



OAKTON COMMUNITY COLLEGE

ACADEMIC BRIEFING

SPRING 2004

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The Office of Research, Curriculum and Planning is in its fifteenth year with our Academic Briefing. This is a publication to inform other colleges and universities about pertinent course/curriculum revisions which may affect articulation. Most changes will be reflected in the catalog for the forthcoming (2004-2005) academic year.

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SECTION I

CORRECTIONS/UPDATES: 2004-2005 CATALOG

- p. 31 The IAI code for HIS 139 should be S2 904N.
- p. 32 ? Under the Fine Arts category, delete HUM 162 and add HUM 142.
 • The IAI code for HUM 160 should be F2 909.
- p. 267 The IAI code for HIS 139 should be S2 904N.
- p. 274 The IAI code for HUM 160 should be F2 909.
- p. 282 The fees for LAN 181 and LAN 182 should be \$40.

SECTION II

COURSE & CURRICULUM CHANGES INCLUDED IN 2004-2005 CATALOG

AIR CONDITIONING, HEATING AND REFRIGERATION TECHNOLOGY

Curriculum revision:

Boiler Operations Certificate (#0067)

Change title to: Stationary Engineer License Preparation Certificate

Change requirements; total semester credit hours increase to 17.

Course revisions:

AHR 101

Introduction to Air Conditioning and Refrigeration

Change course description to:

This course consists of lectures, demonstrations and lab experiences in the area of basic vapor compression cycle in refrigeration, theory, and practice. The functioning and operating characteristics of the mechanical refrigeration system, including condensers, evaporators, compressors, refrigerant control devices, refrigerants, test equipment and special service procedures connected with the basic refrigeration cycle, are covered. The Clean Air Act set by EPA for proper use of refrigerants is explained.

AHR 201

Refrigeration Systems

Change title to: Commercial Refrigeration Systems

Delete prerequisite

Change course description to:

Various types of refrigeration systems, medium and low pressure temperature and their proper installations are studied, along with the product to be cooled, the desired temperature to be maintained, and humidity conditions. Problems involving system balance and component capacity and use of heat load charts are presented. An entire refrigeration cycle, from compressor discharge to compressor suction, is covered. Low, medium, and high pressure refrigeration systems are explained. The student will be required to provide his or her own basic tools.

ARABIC

Course additions:

ARB 101

4:3:2

Beginning Arabic I

This course develops the ability to communicate and appreciate Modern Standard Arabic in speaking and writing. Practice focuses on pronunciation and recognition of the sounds of Arabic, reading and writing the Arabic script, grammar, reading and listening comprehension, and communicating within the context of Arab culture. The course presumes no prior study of the language.

Fee \$15

ARB 102

4:3:2

Beginning Arabic II

This course continues to develop and expand the basic skills introduced in ARB 101 including pronunciation, vocabulary, grammar, reading, listening comprehension, and oral and written communication. Language skills are introduced within the context of Arabic culture.

Prerequisite: ARB 101 or equivalent background.

Fee \$15

Arabic course additions (cont.)

ARB 105

3:2:2

Conversational Arabic

This course is designed to provide conversational practice to develop oral communicative skills using correct pronunciation and structure. Students will learn to use the language appropriately within the context of Arabic culture through vocabulary development, oral presentations, role-play, and class discussion of Arabic language and life in the Arab world.

Prerequisite: ARB 102 or equivalent background.

Fee \$15

ART

Course addition:

ART 290

1-4:0-4:0-8

Topics in Art

This course is designed to meet the needs of students for specialized instruction in current topics in art, photography and/or graphic design. Topics will be identified for each section of the course. Students may repeat ART 290 up to 3 times on different topics for a maximum of 12 semester credit hours.

Prerequisite: Varies depending on specific topic.

Fee varies

Course revision:

ART 260

3-D Animation and Multimedia

Change prerequisite to: ART 216 or ART 250 or instructor's consent.

BIOLOGY

Course addition:

BIO 170

1:1:0

Human Aging

This course examines current concepts of the normal physical changes which occur in the adult human over time. Emphasis is on the physiological and structural effects of aging on the major organs and systems of the body. Application of scientific findings to the health and wellness of older individuals is discussed. Students cannot receive credit for both BIO 170 and PTA 170.

Prerequisite: A previous course in Biology or Health Sciences is recommended.

CISCO NETWORK ACADEMY/Computer Networking

Course additions:

CNA 121

4:3:2

Fundamentals of Cisco Wireless Networking

This course prepares students to achieve the Cisco Wireless LAN Support Specialist Designation. The course focuses on the design, planning, implementation, operation and troubleshooting of wireless LANs.

Prerequisite: CNA 112 or consent of instructor.

Fee \$40

Cisco Network Academy course additions (cont.)

CNA 181 4:3:2
Fundamentals of Network Security I
This course focuses on the overall security process with particular emphasis on hands-on skills in security policy design and management, security technologies, products and solutions. Students carry out the installation, programming, and maintenance of routers, switches and firewalls. Students cannot receive credit in both CNA 181 and LAN 181.
Prerequisite: Experience with routers/switches and Windows networking, or consent of instructor or program chair.
Fee \$40

CNA 182 4:3:2
Fundamentals of Network Security II
This course focuses on advanced security technologies, with an emphasis on skills in router remote access, VPN (virtual private network), PIX Firewall translations and connections. This hands-on course prepares students for installation, maintenance, and programming of routers, switches, and firewalls with emphasis on intrusion detection, monitoring and management. Students cannot receive credit in both CNA 182 and LAN 182.
Prerequisite: CNA 181 or LAN 181 or consent of instructor or program chair.
Fee \$40

COLLEGE STUDIES

Course addition:

COL 110 3:3:0
College Success for Adult Learners
This course is designed to prepare adult students to participate meaningfully and successfully in higher education. Topics include: study skills, time management, adult learning and accelerated formats, learning styles, career and educational goals, the language and standards of college, academic computing, and library research.

COMPUTER-AIDED DESIGN

Course revision:

CAD 130
Pro/Engineer I
Delete prerequisite
Change course description to:
Designed as an introduction to the Pro/Engineer Computer Aided Design software, this course focuses on basic commands used in parametric design. The goal is for students to develop their spatial visualization skill and ability to create and understand industrial designs. Topics include designing in 3-D solids, parametrics, design for assembly, and 3-D drawing documentation. This hands-on course includes creating 3-D assemblies and detail drawings to go from art to part utilizing solid modeling techniques. The core knowledge gained in this class allows the student to acquire the skills to operate any 3-D CAD system.

COMPUTER APPLICATION SOFTWARE

Curriculum revisions:

Revise the requirements for the Desktop Publishing Certificate (#0310); total semester credit hours are reduced to 17.

Revise the requirements for the Desktop Design Certificate (#0311); total semester credit hours remain the same.

Change requirements for the Microsoft Office User Specialist Excel Expert certificate (#0304); total semester credit hours increase to 15.

Computer Application Software course revisions:

CAS 165
QuarkXpress
Change prerequisite to: Hands-on microcomputer experience.

CAS 217
Adobe Photoshop
Change prerequisite to: Hands-on microcomputer experience.

CAS 225
Adobe Illustrator
Change prerequisite to: Hands-on microcomputer experience.

COMPUTER INFORMATION SYSTEMS

Curriculum additions:

Add a 14 semester credit hour Internet and Computer Core (IC³) Certificate (#0137).

Add a 12 semester credit hour Oracle Database Administrator (DBA) Certificate (#0139).

