Internet and e-mail. Prerequisite: Permission of the Vocational Skills coordinator, and Vocational Skills 0620 or keyboard experience (2 lecture hours)

VOCATIONAL SKILLS 0622

Computer Skills II

2 credit hours

Continuation of Vocational Skills 0621. Includes word processing, text editing, margins, text alignment, tabs, bullet lists, envelopes and labels. Prerequisite: Permission of the Vocational Skills coordinator and Vocational Skills 0621 (2 lecture hours)

VOCATIONAL SKILLS 0625

Business Office Skills I

2 credit hours

Introduction to basic office tasks and operation of office machines. Includes filing, mailing, copying, faxing and time management skills. Prerequisite: Permission of the Vocational Skills Coordinators. (2 lecture hours)

VOCATIONAL SKILLS 0631

Automotive Skills I

2 credit hours

Introduction to entry-level skills in automotive repair, maintenance and detailing. Includes classroom and handson training in basic car operations, tools and safety; oil and filter changes; basic maintenance of fluids, belts and tires; and interior and exterior cleaning. Prerequisite: Permission of the Vocational Skills program coordinator. (2 lecture hours)

VOCATIONAL SKILLS 0641

Food Service Skills I

2 credit hours

Introduction to the basic skills required for entry-level food service occupations. Includes demonstration and handson learning in basic sanitation, safe food handling, safety issues, basic food preparation and cooking. Prerequisite: Permission of the Vocational Skills program coordinator. (2 lecture hours)

VOCATIONAL SKILLS 0651

Hotel Housekeeping Skills I

2 credit hours

Introduction to basic skills required for entry-level hotel housekeeping occupations. Includes basic room cleaning, proper trash handling and cleaning product safety. Personal grooming and social skills are also covered. Prerequisite: Permission of the Vocational Skills program coordinator. (2 lecture hours)

VOCATIONAL SKILLS 0661

Horticulture Skills I

2 credit hours

Introduction to skills needed to work in a production greenhouse. Topics include plant potting and watering procedures, plant grooming methods, transplanting methods and plant propagating methods. Students assist in retail operations and plant care. Prerequisite: Permission of the Vocational Skills program coordinator. (2 lecture hours)

For additional information, call Sally Field Mullan (630) 942-2941.

WELDING TECHNOLOGY

WELDING TECHNOLOGY 1100

Welding I

3 credit hours

Basic electric arc, oxy-fuel, gas metal arc and gas tungsten arc welding processes. Safety procedures required to set up and shut down welding equipment for the various processes. Hands-on experience includes practice with the four welding systems using various thickness materials. Industrial standards and American Welding Society (AWS) standards for quality are discussed. (2 lecture hours, 2 lab hours)

WELDING TECHNOLOGY 1112

Oxy-Fuel, Welding, Plasma Cutting and Brazing

3 credit hours

Operation of oxyacetylene welding and cutting equipment and plasma cutting. Students learn to produce quality welds and braze joints in the flat, horizontal, overhead and vertical positions. Also introduces cutting methods of profile, pipe, square and bevel. Prerequisite: Welding Technology 1100 or equivalent (1 lecture hour, 4 lab hours)

WELDING TECHNOLOGY 1122

Shielded Metal Arc (SMAW)

3 credit hours

Theory and practice in the preparation and welding of steel joints in various positions. Safety, electrode selection, inspection and testing. Skill is developed in producing different position butt and fillet welds. American Welding Society testing is stressed. Prerequisite: Welding Technology 1100 or equivalent (1 lecture hour, 4 lab hours)

WELDING TECHNOLOGY 1132

Gas Metal Arc (MIG)

3 credit hours

Solid steel and cored wire welding on common industrial joints. Travel direction, weave motion, bead sequence and gun angles for out-of-position welding on steel are emphasized. Setup and operation of MIG welder for flux-core, stainless steel and aluminum welding under varying conditions. Prerequisite: Welding Technology 1100 or equivalent (1 lecture hour, 4 lab hours)

WELDING TECHNOLOGY 1142

Gas Tungsten Arc (TIG)

3 credit hours

Theory and practice of welding in all positions and on various joint configurations using the Gas Tungsten Arc Welding (GTAW or TIG) process on carbon steel, stainless

steel and aluminum. Prerequisite: Welding Technology 1100 or equivalent (1 lecture hour, 4 lab hours)

WELDING TECHNOLOGY 1151 Pipe Welding and Fabrication

3 credit hours

Covers safety inspections, minor repairs, operating parameters, and operation of shielded metal arc welding (SMAW), gas metal arc welding (GMAW) and flux core arc welding (FCAW) equipment in a variety of positions on various materials used in pipe joints. Evaluating and solving complex welding and fabrication problems. Prerequisites: Welding Technology 1100, 1112, 1122, 1132 and 1142 or equivalents, or consent of instructor (1 lecture hour, 4 lab hours)

