



OAKTON COMMUNITY COLLEGE

ACADEMIC BRIEFING

SPRING 2007

1600 East Golf Road
Des Plaines, IL 60016

Phone: 847-635-1871
Fax: 847-635-1997

Trudy Bers
tbbers@oakton.edu
Executive Director of Research,
Curriculum and Planning

Marilyn Davis
mdavis@oakton.edu
Senior Executive Assistant
to the Vice President for Academic Affairs

The Office of Research, Curriculum and Planning is in its 18th 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 (2007-2008) academic year.

[SECTION I Corrections/Updates to the 2007-2008 Catalog..... Page 2](#)

[SECTION II Course & Curriculum Changes Included in the 2007-2008 Catalog Pages 3 – 16](#)

[SECTION III Course & Curriculum Changes Not Included in the 2007-2008 Catalog Pages 17 – 23](#)



SECTION I

CORRECTIONS/UPDATES: 2007-2008 CATALOG

Page 217 Course title for ART 250 should be Computer Art.

Page 218 Course title for ART 251 should be Advanced Computer Art.

SECTION II

COURSE & CURRICULUM CHANGES INCLUDED IN 2007-2008 CATALOG

ACCOUNTING

Course revision:

ACC 170
Payroll Tax Accounting
Change course description

AIR CONDITIONING, HEATING, AND REFRIGERATION TECHNOLOGY

Curriculum note:

The 61-credit-hour A.A.S. in Air Conditioning, Heating, and Refrigeration Technology (# 0060) was returned to the catalog.

Course revision:

AHR 204
Air Distribution Systems (Design)
Change prerequisite to: Recommended: AHR 101.

ART

Course additions:

ART 256 3:0:6
Advanced Graphic Design
Course covers advanced techniques of vector drawing. Content includes a broader and deeper exploration of artistic communication and design, as well as the production process of vector drawing. Prerequisite: ART 224.

Fee \$75

ART 257 3:0:6
Advanced Masking and Compositing
Course presents techniques used in creating complex selections and masks with Adobe Photoshop to produce creative composite images – from realistic to abstract. Techniques include the creation, manipulation and output of images via inkjet printer to a variety of art papers using photographs, other original art and found objects that will be scanned into the computer. Topics include the aesthetics of image manipulation, both in the context of the student's development of style and from an historical perspective, and the legal, moral and social issues of commercial and fine arts applications of photographic electronic imaging. Prerequisite: ART 216 or consent of instructor.

Fee \$75

ART 277 3:0:6
Color Correction for Photographers
Course focuses on the use of Color Management to get consistent color from input through editing through output and color correction techniques. Topics include creation and use of .icc color profiles for scanners,

digital cameras, monitors, and inkjet printers; choosing hardware, types of ink, using art papers, proofing, and related techniques. Prerequisite: ART 216.

Fee \$75

Course revisions:

ART 216

Photographic Electronic Imagery

Change title to: Digital Imaging

Add recommendation: ART 115.

ART 217

Advanced Photographic Electronic Imagery

Change title to: Advanced Digital Imaging

Change prerequisite to: ART 216 or consent of instructor.

ART 259

Web Graphics, Animation and Multimedia

Change prerequisite to: ART 216 or consent of instructor.

BIOLOGY (also see Natural Science)

Course addition:

BIO 222

3:3:0

Pathophysiology and Human Disease

Course analyzes and compares human diseases by studying pathophysiology, histopathology, and the impact of disease on cellular metabolism. Content covers an introduction to pathophysiology and human disease, and is intended primarily for health career students. Prerequisite: BIO 132.

Fee \$15

CHINESE

Course addition:

CHI 105

3:2:2

Conversational Chinese

Course provides practice in conversational Mandarin Chinese to develop oral facility. Content includes specially designed exercises in pronunciation, tones, and vocabulary development. Oral presentations and class discussions of life in China. Prerequisite: CHI 102 or consent of instructor.