Course additions:

CIS 133 2:2:0
Introduction to Handheld Computers
This course introduces the student to handheld computers, also known as PDAs, using devices running the PalmOS operating system. Students learn the various tasks that can be performed with a PDA, and how to add functionality with new applications. Topics include using the Date Book, Address Book, To-Do List, Memo Pad, Calculator pre-installed applications, using a stylus to input information, and installing new software.
Prerequisite: CIS 101, CIS 103, hands-on computer skills or consent of instructor or chairperson.
Fee \$20

CIS 145 3:3:1
Database Fundamentals I
This course is designed to give the student a solid foundation in the administrative tasks performed by a database administrator. The student learns how to design, create, maintain, effectively manage, and troubleshoot an Oracle database and gains a conceptual understanding of the Oracle database architecture and how its components work and interact with one another. The student learns to use an administration tool to startup and shutdown a database, create a database, manage file and database storage, and manage users and their privileges. In addition, the student learns to organize the database and to move data into and between databases, under different environments. This class prepares the student for the corresponding Oracle Database Administrator certification exam.
Prerequisite: CIS 143 or consent of instructor, coordinator or department chair.
Fee \$40

CIS 245 3:3:1
Database Fundamentals II

This course continues developing the knowledge needed to perform the tasks of a database administrator. Topics include methods to backup, restore, and recover the database given various different scenarios, transporting data between databases and the utilities used, networking concepts and configuration parameters, solving common network problems, configuring network parameters to allow the database clients to communicate with the database server. This class prepares the student for the corresponding Oracle Database Administrator certification exam.

Prerequisite: CIS 145 or consent of instructor, coordinator or department chair.

Fee \$40

Computer Information Systems course additions (cont.)

CIS 247

3:3:1

Performance and Tuning

This course continues to develop the knowledge needed to perform the tasks of a database administrator. The course focuses on methods and techniques to maximize the performance of the database from the design to using the database in a production environment. Also, students learn how to recognize, troubleshoot and resolve common performance-related problems. This class prepares the student for the corresponding Oracle Database Administrator certification exam.

Prerequisite: CIS 245 or concurrent enrollment in CIS 245 or consent of instructor, coordinator or department chair.

Fee \$40

CIS 255

3:2:2

Technology Tools in the Classroom

This hands-on course introduces the educator to integrating the personal computer into the classroom to enhance instruction and classroom management by using a variety of software programs, hardware devices, and the Internet and its components (World Wide Web, e-mail, downloading, FTP). Topics and hands-on activities include using technology to develop an electronic presentation, develop a grade spreadsheet, develop a student database, use various methods to electronically communicate, build a Web site, use multimedia, use publisher's electronic materials, evaluate software, use the Internet for finding information and research, manage a personal computer system, and use additional hardware devices for learning purposes. This course is not designed to transfer as an Education degree requirement.

Prerequisite: Hands-on experience using a personal computer.

Fee \$30

Course revisions:

CIS 113

Introduction to Visual Basic Programming

Change course description to:

This course introduces the student to computer programming for Windows using Visual BASIC to solve business-related problems. Topics include program development and design, object-oriented programming, screen design, structured programming techniques, and event-driven programming using objects. Programs will include arithmetic calculations, decision making, looping, reports to screen and paper, subroutines and functions, data validation, working with arrays, and introductory concepts of file creation and data retrieval.

CIS 231

Advanced Java Programming

Change course description to:

This course covers topics in various Java technologies. Upon completion, students will be able to develop distributed object applications and write Web pages using advanced server side programming through servlets and Java server pages. Specific topics include: inner classes, multithreading, reflection, collection classes, Swing, TCP/IP networking, Java data base connectivity (JDBC), remote method invocation (RMI), CORBA (interactive data language), servlets, and Java server pages (JSP).

COMPUTER NETWORKING—also see Local Area Networks

Curriculum addition:

Add a 20 semester credit hour Network Security Administrator Certificate (#0152).

Computer Networking curriculum revisions:

Revise the requirements for the Network Administration Certificate (#0128); total semester credit hours remain the same.

Revise the requirements for the Certified Novell Engineer (CNE) Certificate (#0129); total semester credit hours increase to 32.

Revise the requirements for the Microsoft Certified Systems Engineer (MCSE) Certificate (#0131); total semester credit hours are reduced to 36.

COMPUTER OFFICE TECHNOLOGY

Curriculum revisions:

Change requirements for the A.A.S. in Computer Office Technology (#0301); total semester credit hours remain the same.

COMPUTER SCIENCE

Course revision:

CSC 290
Topics in Computer Science
Change credit:lecture:lab ratio to 1-4:0-4:0-4
Make course repeatable up to three times.

EDUCATION

Curriculum addition:

Add a 62 semester credit hour A.A.S. for Paraprofessional Educators (#0082).

Course additions:

EDN 103 1:1:0
Pre-Clinical Observation in Education
This course provides hands-on experience in local schools through service learning opportunities. The course begins and ends with class meetings to prepare for and reflect upon the pre-clinical experience. Students will be in contact with the instructor during the pre-clinical experience via school visits, individual meetings, and e-mail. This course includes ten hours of service in a local school.
Prerequisite: EDN 101, or concurrent enrollment in EDN 101.

EDN 210 3:3:0
Technology in Education
This course is for education majors and is designed to give students hands-on experience in using technology to find, analyze, organize, present and implement information related to the use of technology in education. Students are provided opportunities to improve their technological fluency and develop their ability to creatively and meaningfully integrate technology into their teaching in today's inclusive classrooms. Students are challenged to analyze the role technology can and should play in education in society and to develop strategies to compensate for the possible digital divide among their students. Students consider the historic interplay of education and new technologies.
Prerequisite: Hands-on experience using a personal computer, or instructor's consent.

Education course additions (cont.)

EDN 260 3:3:0
Methods of Teaching Reading
This course helps students build a repertoire of methods that encompass a balanced, insightful approach to a reading program. These methods address the learning needs and learning styles of all students. Although theoretical frameworks are covered in the course, practical applications for teaching and improving reading are equally addressed. Five hours of tutoring children is included.
Prerequisite: PSY 120 or PSY 201.

ELECTRONICS AND COMPUTER TECHNOLOGY

Curriculum revisions:

Change requirements for the Electronics Technology certificate (#0166); total semester credit hours remain the same.

Change requirements for the Electronics Computer Technician certificate (#0167); total semester credit hours remain the same.

Course additions:

ELT 108 3:2:2
Home Technology Integration
This course, sponsored by the Cisco Learning Institute, focuses on helping students gain knowledge and skills in core competencies such as installation, integration, and troubleshooting, as they relate to the home networking technology industry. Lab equipment and online curricula are used. Students are exposed to a variety of residential subsystems including networking, lighting, structured wiring, HVAC controls, security, and home entertainment. This course helps prepare students for the CompTIA HTI+ Certified Exam.
Prerequisite: ELT 101 or ELT 107 or equivalent.

Fee \$55

ELT 114 3:2:2
Residential Wiring
This course is designed to provide students with the technical skills and knowledge required to safely install, maintain, replace and repair residential wiring and distribution systems conforming to the National Electrical Code. This is a hands-on course in which students use a variety of tools and equipment to complete and troubleshoot residential electrical wiring projects.

Fee \$40

ELT 204 3:3:2
Wireless Technology Integration (WTI)
This is an introduction to wireless technology integration that covers topics for wireless communication and fundamentals of wired and wireless networks with a variety of devices. Subject areas include the study of network protocols and standards, advantages and disadvantages of WLAN, and an overview of installation and testing of wireless networks. Troubleshooting and use of measuring equipment are emphasized in the lab section of the course.
Prerequisite: ELT 130 and LAN 105 or equivalent knowledge.

Fee \$40

Electronics and Computer Technology courses deleted from catalog (but which may be scheduled again in the future):

ELS 101—Basic Electricity – Electronics
ELT 171—NetWare Systems
ELT 241—Netware Systems 5.x

ENGLISH

Course addition:

EGL 235 3:3:0

Studies in Shakespeare

This course has a specific thematic focus, as found in six to eight of the plays of Shakespeare, exclusive of those covered in EGL 234. The plays represent the genres of history, comedy, tragedy and romance, and are studied from a variety of literary, historical and critical perspectives. Videos, recordings and attendance at local performances, when available, enhance classroom study of the material.

Prerequisite: One literature course or consent of instructor.

Course revisions:

EGL 211

Writing for the Web

Change prerequisite to: EGL 101 or equivalent.

Change course description to:

This course focuses on the specialized writing techniques and skills necessary to produce effective communications for digital formats, specifically online hypertext documents for internet and intranet systems. Students learn how to organize and write company Web pages, including product and service descriptions, and training materials that are highly usable and easily navigated by various audiences.

Students must have experience using word processing software and the World Wide Web. This is not a course in HTML coding.