WELDING TECHNOLOGY 1160

Skill Assessment

3 credit hours

Theory and practice of test qualification procedures for certification in accordance with AWS, API or other welding codes. Simple non-qualifying bend tests and/or non-destructive tests are performed at no extra cost. Additional testing may be performed by a private laboratory at the student's expense. Prerequisites: Welding Technology 1100 1112, 1122, 1132 and 1142 or equivalents, or consent of instructor (1 lecture hour, 4 lab hours)

WELDING TECHNOLOGY 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within the discipline to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

For additional information regarding Welding Technology, call Herb Haushahn, (630) 942-2599.

WOODWORKING

WOODWORKING 0610

Woodworking I

2 credit hours

Safety and basic use of woodworking equipment are emphasized. Included are selection and reading of patterns, selection of appropriate wood, tool safety and usage, construction and finishing techniques. Projects include the construction of small cabinets, pieces of furniture or other wood items. (1 lecture hour, 2 lab hours)

WOODWORKING 0620

Woodworking II

2 credit hours

Refinement of woodworking skills as presented in Woodworking I. Construction of more complex furniture or wood items. Prerequisite: Woodworking 0610 or consent of instructor (1 lecture hour, 2 lab hours)

For additional information, call Diane McHugh (630) 942-4605.

ZOOLOGY

ZOOLOGY 1220

Insects and Humans

3 credit hours

Study of insect life to include identification and ecology. Recognition and control of major pests as well as other arthropods such as arachnids, millipedes and centipedes. Relationships of insects to humans in the areas of agriculture, culture, forestry and medicine are explored. (2 lecture hours, 2 lab hours)

ZOOLOGY 1800

Experiential Special Topics

1 to 3 credit hours

Experiential courses in Zoology cover topics not otherwise covered by general education courses and other courses in the Catalog for the Zoology discipline. These courses require direct experience and focused reflection in an indepth study of a specific topic and/or the critical analysis of contemporary issues. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent. This experiential component may include field studies, interdisciplinary learning, and/or the practical application of Zoology concepts, theories, principles, and methods with a specific focus. All courses require an orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.)

ZOOLOGY 1840

Independent Study - Individualized

1 to 4 credit hours

Exploration and analysis of topics within Zoology to meet individual student-defined course description, goals, objectives, topical outline and methods of evaluation in coordination with and approved by the instructor. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 4 lecture hours)

ZOOLOGY 2250

Comparative Vertebrate Zoology

4 credit hours

The classification, anatomy and physiology of vertebrates is presented in a comparative manner. Topics include vertebrate evolution, vertebrate development, and various body systems and their organs. Student dissection of various examples of vertebrates is required. Prerequisites: Biology 1151 and 1152 (3 lecture hours, 3 lab hours)

ZOOLOGY 2260

Invertebrate Zoology

4 credit hours

Study of invertebrate phyla. Topics include invertebrate taxonomy, anatomy, physiology, reproduction, evolution, and the relationships of invertebrate with their environment. Prerequisites: Biology 1151 and 1152 or equivalent (2 lecture hours, 4 lab hours)

ZOOLOGY 2800

Advanced Experiential Special Topics

1 to 3 credit hours

Advanced experiential courses in Zoology cover topics not otherwise covered by general education courses and other courses in the *Catalog* for the discipline, while building on academic knowledge and skills acquired in introductory-level classes. These courses require direct experience and focused reflection in an in-depth study of a specific topic and/or the critical analysis of contemporary issues. They are targeted to self-selected students with an interest in the subject matter and involve active participation. The course delivery incorporates an experiential component of no less than 30 percent but not to exceed 70 percent. This experiential component may include field studies, interdisciplinary learning, and/or the practical application of more complex Zoology concepts, theories, principles and methods with a specific focus. All courses require an

orientation session to deliver academic and experiential information (syllabus, academic requirements, field preparation, logistics, etc.) Prerequisite: At least one course in Zoology or consent of instructor

ZOOLOGY 2840

Experimental/Pilot Class

1 to 6 credit hours

Exploration and analysis of topics within the discipline of Zoology. This course is used to pilot a proposal for a permanent discipline course. May be taken three times for credit as long as different topics are selected. Prerequisite: Consent of instructor (1 to 6 lecture hours, 2 to 12 lab hours)

For additional information regarding Zoology, call Chris Petersen, (630) 942-2517, or Thomas Ruehlmann, (630) 942-3064.









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