Fee \$20

COMPUTER-AIDED DESIGN

Course additions:

CAD 140

4:3:2

CAD Introduction to Building Systems – HVAC

Course in CAD for Facilities Management or Facilities Engineering focuses on Heating, Ventilation, Air Conditioning (HVAC), and fire protection systems. Course covers layout and creation of computer-generated models as they apply to building's mechanical systems. Topics include fundamentals of the development of construction drawings using CAD for HVAC, and fire protection systems. (Course does not include engineering aspects of design but only the layout and drafting using CAD.) Students cannot receive credit for both CAD 140 and FME 140.

Fee \$75

CAD 220 4:3:2
 CAD Introduction to Building Systems – Revit
 Revit enables students to create full 3D architectural project models and place them in working drawings. Class focuses on the basic tools that the majority of users will need to work with. Topics include creating floor plans, adding views, adding various building components, and creating sheets for plotting.
 Recommended: Knowledge of CAD drafting.
Fee \$75

COMPUTER APPLICATION SOFTWARE

Course withdrawal:

CAS 221
 Desktop Scanning

COMPUTER APPLICATIONS FOR BUSINESS

Curriculum revision:

For the A.A.S. in Computer Applications for Business (# 0301), change one of the options within the course requirements; total semester credit hours remain the same.

Course additions:

CAB 128 1:1:1
 Word Core Certification Preparation
 Course offers an intensive review of the methods and techniques which should be on the Microsoft Core Certification Exam for Word 2003. This will include taking actual sample exam questions under both an untimed and timed environment. Prerequisite: Recent completion of CAB 125 or consent of instructor.
Fee \$15

CAB 138 1:1:1
 Excel Core Certification Preparation
 Course offers an intensive review of the methods and techniques which should be on the Microsoft Core Certification Exam for Excel 2003. This will include taking actual sample exam questions under both an untimed and timed environment. Prerequisite: Recent completion of CAB 135 or consent of instructor.
Fee \$15

CAB 150 2:2:1
 Visio Fundamentals
 Comprehensive course covering the features and applications of Microsoft Visio. This software creates graphical diagrams to communicate information that supplements text and numbers within business and technical documents. Prerequisite: Computer experience using software that runs in Microsoft Windows.
Fee \$15

CAB 238 1:1:1
 Excel Expert Certification Preparation
 Course offers an intensive review of the methods and techniques which should be on the Microsoft Expert Certification Exam for Excel 2003. This will include taking actual sample exam questions under both an untimed and timed environment. Prerequisite: Recent completion of CAB 235 or consent of instructor.
Fee \$15

Course revision:

CAB 281
Software for Graphic Design
Change course description

COMPUTER OFFICE TECHNOLOGY

Course revision:

COT 102
Document Format Review
Change prefix and number to CAB 105
Change course description

Course withdrawal:

COT 116
Electronic Computations

COMPUTER SCIENCE

Course revisions:

CSC 155
C++ Computer Science I
Change recommendation to: MAT 120.

CSC 156
Java Computer Science I
Change recommendation to: MAT 120.

CSC 171
C Programming for Engineers
Change title to: C++ Programming for Engineers
Change recommendation to: MAT 250, CSC 170 or concurrent enrollment in CSC 170.
Change course description

CSC 172
FORTRAN90 Programming for Engineers
Change title to: FORTRAN Programming for Engineers
Change recommendation to: MAT 250, CSC 170 or concurrent enrollment in CSC 170.
Change course description

CSC 173
Java Programming for Engineers
Change recommendation to: MAT 250, CSC 170 or concurrent enrollment in CSC 170.
Change course description.

CSC 240
C++ Data Structures
Change recommendation to: MAT 140, CSC 155 or CSC 171.
Change course description

CSC 241

Java Data Structures

Change recommendation to: MAT 140, CSC 156 or CSC 173.

Change course description

CSC 255

Objects and Algorithms

Change recommendation to: MAT 144, CSC 240 or CSC 241.

Course withdrawals:

CSC 110

Fundamentals of Computing

CSC 115

Computer Applications and Business System Concepts

CSC 202

C/UNIX Programming

COMPUTERS AND INFORMATION SYSTEMS

Curriculum revisions:

For the A.A.S. in Computer Programmer (# 0120), change the requirements; total semester credit hours decrease to 62.