EGL 290

Topics in Literature

Change title to: Topics in English

Change credit:lecture:lab ratio to: 1-4:1-4:0

Change prerequisite to: EGL 101.

Change course repetition to three times

Change course description to:

This course explores selected topics in literature, writing, or journalism. Course content varies and may reflect emphasis on a single author, group of authors, period of literature or literary theme; or a specific writing format, medium, purpose or audience. Students may repeat EGL 290 up to 3 times on different topics for a maximum of 12 credit hours.

Course reinstated in the catalog:

EGL 150 3:3:0

Introduction to Journalism

This course presents the history and continuing role of the newspaper in society. The student gains theory and practice in writing stories, leads, editorials, features and reviews. Copy-reading and make-up are covered, as

well as the particular problems and requirements of local journalism. Students are introduced in a preliminary way to the principles of newspaper design and electronic typesetting.

Prerequisite: EGL 101 or entry-level competency in EGL 101 recommended.

English course withdrawals:

EGL 151—Newswriting

EGL 152—Feature Writing

FACILITIES MANAGEMENT AND ENGINEERING

Curriculum additions:

Add a 32 semester credit hour Facilities Management Certificate (#0368).

Add a 31 semester credit hour Facilities Engineer Certificate (#0369).

Curriculum revisions:

Revise the requirements for the A.A.S. in Facilities Management and Engineering (#0365); total semester credit hours remain the same.

Curriculum withdrawals:

Withdraw the Commercial Facilities Management Certificate (#0366).

Withdraw the Industrial Facilities Management Certificate (#0367).

Course additions:

FME 101 3:3:0

Introduction to Facilities Management and Engineering

This course is a survey type course and discusses the practice and skills needed for facilities management and facilities engineering. It also covers, in general, the topics in which a facilities manager or facilities engineer will need to develop competency.

FME 201 3:3:0

Building Energy Systems

This course is an overview of the electrical and mechanical systems of buildings. Topics included are power and lighting distribution, motor controls, alarm systems, telephone, computer systems, and energy management. Mechanical systems reviewed include HVAC, refrigeration, plumbing, and fire protection. Electrical and mechanical building codes are studied as well as indoor air quality and building security.

Prerequisite: FME 101.

Fee \$30

FME 240 3:3:0

Energy Management and DDC Controls

This course is specific to building automation systems for energy management using DDC controls for HVAC, fire and security systems and control of various equipment remotely from a control computerized system and DDC controls.

Prerequisite: AHR 101 or FME 101 or program coordinator's consent.

Fee \$30

Facilities Management and Engineering course additions (cont.)

FME 251

3:1:15

Facilities Engineering Practicum

This course gives a work experience in which student earns credit while working within an approved business, industrial or institutional firm. Arrangement and credit given are worked out in conjunction with student, facilities engineering coordinators and workplace facility.

Prerequisite: Completion of nine credits from the major requirements for the A.A.S. and/or consent of program coordinator.

Facilities Management and Engineering courses deleted from catalog (but which may be scheduled again in the future):

FME 110—Safety Program Organization & Management

FME 231—Troubleshooting Skills

FME 130—Materials

FME 233—Industrial Electronics

FME 135—Power Transmission

FME 234—Facilities Management

FME 220—Preventive Maintenance

FME 250—Electric Motors and Controls

FIRE SCIENCE TECHNOLOGY

Curriculum addition:

Add a 12 semester credit hour Basics of Fire Fighting Certificate (#0183).

Course revisions:

FIR 122

Fire Fighting Tactics II

Change prerequisite to: FIR 121.

FIR 205

Building Construction

Delete prerequisite

FIR 211

Fire Prevention Principles II

Add prerequisite: FIR 201.

FIR 222

Emergency Medical Technician – Paramedic II

Change course description to:

This course covers topics including medical terminology, general patient assessment, initial management, airway and ventilation, pathophysiology of shock, and general pharmacology. The learning process is enhanced by concurrent laboratory and clinical experience. Students are required to complete a state-specified number of hours of Advanced Life Support (ALS) ambulance ride time.

Fee \$950

FIR 223

Emergency Medical Technician – Paramedic III

Change course description to:

This course covers treatments of medical emergencies involving trauma, burns, respiratory system, endocrine and nervous system, abdominal distress, toxicology, alcohol and drug abuse, infectious diseases and environmental injuries. The learning process is enhanced by concurrent laboratory and clinical experience. Students are required to complete a state-specified number of hours of field internship.

Fire Science Technology course revisions (cont.)

FIR 224

Emergency Medical Technician – Paramedic IV

Change course description to:

This course covers toxicology, behavioral emergencies, major incident response, triage, hazardous material, street gangs and drugs. The learning process is further enhanced by concurrent laboratory, clinical and ambulance experience. Students are required to complete a state-specified number of hours of field internship.

HISTORY

Course additions:

HIS 139

3:3:0

History of the Non-Western World to 1900

This course provides a one-semester survey of the non-western world to the early 20th century. In addition to social, political, and economic developments, attention will be given to the role of intellectual currents, literature, and art in shaping the identity of the peoples studied. Unifying themes such as early modern global networks of trade, the colonial experience, and the role of religion will be used to compare and contrast the experience of various civilizations. At least four major non-western civilizations will be studied, drawn from Asia, the Middle East, Africa, and Latin America.

HIS 207

3:3:0

History of the Ancient World: Rome

This course studies Ancient Rome, from the founding of the city in the eighth century B.C., to the collapse of the West in the fifth century A.D. In addition to an examination of the Roman Conquests, Roman politics and government, and the reasons for the "fall" of Rome, special attention will also be paid to the Roman impact on other peoples and cultures, the origins and spread of Christianity, the emergence of the Byzantine Empire and the Roman Legacy.

HIS 233

3:3:0

History of Latin America to 1825

This course is a survey of Latin American history from the conquests of Mexico and Peru in the sixteenth century until the wars of independence early in the nineteenth century. The course assesses the impact of Spanish colonialism (and to a lesser extent that of Portuguese colonialism) on Native Americans and immigrant settler populations, and outlines the evolving institutional bases of life in colonial Latin America. Specific topics include pre-colonial Native American societies, imperial politics, urbanization, patterns of accommodation and resistance, slavery, race, the role of the Catholic Church, colonial literature, and the collapse of the Spanish colonial empire.

Course description revisions:

HIS 111

United States History to 1877

This course surveys the political, economic, social and cultural development of the United States from discovery through Reconstruction.

HIS 112

United States History from 1877

This course surveys the political, economic, social and cultural development of the United States from the Gilded Age to the present.

History course description revisions (cont.)

HIS 114

African American History: Beginnings to 1864

This course surveys the role of African Americans in U.S. History, from their enslavement in Africa to emancipation. Themes include black African culture, the black diaspora, slave culture, the Americanization of slaves and the Africanization of the South, “free” blacks, slave resistance movements, and the politics and economics of slavery.

HIS 115

African American History: Reconstruction to the Present

This course surveys the role of African Americans in U.S. History, from Reconstruction to the present. Themes include black politics in the New South, Jim Crow, early civil rights organizations, African American participation in World Wars I and II, cultural developments, the Civil Rights movement, the Black Power movement, and government activism.

HIS 120

United States History since 1945

This course will focus on the political, economic, social and cultural development of the United States since 1945.

HIS 131

Western Civilization to 1650

This course surveys the political, economic, social, cultural and intellectual origins of Western civilization from the ancient world to the 17th century.

HIS 132

Western Civilization from 1650

This course surveys the political, economic, social, cultural and intellectual development of Western civilization from the Baroque Era to the present.

HIS 140

History of Contemporary Non-Western Civilizations

This course surveys the historical development of selected non-western cultures since 1945. At least four such cultures will be studied, drawn from Asia, the Middle East, Africa and Latin America.

HIS 211

History of Modern Africa

This course surveys the history of Africa from 1885 to the present. Course themes focus on traditional African cultures, the impact of colonialism, the growth of nationalism, independence movements and challenges facing contemporary Africa.

HIS 221

History of Great Britain and Ireland to 1600

This course surveys the political, economic, social and cultural history of Great Britain and Ireland from the Norman Conquest through the Age of Elizabeth I.

HIS 222

History of Great Britain and Ireland: 1600 to Present

This course surveys the political, economic, social and cultural history of Great Britain and Ireland from the Stuart Dynasty through the present era.

History course description revisions (cont.)

HIS 226

History of The Islamic Middle East in Modern Times

This course surveys the political, economic, social and cultural development of the Islamic Middle East since 1918. A special emphasis is placed on the role of religion as an ongoing theme.

HIS 235

Women in American History

This course examines women's roles and accomplishments throughout the history of the United States.

HIS 236

Women in Western Civilization

This course examines women's roles and accomplishments in Western civilization from prehistory to the present.

HUMANITIES

Course revisions:

HUM 120

Western Culture and the Arts I

Change title to: Western Culture and the Arts: Beginnings through the Middle Ages

Change course description to:

This survey course explores the cultural accomplishments of Western civilization from its beginnings in Mesopotamia through the Middle Ages. The visual arts, music, literature, theater, architecture, and philosophy will all be studied in historical context.

HUM 121

Western Culture and the Arts II

Change title to: Western Culture and the Arts: Renaissance through the 20th Century

Change course description to:

This survey course explores the great artistic and intellectual accomplishments of Western civilization from the Renaissance through the 20th Century. This is an interdisciplinary class emphasizing the visual arts, literature, drama, philosophy, architecture, and music.

HUM 122

Modern Culture and the Arts

Change title to: Contemporary Culture and the Arts

Change course description to:

The emphasis of this course is the culture and arts of the last 50 years. This course is interdisciplinary in nature. It includes literature, music, drama, visual arts, architecture, TV, film, and cultural theory. It also examines the forces that influences the arts and helps students to appreciate and critically evaluate contemporary culture.

HUM 142

Women and Creativity

Change course description to:

This class explores creative work done by women in literature, art, music, film, and philosophy. It may also explore how women's creativity is manifested through the shaping of community and domestic institutions and through domestic arts. The focus may either be historical or contemporary.

HUM 165

Introduction to Non-Western Music

Change title to: Introduction to World Music

Change course description to:

This course is an introduction to world music. Musical performance, instruments, basic music theory, and the cultural significance of music will be emphasized. The music of several Asian, Middle Eastern, and African cultures will be considered.

Humanities course revisions (cont.)

HUM 290

Topics in Humanities

Change credit:lecture:lab ratio to: 1-4:0-4:0-4

Add course repeatability

Change course description to:

This course explores selected topics in music, film, art history, architecture, or any other humanities discipline. Course content varies. Courses may focus on a single artist or composer, a group of artists or composers, a stylistic period, or particular trends during one such period. Representative course titles might include: Mozart's Late Opera, Contemporary American Film, or Chicago Architecture. This course can be repeated on different topics up to three times.

LIBRARY AND INFORMATION SERVICES

Course addition:

LIB 101

2:2:0

Research in the Information Age

This course presents the skills necessary to handle the explosive increase of readily available information. It includes a discussion of the structure and availability of information in various formats and teaches the methods needed to identify, acquire, evaluate, and cite sources of information. Questions about copyright and plagiarism are addressed.

LOCAL AREA NETWORKS (Computer Networking)

Course additions:

LAN 110

3:3:1

Windows Desktop Operating System

This course provides students with the knowledge and skills necessary to install and configure Microsoft Windows Desktop Operating System (OS) software on stand-alone and client computers that are part of workgroup or domain. The course covers the most recent release of Windows. This course prepares students to become Microsoft Certified Professional (MCP). Students also earn credit toward the core credit toward Microsoft Certified Systems Engineer (MCSE) and Microsoft Certified Systems Administrator (MCSA). Prerequisite: LAN 105 or knowledge of the fundamentals of current networking technology, or consent of instructor, coordinator or program chair.

Fee \$40

LAN 111

3:3:1

Windows Server Operating System

This course provides students with the knowledge and skills to install and configure a Windows Server Local Area Network (LAN). The course covers the most recent release of Windows. This is the second course in the Microsoft Certified Systems Administrator (MCSA) and Microsoft Certified Systems Engineer (MCSE) curriculum for Windows Server.

Prerequisite: LAN 110 or LAN 170, or consent of instructor, coordinator or program chair.

Fee \$40

LAN 116

3:3:1

Implementing and Maintaining Windows Network Infrastructure

This hands-on course provides students with the knowledge and skills necessary to implement, configure, manage, and maintain a Windows-based computer to operate in a Microsoft Windows Server network infrastructure. This course covers the most recent release of Windows and is intended for students who are candidates pursuing the systems administrator and systems engineer track, or who are responsible for

implementing, managing, and maintaining server networking technologies. This is the fourth course in the Microsoft Certified Systems Administrator (MCSA) and Microsoft Certified Systems Engineer (MCSE) curriculum for Windows Server.

Prerequisite: LAN 111 or LAN 171 or consent of instructor, coordinator or program chair.

Fee \$40

LAN 117

3:3:1

Planning and Optimizing Windows Network Infrastructure

This course provides students with the knowledge and skills to plan and maintain a Microsoft Windows Server network infrastructure. This course covers the most recent release of Windows and is intended for students who are candidates pursuing the systems administrator and systems engineer track, or who are currently supporting a competitive platform who want to enhance their job skills on Microsoft Windows Server networking technologies. This is the fifth course in the Microsoft Certified Systems Engineer (MCSE), Windows Server curriculum.

Prerequisite: LAN 116 or LAN 172 or consent of instructor, coordinator or program chair.

Fee \$40

LAN 120

3:3:1

Planning, Implementing and Maintaining Windows Active Directory

This course provides students with the knowledge and skills to successfully plan, implement, and troubleshoot a Microsoft Windows Server Active Directory service infrastructure. The course covers the most recent release of Windows. It is appropriate for individuals who are currently supporting a competitive platform and who want to enhance their skills using Windows Server Active Directory. This is the sixth course in the Microsoft Certified Systems Engineer (MCSE), Windows Server curriculum.

Prerequisite: LAN 117 or LAN 172 or consent of instructor, coordinator or program chair.

Fee \$40

LAN 166

2:2:1

Windows Command Line Administration

This course provides students with the knowledge and skills necessary to administer Microsoft Windows Network in a variety of environments from the Command Line or Command Prompt. The course covers the Command Line support for the new DOS-like 32-bit language irrevocably linked to Windows Server that boasts a vast range of functions, commands, and application, using intermediate and advanced tools. This course covers the most recent release of Windows.

Prerequisite: LAN 111, LAN 171, knowledge of the fundamentals of current networking technology, or consent of instructor, coordinator or program chair.

Fee \$30

LAN 181

4:3:2

Fundamentals of Network Security I

This course focuses on the overall security process with particular emphasis on hands-on skills in security policy design and management, security technologies, products and solutions. Students carry out the installation, programming, and maintenance of routers, switches and firewalls. Students cannot receive credit in both LAN 181 and CNA 181.

Prerequisite: Experience with routers/switches and Windows networking, or consent of instructor, coordinator or program chair.

Fee \$40

LAN 182

4:3:2

Fundamentals of Network Security II

This course focuses on advanced security technologies, with an emphasis on skills in router remote access, VPN (virtual private network), PIX Firewall translations and connections. This hands-on course prepares students for installation, maintenance, and programming of routers, switches, and firewalls with emphasis on intrusion detection, monitoring and management. Students cannot receive credit in both CNA 182 and LAN 182.

Prerequisite: CNA 181 or LAN 181 or consent of instructor, coordinator or program chair.

Fee \$40

Local Area Networks course additions (cont.)

LAN 183

3:3:1

Principles of Information Security

This course provides students with a balance between security management and the technical components of security. The course covers the Security Systems Development Life Cycle (SecSDLC). This structured methodology provides a supportive framework to guide students through an examination of the components of the information domain of Information Security Network. This course also assists students in preparation for the appropriate Network or Information Security Certification examinations.

Prerequisite: LAN 111 or LAN 171 or consent of instructor, coordinator or program chair.

Fee \$40

LAN 184

3:3:1

Network Defense and Countermeasures

This course provides students with the knowledge and concepts needed for protecting computers and networks. The course covers intrusion detection, develop a security policy, implement Network Address Translation (NAT) and packet filtering by installing proxy servers, firewalls, and virtual private network (VPNs). The course also assists students in preparation for the appropriate Network or Information Security Certification examinations.