For the A.A.S. in Computers and Information Systems (# 0121), revise the requirements; total semester credit hours decrease to 62.

For the Computer Programmer Certificate (# 0124), change the requirements; total semester credit hours increase to 35.

For the Visual Basic Programmer Certificate (# 0134), change the requirements; total semester credit hours increase to 38.

For the Management of Information Systems (MIS) Certificate (# 0145), change the requirements; total semester credit hours remain the same.

Course addition:

CIS 180

4:3:2

Introduction to Visual Basic .NET Programming

Course introduces programming using the Visual Basic .NET programming language to solve business-related problems. Content includes program development and design, object-oriented programming, screen design, structured programming techniques, and event-driven programming using objects. Programming assignment concepts include arithmetic calculations, decision making, looping, soft and hard copy display, subroutines and functions, data validation, working with arrays, introductory concepts of file creation and data retrieval and accessing, updating, and querying data in a database. Recommended: CIS 101 or CIS 103 or comparable computer knowledge; CSC 155 or CSC 156 or comparable programming knowledge.

Fee \$45

Course revisions:

CIS 108

Visual Basic for Applications

Change recommendation to: Recommended: CIS 101 or CIS 103, ability to manage files using Windows, and MAT 052 or one year of high school algebra or equivalent.

CIS 113

Introduction to Visual Basic Programming

Change title to: Introduction to Programming Using Visual Basic .NET

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

Change course description

Change prerequisite to: Recommended: CIS 101 or CIS 103 or comparable computer knowledge and one year of high school algebra or equivalent.

CIS 114

Introduction to C# Programming

Change number to 227

Change title to: C# Programming

Change prerequisite to: Recommended: CIS 113 or CSC 155 or CSC 156 or comparable programming knowledge.

CIS 123

Introduction to COBOL Programming

Change recommendation to: Recommended: CIS 101 and CSC 155 or CSC 156 or comparable programming knowledge.

CIS 209

Database Programming for PCs

Change recommendation to: Recommended: CAB 140 or comparable knowledge of database software.

CIS 210

Visual Basic Programming for Files and Databases

Change title to: Visual Basic .NET Programming for Files and Databases

Change recommendation to: Recommended: CIS 180 and CAB 140, or consent of instructor, department coordinator or chair.

CIS 213

Advanced Topics in Visual Basic Programming

Change title to: Advanced Topics in Visual Basic .NET Programming

Change course description

Change recommendation to: Recommended: CIS 180 or comparable programming knowledge or consent of instructor, department coordinator or chair.

EARLY CHILDHOOD EDUCATION

Curriculum revisions:

For the A.A.S. in Early Childhood Education (# 0070), change the requirements; total semester credit hours remain the same.

For the Early Childhood Education Certificate (# 0069), change the requirements; total semester credit hours remain the same.

Course revision:

ECE 257
Practicum I
Add ECE 107 to the prerequisite courses.

ECONOMICS

Course revisions:

ECO 201
Principles of Economics I
Change title to: Principles of Macroeconomics

ECO 202
Principles of Economics II
Prerequisite: ECO 201
Change title to: Principles of Microeconomics
Delete prerequisite

EDUCATION

Curriculum revisions:

For all of the A.A.T. degrees, change the graduation requirement to be a minimum GPA of 2.5. Other Associate degrees at the College require a minimum GPA of 2.0.

For the A.A.T. in Early Childhood Education (# 0543) only, increase the number of career courses to be applied for the degree from 7 to 16, which is consistent with the current curriculum configuration.

ELECTRONICS AND COMPUTER TECHNOLOGY

Curriculum revision:

For the A.A.S. in Electronics and Computer Technology (# 0165), add “RFD courses” to those totaling a minimum of 8 elective credits; total semester credit hours remain the same.

ENGLISH

Course note:

EGL 110, Effective College Reading, was returned to the catalog.

Course revision:

EGL 102
Composition II
Change prerequisite to: EGL 101 with minimum grade of C.