Prerequisite: LAN 111 or LAN 171 or consent of instructor, coordinator or program chair.

Fee \$40

LAN 185

3:3:1

Introduction to Computer Forensics

This course provides students with the knowledge and solid foundation by introducing computer forensics as an entry into the professional field of computer forensics and investigation. The course covers current and past operating systems and a range of computer hardware and forensics software tools. The course also assists students in preparing for the appropriate Network or Information Security Certification examinations.

Prerequisite: LAN 111 or LAN 171 or consent of instructor, coordinator or program chair.

Fee \$40

LAN 201

3:3:1

Designing a Windows Active Directory and Network Infrastructure

This course provides students with the knowledge and skills to design an Active Directory network infrastructure and directory service for a Microsoft Windows Server environment. The course covers the most recent release of Windows. This course is one of the elective examinations that are required in Microsoft Certified Systems Engineer (MCSE), Windows 2003 curriculum.

Prerequisite: LAN 120 or LAN 173 or consent of instructor, coordinator or program chair.

Fee \$40

LAN 203

3:3:1

Designing Security for Windows Network

This course provides students with the knowledge and skills to design a secure network infrastructure, including assembling the design team, modeling threats, and analyzing security risks in order to meet business requirements for securing computers in a networked environment. The course covers the most recent release of Windows. This course is one of the elective examinations that are required for certification in Microsoft Certified Systems Engineer (MCSE), or in Microsoft Certified Systems Administrator (MCSA), or one of the courses for the core examinations for Microsoft Certified Systems Engineer (MCSE) Security Windows curriculum.

Prerequisite: LAN 120 or LAN 173 or consent of instructor, coordinator or program chair.

Fee \$40

Local Area Networks course additions (cont.)

- LAN 205 3:3:1
Implementing and Administering Security in a Windows Network
This course provides students with the knowledge and skills to implement, manage, maintain, and troubleshoot security in a Windows Server network infrastructure. Students learn to plan and configure a Windows Server public key infrastructure (PKI) and plan security templates based on computer role (e.g., SQL Server computer, Microsoft Exchange Server computer, domain controller, Internet Authentication Service (IAS) server, and Internet Information Services (IIS) server). The course covers the most recent release of Windows and is one of the elective examinations that are required in Microsoft Certified Systems Engineer (MCSE), Windows curriculum and Microsoft Certified Systems Engineer (MCSE) Security Windows curriculum.
Prerequisite: LAN 120 or LAN 173 or consent of instructor, coordinator or program chair.
Fee \$40
- LAN 207 3:3:1
Installing, Configuring and Administering Microsoft SQL Server
This course provides students with the knowledge and skills required to install, configure, administer, and troubleshoot the client-server database management system of Microsoft SQL Server. It covers the most recent release of Windows and is one of the elective examinations that are required in Microsoft Certified Systems Engineer (MCSE), Windows curriculum, and also core examination in the Microsoft Database Administration (MCDBA) curriculum.
Prerequisite: LAN 111 or LAN 171 or consent of instructor, coordinator or program chair.
Fee \$40
- LAN 209 3:3:1
Implementing and Managing Exchange Server
This course provides students with the knowledge and skills that are needed to update and support a reliable, secure messaging infrastructure. The infrastructure is used for creating, storing, and sharing information by using Microsoft Exchange Server. This course covers the most recent release of Windows and is one of the elective examinations that are required in Microsoft Certified Systems Engineer (MCSE), Windows curriculum. This course is one of the elective exams that are required for the MCSE and MCSE Messaging candidates on the Windows Server track.
Prerequisite: LAN 111 or LAN 171 or consent of instructor, coordinator or program chair.
Fee \$40
- LAN 210 (formerly LAN 291) 3:3:1
Deploying and Managing Internet Security and Acceleration Server
This course provides students with the knowledge and skills to deploy and manage Microsoft Internet Security and Acceleration (ISA) Server in an enterprise environment. In addition this course is useful for students intending to become Web administrators, network administrators, and security administrators. This course also provides information necessary to pass the Microsoft Certification examination.
Prerequisite: LAN 117 or LAN 172 or consent of instructor, coordinator or program chair.
Fee \$40
- LAN 220 3:3:1
Introduction to Windows Small Business Server (SBS) Administration
This introductory course provides students with the knowledge and skills to install, configure, and manage a Windows Small Business Server (SBS). The course covers the most recent release of Windows Small Business Server.

Prerequisite: LAN 111, LAN 170, or LAN 171, or consent of instructor, coordinator or program chair.
Fee \$40

Local Area Networks course additions (cont.)

LAN 221 3:3:1
Advanced Windows Small Business Server (SBS) Administration
This course provides students with knowledge of the advanced features needed to install, configure, and manage a Windows Small Business Server (SBS). The course covers the most recent release of Windows Small Business Server.
Prerequisite: LAN 220 or consent of instructor, coordinator or program chair.
Fee \$40

Course revisions:

LAN 150
Networking Essentials
Change course number to: 105
Change prerequisite to: CIS 101 or CIS 103 or consent of instructor, coordinator or program chair.

LAN 160
NetWare Administration
Change prerequisite to: LAN 105 or consent of instructor, coordinator or program chair.

LAN 265
NetWare Service and Support
Change prerequisite to: LAN 260 or consent of instructor, coordinator or program chair.

LAN 289
Creating and Managing a Web Server Using IIS
Change credit:lecture:lab ratio to 3:3:1
Change prerequisite to: LAN 111 or LAN 171 or consent of instructor, coordinator or program chair.
Change course description to:
This is another elective course in the Microsoft MCSE test preparation series. Students configure IIS using the Internet Service Manager; establish WWW, SMTP, FTP, and NNTP services; implement Secure Sockets Layer 3.0; authenticate a web site; and add visual servers and directories.
Fee \$40

LAN 291
Deploying and Managing Internet Security and Acceleration Server
Change number to: 210
Change prerequisite to: LAN 117 or LAN 172 or consent of instructor, coordinator or program chair.

MACHINE TECHNOLOGY APPRENTICESHIP

Course revisions:

MTA 207
Advanced Die Design and Engineering I
Change title to: Basic Die Design and Engineering
Delete prerequisite
Change course description to:

This course is designed to provide a working understanding of punch press to die relationships. The design and construction of basic and advanced progressive, inverted, compound, combination, shaving, and coining dies are studied.

Machine Technology Apprenticeship course revisions (cont.)

MTA 208

Advanced Die Design and Engineering II

Change title to: Advanced Die Design and Engineering

Change prerequisite to: MTA 207 is recommended but not required.

Change course description to:

This is a design and engineering course in which students choose a major project to either design a three-to-five station progressive die or a multi-cavity or family mold. The project requires analyzing the piece part drawing; developing a production plan; calculating develop length or part shrinkage; selecting the proper press, die set or mold base; and designing the complete tool.

Machine Technology Apprenticeship courses deleted from catalog (but which may be scheduled again in the future):

MTA 103—Machine Technology

MTA 106—Basic Machine Shop Practice

MTA 107—Intermediate Machine Shop Practice

MTA 220—Basic Precision Sheetmetal/Model Making I

MTA 221—Basic Precision Sheetmetal/Model Making II

MTA 222—Advanced Precision Sheetmetal I

MTA 223—Advanced Precision Sheetmetal II

MTA 224—Basic Machinist I

MTA 225—Basic Machinist II

MTA 226—Advanced Machinist I

MTA 227—Advanced Machinist II

MANAGEMENT AND SUPERVISION

Curriculum revisions:

Revise the requirements for the A.A.S. in Management and Supervision (#0226); total semester credit hours remain the same.

Revise the requirements for the Human Resource Specialist Certificate (#0235); total semester credit hours remain the same.

Course additions:

MGT 205

3:3:0

Organizational Behavior

This course is designed to help students, professionals and managers develop the skills and competencies needed to effectively contribute to an organization. Emphasis is on individual behavior in an organization, the impact of work teams within an organization and organizational systems.

Prerequisite: MGT 117.

MGT 222

3:3:0

Conflict Management

This course provides an introduction to a range of potential positive conflict management processes including active listening and communication skills, principle negotiation, various forms of mediation, arbitration and nonviolent action.

Prerequisite: MGT 117 or consent of instructor.

MGT 280

3:3:0

Human Resources Certification Exam Preparation

This course deals with the theories and concepts necessary to be successful on the PHR and SPHR exam. The course covers industry theory, practical application and test taking experiences.

Prerequisite: Consent of program chair or two years of human resources experience.

Management and Supervision course additions (cont.)

MGT 288 3:3:0

Strategic Management

This course is an integrative learning experience in strategic management focusing on concepts and their application to a variety of business functions. The emphasis is on identifying problems, analyzing solutions, decision-making, and formulating a workable plan. This course is designed as a capstone course for the management curriculum.

Prerequisite: Twelve hours of MGT courses or consent of instructor.

Course withdrawals:

MGT 202 – Negotiations

MGT 221 – Management Simulation

MGT 275 – Labor-Management Relations

MARKETING MANAGEMENT

Curriculum addition:

Add a 21 semester credit hour Nonprofit Advancement Certificate (#0455).

Curriculum revisions:

Revise the requirements for the Professional Selling Skills Certificate (#0263); total semester credit hours remain the same.

Revise the requirements for the A.A.S. in Marketing Management (#0265); total semester credit hours remain the same.

Revise the requirements for the Marketing Management Certificate (#0444); total semester credit hours remain the same.

Revise the requirements for the Sales Management Certificate (#0447); total semester credit hours increase to 18.

Revise the requirements for the Public Relations Certificate (#0458); total semester credit hours remain the same.

Course additions:

MKT 134 3:3:0

Fundraising and Grant Writing

This course offers in-depth exposure to the skills needed to fund the nonprofit organization. It explores how nonprofits secure financial resources to further their missions from individuals, foundations and government sources. The course covers how managers and development professionals of nonprofits generate funding through grant writing, annual giving programs, major gift cultivation, planned giving programs, and special events and benefits.

Prerequisite: MKT 132 and either EGL 101 or placement into EGL 101, or instructor's consent.

MKT 135 1:1:0
Nonprofit Law and Government Relations
This covers legal requirements, tax-exempt status, reporting requirements related to nonprofit management, working with regulatory bodies, interfacing with government funding sources and influencing public policy.
Prerequisite: MKT 132 or instructor's consent.

Marketing Management course additions (cont.)

MKT 136 2:2:0
Financial Management of Nonprofits
This class covers the basic financial issues and budget considerations involved in running a nonprofit organization. Students examine the unique financial issues related to financing and managing nonprofits in healthcare, education, the arts, social service and advocacy.
Prerequisite: MKT 132 or instructor's consent.

MKT 150 3:3:0
Sports Marketing
This course examines the planning, implementing and managing skills required to achieve a successful business tie-in with a sports event. Students develop a strategic marketing plan for a sports event or introduce some other sports-related product to the marketplace.
Prerequisite: MKT 131.

MKT 243 3:3:0
Advanced Publications Workshop
In this course, students get an opportunity to apply public relations and marketing principles to a hands-on experience producing an entertaining and informative public relations publication. Under the direction of the instructor, students develop, research and write content for a new magazine-format publication for Oakton's business department. Students are also exposed to basic concepts related to layout, graphics, photography, production, printing and distribution of the publication. Students gain confidence and strengthen research, writing, editing, planning and coordination skills.
Prerequisite: MKT 240 and CAS 155, or consent of instructor.

MKT 249 3:3:0
Customer Relationship Management
This course focuses on customer relationship management (CRM) and the customer driven, market-based practices that enable a business to attract, satisfy and retain customers profitably. Emphasis is on developing programs that cultivate customer relationships and brand and product loyalty.
Prerequisite: MKT 131.

Course revisions:

MKT 239
Tools and Techniques for Direct Marketing
Change title to: Direct Response Marketing
Add prerequisite: MKT 131.
Change course description to:
This course focuses on the overall strategy development in determining communication channels, message formation and production in direct response marketing. Creating direct response marketing packages, formats, copy strategies and layout are stressed. Students are required to plan and create a direct response marketing campaign.

MKT 240

Public Relations I

Change title to: Public Relations I: Media Relations

Change prerequisite to: MKT 131 and either EGL 101 or placement into EGL 101.

Change course description to:

Created as a beginning course in Public Relations, this course focuses on the fundamentals of PR techniques, including writing press releases, working with the media, developing a media relations plan, and using appropriate style. Ways to identify and communicate with an organization's various publics are also covered. The approach is from a marketing strategic standpoint in developing the skills and knowledge for handling the problems and tasks of the public relations specialist.

Marketing Management course revisions (cont.)

MKT 244

Public Relations II

Change title to: Public Relations II: Special Events

Change prerequisite to: MKT 240.

Change course description to:

Created as an advanced course in Public Relations, this course focuses on the expanded role of today's PR professional, including various components of integrated marketing. Utilizing techniques learned in Public Relations I, students combine marketing fundamentals with PR principles and learn how to acquire sponsorship, organize and promote a special event, use the Internet, and handle crisis communication.

MKT 251

Practicum

Change prerequisite to: Completion of 9 hours of MKT courses or consent of program chair.

Course withdrawal:

MKT 227 – Product Management

MEDICAL LABORATORY TECHNOLOGY—also see Pharmacy Technician certificate

Course addition:

MLT 125

4:4:0

Pharmacy Technician

This course is designed to provide students with the knowledge and skills needed to become a pharmacy technician. This is a concentrated 60-hour course that is geared towards all students, ranging from those with no prior pharmacy experience to healthcare professionals who are interested in strengthening their current skills. This class will introduce students to various pharmacy practice settings and will intensively cover drug classes, basic physiology, drug interactions, and daily pharmacy operation.

Prerequisite: High school diploma or GED.

Fee \$645

NATURAL SCIENCE

Course withdrawal:

NSC 109—Introduction to Food Science

NURSING

Curriculum revision:

Change title of NCLEX-RN Preparation for Graduate Nurses Certificate (#0325) to: Nursing Practice Review Certificate.

Course revision:

NUR 261

Nursing Practice Review

Change course description to:

This course covers a review of basic professional nursing practice for the graduate nurse. It provides both didactic and clinical experience to meet state requirements. Knowledge of professional nursing practice is assumed and necessary to be successful in the course. This course will satisfy the requirement for remedial and refresher course described by the Illinois Department of Professional Regulation (IDPR). Student may repeat NUR 261 one time, as it is a review.

PHARMACY TECHNICIAN—also see Medical Laboratory Technology

Curriculum addition:

Add a 4 semester credit hour Pharmacy Technician certificate (#0282).

PHILOSOPHY

Course revisions:

PHL 105

Logic

Change course description to:

Logic is the study of the principles of correct reasoning. Students learn to analyze the structure of arguments, to evaluate both inductive and deductive arguments, and to recognize common errors in reasoning. Logic provides students with the tools to critically evaluate persuasive language encountered in everyday life, in the mass media, and in academic texts.

PHL 106

Ethics

Change course description to:

Ethics is the branch of philosophy concerned with meaning, value, and moral responsibility in human life. Students examine at least four conflicting theories about what constitutes moral conduct and social justice. Students also learn to apply these theories to individual moral dilemmas and to contemporary social issues such as world hunger or the environmental crisis.

PHL 201

Philosophy of Religion

Change course number to: 240

Delete prerequisite

PHL 205

World Religions

Change course description to:

This course offers an introduction to the philosophies, traditions, and histories of major world religions. Since this course takes a global perspective, at least six of the following religions are studied: Hinduism, Buddhism, Sikhism, Jainism, Judaism, Christianity, Islam, Confucianism, Daoism, Shinto, the indigenous religions of North America, Africa, or pre-Christian Europe.

PHL 230

History of Ancient and Medieval Philosophy

Change title to: Ancient and Medieval Philosophy

Change course description to:

This course takes a historical overview of philosophical inquiry from the first theological and scientific steps of the pre-Socratic philosophers, through the classic works of Plato and Aristotle, and on to the works of medieval philosophers such as Avicenna, Averroes, Maimonides, and Aquinas.