FACILITIES MANAGEMENT AND ENGINEERING

Course addition:

FME 140

4:3:2

CAD Introduction to Building Systems – HVAC

Course in CAD for Facilities Management or Facilities Engineering focuses on Heating, Ventilation, Air Conditioning (HVAC), and fire protection systems. Course covers layout and creation of computer-generated models as they apply to building's mechanical systems. Topics include fundamentals of the development of construction drawings using CAD for HVAC, and fire protection systems. (Course does not include engineering aspects of design but only the layout and drafting using CAD.) Students cannot receive credit for both FME 140 and CAD 140.

Fee \$75

Course note:

FME 105, Blueprint Reading, was returned to the catalog.

FIRE SCIENCE TECHNOLOGY

Course addition:

FIR 290

1-6:0-6:0-1

Topics in Fire Science Technology

Course covers a variety of different topics during different semesters. Topics will be selected from among current advances in fire science technology. Typical course concentrations might be Fire Officer Training III or Hazardous Materials and Terrorist Incident Response. Check with the instructor and the latest college class listings for details. The course may be repeated twice. Prerequisite: Varies depending on specific topic.

Fee varies

GRAPHIC DESIGN (also see ART)

Curriculum revisions:

For the A.A.S. in Graphic Design (# 0370), change the requirements; total semester credit hours remain the same.

For the Animation and Multimedia Certificate (# 0371), change the requirements; total semester credit hours remain the same.

For the Web Graphic Page Design Certificate (# 0372), add EGL 211 to the 3-credit elective options; total semester credit hours remain the same.

For the Photography Certificate (# 0373), change the requirements; total semester credit hours remain the same.

For the Game Development Certificate (# 0374), change the requirements; total semester credit hours remain the same.

Course addition:

GRD 160

3:2:2

Fundamentals of Digital Imaging using Photoshop Elements

Course covers the fundamental principles of digital imaging, including production, manipulation and output of digital images, and basic elements of design. High quality images will be produced from stock imaging and scanning from film and flat artwork. Course is designed for students who seek a foundation for ART 216 and those who are preparing to work in the photography/design field as medical photographers, wedding photographers, and production artists, who will not need the more extensive study of Photoshop and digital imaging provided in ART 216.

Fee \$75

HEALTH INFORMATION TECHNOLOGY

Course prerequisite/recommendation revisions:

HIT 113

ICD-9-CM Coding for the Physician Office

Prerequisite: HIT 104 with minimum grade of C, or concurrent enrollment, or knowledge of medical terminology as demonstrated by proficiency exam.

HIT 114

CPT Coding for the Physician Office

Prerequisite: HIT 104 with minimum grade of C or concurrent enrollment, or knowledge of medical terminology as demonstrated by proficiency exam.

HIT 115

Insurance Procedures for the Medical Office: Medicare

Prerequisites: HIT 113 and either HIT 114 or HIT 170, all with minimum grades of C or concurrent enrollment. Recommended: Hands-on experience with word processing in Windows, or equivalent coursework.

HIT 116

Insurance Procedures for the Medical Office: Non-Medicare

Prerequisites: HIT 113 and either HIT 114 or HIT 170, all with minimum grades of C or concurrent enrollment. Recommended: Hands-on experience with word processing in Windows, or equivalent coursework.

HIT 125

Medical Billing Practices

Prerequisites: HIT 115, HIT 116 and HIT 120, all with minimum grades of C or concurrent enrollment. Recommended: Hands-on experience with word processing in Windows, or equivalent coursework.

HIT 221

Quality Improvement and Assessment in Healthcare

Prerequisites: HIT 106, HIT 130, and BIO 132 with minimum grades of C; concurrent enrollment in HIT 201.

HIT 222

Supervisory and Legal Aspects

Prerequisites: HIT 201, HIT 221, and HIT 251 with minimum grades of C.

HIT 251

Health Information Technology Practice I

Prerequisites: HIT 106, HIT 120, HIT 130, HIT 170 and BIO 132 with minimum grades of C; HIT 201 and HIT 221 with minimum grades of C, or concurrent enrollment and consent of instructor.