PHL 231

History of Modern Philosophy

Change title to: Modern and Contemporary Philosophy

Change course description to:

This course focuses on the last 350 years of Western philosophy. Students are introduced to the work of at least five major philosophers such as Hume, Kant, Hegel, Marx, Kierkegaard, Nietzsche, James, Sartre, Rawls, Foucault, De Beauvoir, and Habermas. Philosophical ideas about the nature of reality, knowledge, morality, and social justice are explored.

Philosophy course withdrawal:

PHL 125—Philosophy of Technology

PHYSICAL EDUCATION

Course withdrawal:

PED 125—Ice Skating

PHYSICAL THERAPIST ASSISTANT

Curriculum revision:

Revise the requirements for the A.A.S. in Physical Therapist Assistant (#0360); total semester credit hours increase to 68.

Course additions:

PTA 170

1:1:0

Human Aging

This course examines current concepts of the normal physical changes which occur in the adult human over time. Emphasis is on the physiological and structural effects of aging on the major organs and systems of the body. Application of scientific findings to the health and wellness of older individuals is discussed. Students cannot receive credit for both PTA 170 and BIO 170.

Prerequisite: A previous course in Biology or Health Sciences is recommended.

PTA 211

2:2:0

Neurology for the PTA

This course is an introduction to the neurology that forms the basis of neurological treatment approaches utilized by the PTA. Brain and spinal anatomy, neurodevelopmental stages and motor learning are emphasized. Students are introduced to the major neurological rehabilitation treatment approaches.

Prerequisite: PTA 162 with minimum grade of C; concurrent enrollment in PTA 207, PTA 210, and PTA 241.

Course revisions:

PTA 212

Joint Mobilization

Change title to: Advanced Manual Techniques

Change course description to:

This course advances the student's knowledge of various manual techniques including the theory and practice

of peripheral joint mobilization, and soft tissue mobilization as suitable for the Physical Therapist Assistant. Lecture and laboratory sessions focus on anatomy, assessment and treatment techniques.

PTA 230

Advanced Procedures for the PTA

Change credit:lecture:lab ratio to 3:2:3

Change prerequisite to: PTA 207, PTA 210, and PTA 211 with minimum grades of C; PTA 261 or concurrent enrollment; concurrent enrollment in PTA 220 and PTA 212.

Change course description to:

Students learn to implement treatment programs for patients with specific diseases and disabilities. Included are techniques used for neurological disorders, amputees, prosthetics and orthotics, pediatrics, chest physical therapy and cardiac rehabilitation.

REAL ESTATE

Course addition:

RES 290

1-4:0-4:0-4

Topics in Real Estate

This course is designed to meet the special interest needs of real estate students and local business organizations. Topics will be offered for variable credit from one to four semester credit hours. Students may repeat RES 290 up to three times on different topics for a maximum of nine semester credit hours.

Fee varies

Course revisions:

All fees for Real Estate (RES) courses should be \$15.

RES 131

Transactions in Real Estate

Change title to: Real Estate Transactions

RES 143

Real Estate Appraisal Methods

Revise prerequisite to: RES 131 or RES 140 or Associate Appraiser's license or consent of program coordinator.

RES 144

Principles of Capitalization

Revise prerequisite to: RES 131 or RES 140 or Associate Appraiser's license or consent of program coordinator.

RES 151

Advanced Real Estate Transactions

Change title to: Advanced Principles 2000

Delete prerequisite

Delete prerequisite for the following RES courses:

RES 202

Real Estate Contracts and Conveyances

RES 205

Commercial and Industrial Real Estate

RES 203

Real Estate Brokerage Administration

RES 206

Real Estate Investments

RES 204

Real Estate Finance

RES 209

Property Management in Real Estate

RUSSIAN

Course addition:

RUS 105 3:2:2

Conversational Russian

Designed to provide conversational practice in developing oral facility, this course offers specially designed exercises in pronunciation, stress and rhythm and encourages vocabulary development. Oral presentations and class discussion of life in Russia are included.

Prerequisite: RUS 102 or equivalent background.

Fee \$15

WORLD WIDE WEB

Course additions:

WWW 141 3:3:1

Web Authoring Software

This course introduces students to a popular HTML editor. Topics include learning how to lay out Web pages using layers, tables, style sheets, frames, rollovers and forms. Students build a Web site and learn how to upload files to a remote server. The course includes an introduction to the DHTML and animation capabilities of the Web authoring software.

Prerequisite: General knowledge of basic HTML is recommended.

Fee \$25

WWW 161 4:3:2

Macromedia Flash

Flash is the tool of choice for creating high-impact Web sites. In this course, students are introduced to the Flash authoring environment and the basic features and functions of the Flash application. Included are activities using the program's tools and modifiers, color capabilities, text formatting, sound importing methods, bitmap optimization capabilities, symbols and instances, library, layers, timelines, and action scripting.

Prerequisite: WWW 131, working knowledge of HTML, or consent of instructor, coordinator or department chair.

Fee \$25

End of SECTION II

(COURSE & CURRICULUM CHANGES INCLUDED IN 2004-2005 CATALOG)

SECTION III

COURSE & CURRICULUM CHANGES NOT INCLUDED IN 2004-2005 CATALOG [APPROVED AFTER CATALOG WENT TO PRESS]

ARABIC

Course addition:

ARB 201 4:3:2
Intermediate Arabic I
Designed to continue the development of basic Modern Standard Arabic skills, this course is a general review and expansion of beginning grammar, along with conversation, vocabulary development, readings, and writing exercises that focus on life in modern Arabic-speaking countries.
Prerequisite: ARB 102 or equivalent background.

Fee \$15

BIOLOGY

Course addition:

BIO 240 2:0:4
Interdisciplinary Undergraduate Laboratory Research
This course is designed to provide students with undergraduate research experience. It is an interdisciplinary course that is co-listed with CHM 240 and is team-taught by faculty from several disciplines. Students will actively participate in a research experience that involves performing experiments, collecting data, analyzing results, interacting with other students and professors in their research, reading and critiquing research articles in the same area that they are performing research and presenting their results at the end of the semester. This course can be repeated once for credit.
Prerequisite: Consent of instructor.

Fee \$50

CHEMISTRY

Course addition:

CHM 240 2:0:4
Interdisciplinary Undergraduate Laboratory Research
This course is designed to provide students with undergraduate research experience. It is an interdisciplinary course that is co-listed with BIO 240 and is team-taught by faculty from several disciplines. Students will actively participate in a research experience that involves performing experiments, collecting data, analyzing results, interacting with other students and professors in their research, reading and critiquing research articles in the same area that they are performing research and presenting their results at the end of the semester. This course can be repeated once for credit.
Prerequisite: Consent of instructor.

Fee \$50

COMPUTER-AIDED DESIGN

Course revisions:

CAD 116
Basic AutoCAD
Delete prerequisite.

Computer-Aided Design course revisions (cont.)

CAD 117
Intermediate AutoCAD
Change prerequisite to: CAD 116 or instructor's consent.

CAD 118
Advanced AutoCAD
Change prerequisite to: CAD 117 or instructor's consent.

CAD 223
Introduction to 3D Studio MAX
Delete prerequisite.

CAD 230
Introduction to SolidWorks
Delete prerequisite.

CAD 240
Introduction to Autodesk Inventor
Delete prerequisite.

COMPUTER INFORMATION SYSTEMS

Course addition:

CIS 090 2:2:1
Computers for New Users
This course is designed for the student who has little or no experience in operating a computer – its hardware and commonly used software applications. The student learns basic computer terminology; how to start the computer, identify the screen elements; manage files and folders on a secondary storage devices; create, format, edit, save, and print documents; create, format, edit, chart, save, and print spreadsheets; send, receive, and attach a file to email; and search the Internet.

Fee \$15

Course revisions:

CIS 116
Introduction to the MS-Windows Operating System
Change credit:lecture:lab ratio to 2:2:1
Change course description to:

This course presents students with instruction in the use of the Microsoft Windows operating system for personal computers. Students develop a theoretical and hands-on understanding of the Windows environment and how it functions as an operating system. Students learn such functions as how to run multiple applications simultaneously, file systems, disk optimizations, perform file and folder operations efficiently, exposure to the Windows registry, transfer data between applications, customize the environment, using utilities to troubleshoot, and installation issues.