HIT 252

Health Information Technology Practice II

Prerequisites: HIT 251 with minimum grade of C; HIT 222 and HIT 260 with minimum grades of C, or concurrent enrollment and consent of instructor.

HISTORY

Course addition:

HIS 228

3:3:0

History of the Holocaust

Course surveys the history, background, causes, events, impact, and implications of the destruction of the Jews in Europe.

INDUSTRIAL DESIGN

Course revisions:

IDE 110

Introduction to Industrial Design Engineering

Change prefix and number to CAD 105

Change title to: Industrial Design Engineering

IDE 210

Advanced Industrial Design Engineering

Change prefix to CAD

Change title to: Industrial Design Engineering Techniques

Change prerequisite to: Recommended: CAD 105.

LIBRARY

Course revision:

LIB 101

Research in the Information Age

Change credit:lecture:lab ratio to 2:2:1

Change course description

MANAGEMENT AND SUPERVISION

Course additions:

MGT 155

3:3:0

Operations and Supply Chain Management

Course integrates the concepts, principles, problems and practices of operations management and supply chain management. Content includes: supply chain and operations strategies, quality control, process choice and layout, managing capacity, forecasting, source decisions and purchasing, logistics, project management, just in time/lean production, global channel management, and managing inventory throughout the supply chain.

MGT 156 3:3:0
Introduction to Transportation, Warehousing and Logistics
Course covers business logistics concepts including the management of transportation, inventory, packaging, warehousing, materials handling, order processing, facility location, and customer service.

MGT 285 3:3:0
Negotiations
Course involves real-life management and personal negotiation situations. Content includes the theory and processes of negotiation as practiced in a variety of settings. Recommended: MGT 117.

MANUFACTURING TECHNOLOGY

Curriculum revision:

For the A.A.S. in Manufacturing Technology (# 0274), add “RFD” to the additional courses that will satisfy the 5 elective credits; total semester credit hours remain the same.

Course addition:

MFG 162 3:2:2
Introduction to Bar Code Technology and Applications
Course covers bar code identification concepts, fundamentals of bar code types, and how emerging Electronic Product Code (EPC) standards are influencing adoption. Students will gain a practical understanding of bar code types, applications, reader capabilities, and their value in supplying management with real-time data for making good businesses decisions. Applications include how to implement bar code data entry and printing systems for inventory control, warehouse sorting and palletizing operations, and work in process part tracking.

Fee \$25

Course revision:

MFG 165
MASTERCAM Computer Aided Manufacturing
Change prerequisite to: Recommended: MFG 144 or equivalent experience.

MATHEMATICS

Course revisions:

MAT 051
Prealgebra Review
1:1:0
Change title to: Algebraic Foundations and Elementary Algebra
Change credit:lecture:lab ratio to 4:4:0
Change course description

MAT 052
Elementary Algebra
Change prerequisite to: MAT 047 or appropriate score on Mathematics Placement Test.

MAT 053
Elementary Plane Geometry
Change prerequisite to: MAT 051 (after Summer 2007) or MAT 052 or appropriate score on Mathematics Placement Test.

MAT 102

Mathematics for Allied Health

Change prerequisite to: MAT 051 (after Summer 2007) or MAT 052 or appropriate score on Mathematics Placement Test.

MAT 120

Intermediate Algebra

Change prerequisite to: MAT 051 (after Summer 2007) or MAT 052 or an appropriate score on Mathematics Placement Test, and MAT 053 or geometry proficiency. MAT 053 and MAT 120 may be taken concurrently.

NATURAL SCIENCE / BIOLOGY

Course revisions:

NSC 106

Introduction to Environmental Science

Change prefix to BIO

NSC 112

Essentials of Nutrition

Change prefix to BIO

NSC 113

Basics of Nutrition

Change prefix to BIO

NURSING / REGISTERED NURSING

Curriculum additions:

Add a 7-credit-hour NCLEX Review Remedial Certificate (# 0324).

Add a 7-credit-hour Nursing Review (CGFNS) Certificate (# 0327).

RADIO FREQUENCY IDENTIFICATION / MANUFACTURING TECHNOLOGY

Curriculum additions:

Add a 31 semester credit hour Radio Frequency Identification Technology (RFIDT) certificate (# 0172).

Add a 29 semester credit hour Transportation, Warehousing, and Logistics Management (TWL) certificate (# 0173).

Course addition:

RFD 101

3:2:2

Introduction to Radio Frequency Identification

Course covers radio frequency identification (RFID) concepts and fundamentals, and how emerging electronic product code (EPCglobal) standards are influencing adoption. Content includes RFID capabilities, current applications of RFID in businesses, and practical ways to articulate use cases for this technology to potential employers and peers.

Fee \$40

RFD 102

3:2:2

TagNet Middleware

Course covers TagNet RFID middleware; specifically on how to install, configure, and implement various use cases found in the supply chain. Topics include an understanding of the capabilities of TagNet and how various use case factors influence read rates and reliability. Prerequisite: RFD 101 or concurrent enrollment in RFD 101.

Fee \$40

RFD 103

3:3:1

The Impact of RFID in the Supply Chain

Course surveys case studies on how Radio Frequency Identification (RFID) has been used in the supply chain. Examples from the retail, pharmaceutical, defense, manufacturing and logistic industries will discuss how companies have gained competitive advantages by implementing this new technology. Topics emphasize impact upon business processes, security of transmitted data and financial analyses. Prerequisite: RFD 101. Recommended: RFD 102.

Fee \$40

RFD 251

3:2:10

RFID Practicum

Direct work experience in an auto-id related environment applying previously learned skills and knowledge to daily work activities. Students will work a minimum of 10 hours per week and will work closely with a discipline-related instructor. In addition, the student will meet in a classroom setting weekly to integrate his/her work experience with classroom activities. Prerequisite: Completion of RFD 103 and a minimum of 12 additional credits in RFD courses, certificate or degree programs.

REAL ESTATE

Course addition:

RES 280

2:2:0

Mortgage Loan Originator

Course covers contemporary issues of mortgage lending. Content includes Real Estate Settlement Procedures Act (RESPA), various Acts that pertain to mortgage lending, as well as an overview of conventional, government and sub prime lending. Course satisfies the Illinois course requirement for a mortgage loan originator.

SOCIAL SCIENCE

Course revision:

SSC 201

Mankind in Global Society

Change title to: Introduction to Global Studies

SPEECH

Course addition:

SPE 290

1-4:0-4:0-4

Topics in Speech

Course will explore selected topics in speech, writing and delivery, interpersonal communication and intrapersonal communication. Course may be repeated once. Prerequisite: Varies depending on specific topic.

Fee varies

THEATER

Course addition:

THE 290

1-4:0-4:0-4

Topics in Theater

Course will offer specialized instruction in specific selected aspects of theater including acting, direction or technical design work. Course may be repeated once. Prerequisite: Varies depending on specific topic.

Fee varies

WORLD WIDE WEB

Curriculum revision:

Change the requirements for the Advanced Web Site Development Certificate (# 0461); total semester credit hours remain the same.

Course additions:

WWW 155

2:2:0

Blogging and Podcasting

Course combines hands-on activities and lectures to increase familiarity with web pages using blogs and podcasts. Content includes creating blog entries using a variety of tools; reading and commenting on blogs; creating, editing, and distributing podcasts; and understanding the RSS file format. Recommended: WWW 131 or basic knowledge of HTML or consent of instructor, coordinator or department chair.

Fee \$15

WWW 185

3:2:2

Web Development Using Ruby on Rails

Course combines hands-on activities and lectures to increase familiarity with web development using the Ruby language and the Rails platform. Recommended: WWW 171 or consent of instructor, coordinator or department chair.

Fee \$15

WWW 221

3:2:2

AJAX Using ASP.NET

Course combines hands-on activities and lectures to increase familiarity with developing web applications using Asynchronous JavaScript and XML (AJAX) with ASP.NET. Content includes creating dynamic web pages using AJAX; client-side and server-side controls; data binding and validation; and integration with other web development technologies. Recommended: WWW 220 or knowledge of basic programming concepts, or consent of instructor, coordinator or department chair.