Computer Information Systems course revisions (cont.)

CIS 117

Introduction to the MS-DOS Operating System

Change title to: Introduction to the MS-DOS (Command Line) Operating System

Change prerequisite to: Introductory personal computer coursework or comparable work experience or consent of instructor, coordinator or department chair.

Change course description to:

Knowledge of MS-DOS allows the user to enhance and optimize the performance of computers and support programs running under the DOS platform in businesses and by individuals. The student learns operating systems concepts and the DOS commands to manage files; troubleshoot system, software, and hardware problems; configure legacy devices; develop and maintain compatibility with other network operating system platforms; boot a computer when Windows OS is not functioning; and install, configure, and troubleshoot network problems. This course is a "hands-on" course which will be taught in a computer lab.

COMPUTER NETWORKING—also see Local Area Networks

Curriculum revisions:

Revise the requirements for the Network Administration Certificate (#0128); total semester credit hours increase to 28.

Revise the requirements for the Certified Novell Engineer (CNE) Certificate (#129); total semester credit hours increase to 33.

Revise the requirements for the Microsoft Certified Systems Engineer (MCSE) Certificate (# 0131); total semester credit hours increase to 37.

ELECTRONICS AND COMPUTER TECHNOLOGY

Curriculum addition:

Add a 9 semester credit hour Home/Office Technology Integrator Certificate (#0161).

ENGINEERING

Course revision:

ENG 220

Engineering Circuit Analysis

Change credit:lecture:lab ratio to 4:3:2

Change course description to:

This course is a complete introduction for all engineering majors requiring linear circuit analysis. Topics include circuit elements, resistive circuits, nodal and loop analysis, equivalence and superposition, capacitance and inductance, analysis of transient circuits, steady-state AC and power analysis. Lab work will be incorporated to familiarize the student with the use of measuring equipment and analysis of resulting data in the comparison of actual and theoretical circuits.

FINANCIAL SERVICES

Course additions:

FIS 230 3:3:0

Advanced Fundamental Analysis

This is an advanced course which requires a basic understanding of macroeconomics and the financial markets. This course examines the stock and bond markets and their relationship to corporations and its investors. Emphasis is placed on the time value of money, the definition of value, the basic characteristics of common stock, the relationship between risk and return, and calculation of a stock's expected return. Several different investment alternatives and their characteristics are addressed. Actual market conditions and current events are incorporated into the classroom.

Prerequisite: FIS 101 or FIS 102 or FIS 237 or consent of instructor or chairperson.

FIS 239 1:1:0

Advanced Options Markets

This is an advanced course that requires an advanced understanding of put and call options. Emphasis is on the relationship of several individual options to others of the same class. Actual market conditions strategies are explored.

Prerequisite: FIS 101 or FIS 102 or FIS 237 or consent of instructor.

HEALTH INFORMATION TECHNOLOGY

Curriculum revision:

Revise requirements for the Medical Transcription Certificate (#0286); total semester credit hours remain the same.

Course revisions:

HIT 101

Introduction to Medical Transcription I

Change title to: Introduction to Medical Transcription

Change credit:lecture:lab ratio to 4:3:2

Change course description to:

This course is designed to develop speed and accuracy in transcription of correspondence and medical reports with physician-dictated media organized by medical specialty. Associated pharmacy vocabulary is integrated in the course by body system. Grammar and punctuation review, editing and proofreading, the efficient use of medical references and other resources are studied in the course. The course includes practical experience in transcription for medical offices and clinics.

HIT 102

Advanced Medical Transcription

Change credit:lecture:lab ratio to 4:3:2

Change prerequisite to: HIT 101 and HIT 104 with minimum grades of C or consent of instructor.

Health Information Technology course revisions (cont.)

HIT 151

Practicum: Medical Transcription

Change title to: Advanced Surgical and Specialty Transcription

Change prerequisite to: HIT 102 with minimum grade of C or consent of instructor.

Change course description to:

This course is designed to increase speed and accuracy by increasing proficiency in surgical report transcription. Practical experience is provided in advanced specialty and general surgical transcription.

HISTORY

Course additions:

HIS 121

3:3:0

History of the Vietnam War

This course examines the history and politics of the Vietnam War, beginning with the war between the French and the Vietnamese following World War II and ending with the defeat of the South by the North in 1975.

HIS 227

3:3:0

History of the Arab-Israeli Conflict

This course is a survey of the Arab-Israeli conflict from the beginnings of Zionist immigration into Palestine up to the present.

LOCAL AREA NETWORKS (Computer Networking)

Course revisions:

LAN 155 (course description change *only* is reflected in the catalog)

Managing a Microsoft Network

Change course number to: 114

Change title to: Managing a Windows Server Operating System

Change credit:lecture:lab ratio to 4:3:2

Change prerequisite to: LAN 111 or consent of the instructor, coordinator or department chair

Change course description to:

This course prepares a network professional for the challenges faced in managing and supporting a Microsoft Windows Network and prepares students for MCSA certification.

LAN 165

TCP/IP

Change the credit:lecture:lab ratio to 3:3:1

Change the prerequisite to: LAN 105 or consent of instructor, coordinator or department chair.

MANUFACTURING TECHNOLOGY

Curriculum revisions:

Change the requirements for the A.A.S. in Manufacturing Technology (#0274); total credit hours remain the same.

Change the elective requirements within the Manufacturing Technology Certificate (#0271); total credit hours increase from 31 to 32.

Manufacturing Technology course revisions:

MFG 142
CNC Setup and Operation
Delete prerequisite.

MFG 144
Introduction to CNC
Delete prerequisite.

MFG 240
Programmable Controllers (PLC)
Change prerequisite to: Knowledge of basic electricity is required.

MFG 250
Advanced PLC/Automation Applications
Change prerequisite to: MFG 240.

MATHEMATICS

Course revisions:

MAT 102
Mathematics for Allied Health
Change credit:lecture:lab ratio to 2:2:0
Change course description to:

This course covers common mathematics requirements for Allied Health Sciences. It includes a brief review of fractions, decimals, percents, ratio and the International System of Measurement (Metric). Other topics covered include apothecary and household systems, system conversions and reading and calculating medication doses. This course incorporates the use of technology when appropriate.

MAT 111
Business and Consumer Mathematics
Change course description to:

This course reviews arithmetic and introduces algebraic techniques for students pursuing Oakton degrees and certificates in business related fields. Topics include profit and loss, interest, amortization, installment transactions, percentage, discount, taxes, depreciation and statistics. Calculators and spreadsheets will be used where appropriate.

MAT 114
Applied Mathematics I
Change course description to:

This course reviews and extends skills in arithmetic, elementary algebra, geometry and scientific notation for students pursuing Oakton degrees and certificates in technological fields. Problems are drawn from the areas of technology, including electronics, architecture, facilities operation, fire science and building energy systems.

POLITICAL SCIENCE

Course addition:

PSC 111 3:3:0
Political Parties and American Politics
This course examines the historical development and modern status of political parties and the role they play in the American political process.

PHYSICAL EDUCATION

Course addition:

PED 205 2:2:0
Introduction to Elementary School Physical Education Curriculum and Methods
This course is designed to introduce prospective educators to contemporary curriculum models, materials, and activities used in elementary school physical education. Teaching methods, styles, and planning, as well as child growth in psychomotor, cognitive, and social domains will be examined.

PHYSICAL THERAPIST ASSISTANT

Course addition:

PTA 280 1:1:0
PTA Licensing Exam Review
This course will provide the student with a systematic review of PTA practice in preparation for the PTA licensing exam. An example computer-based licensing exam will be provided at the end of the course.
Prerequisite: Graduate of associate degree PTA program who meets the requirement for licensure in Illinois.

WORLD WIDE WEB

Course revision:

WWW 181
Client Scripting
Change title to: Web Scripting
Change prerequisite to: CIS 105 and WWW 171 with a grade of C or better, or consent of instructor, coordinator or department chair.
Add repeatability
Change course description to:
During this combination hands-on and lecture course, students will become familiar with developing web applications with JavaScript, PHP, XML, or another contemporary web language. Students will learn to enhance web pages using interactive features, manipulate built-in objects, and validate and process forms. This course can be repeated on different topics up to three times for up to twelve credits.