Fee \$15

End of SECTION II

(COURSE & CURRICULUM CHANGES INCLUDED IN 2007-2008 CATALOG)

SECTION III

COURSE & CURRICULUM CHANGES NOT INCLUDED IN 2007-2008 CATALOG [APPROVED AFTER CATALOG WENT TO PRESS]

AIR CONDITIONING, HEATING AND REFRIGERATION TECHNOLOGY

Course addition:

AHR 211 4:3:3
Advanced Refrigeration Systems
Course covers direct expansion cooling, tube-in-tube and shell-and-tube water cooled condensers, and proper setting of water regulation valves. In the lab, mechanical and electrical malfunctions are simulated to enable students to learn causes for malfunction, diagnostics, and corrective repairs. Prerequisite: AHR 201 or consent of department chair.
Fee \$40

ARCHITECTURAL TECHNOLOGY

Curriculum revision:

Change the requirements for the Architectural Technology A.A.S. (# 0024) to add CAD 220 to the elective options for both the sub-specialties; total semester credit hours remain the same.

Course addition:

ARC 220 4:3:2
CAD Introduction to Building Systems – Revit
Revit enables students to create full 3D architectural project models and place them in working drawings. The class focuses on the basic tools that the majority of users will need to work with. Topics include creating floor plans, adding views, adding various building components, and creating sheets for plotting. Credit cannot be received in both ARC 220 and CAD 220.
Fee \$75

BIOLOGY

Course addition:

BIO 108 3:3:0
General Botany
Course focuses on biological aspects of the plant kingdom, with topics ranging from sub-cellular processes to ecological roles. Content includes structural and physiological adaptations, present and past diversity, reproduction, genetics and evolution, and ecological interactions. Prerequisite: High school biology or BIO 101.

ENGINEERING

Curriculum revision:

Increase the total credit hours for the A.S.E. (# 0850) to 64 due to course revision below.

Course revision:

ENG 211
Analytical Mechanics (Statics)
Increase credit:lecture:lab ratio to 3:3:0

ENGLISH

Course additions:

EGL 095

4:4:0

Business English for Non-native Speakers

Course is designed for non-native English speakers who wish to improve their English vocabulary, writing and speaking skills for the world of work. Focus is on writing business-related documents and speaking in business-related situations using correct grammar and precise language. Also covered are English word forms and American writing style that pose difficulty for ESL students. Prerequisite: Placement in EGL 090 or consent of instructor. Recommended: Experience with word processing.

Fee \$30

EGL 204

3:3:0

Introduction to Screenwriting

Course covers basic techniques of screenwriting. Content includes elements and techniques of screenwriting such as format, structure, character, dialogue, and dramatization of scene. Emphasis will be on writing and revising a feature-length screenplay of the student's own creation. Prerequisite: EGL 101 or consent of instructor.

Course revisions:

EGL 111

Introduction to Business and Technical Writing

Change prerequisite to: EGL 101 or placement into EGL 101.

EGL 150

Introduction to Journalism

Change prerequisite to: EGL 101 or placement into EGL 101.

Change course description

Change course objectives

FACILITIES MANAGEMENT AND ENGINEERING

Curriculum revisions:

Change the title of the Facilities Engineering A.A.S. (# 0363) to: Facilities Energy Systems Technology.

Change the title of the Facilities Engineering Certificate (# 0369) to: Facilities Energy Systems Technology Certificate.

FIRE SCIENCE TECHNOLOGY

Curriculum revisions:

For the Fire Science Technology A.A.S. (# 0180), change the requirements; total semester credit hours remain the same.

For the Fire Science Technology Certificate (# 0181), change the requirements; total semester credit hours remain the same.

For the Basics of Fire Fighting Certificate (# 0183), change the requirements; total semester credit hours remain the same.

Course additions:

FIR 110

3:3:1

Introduction to Public Safety Careers – Fire, Police, and Emergency Medical Services – I

Course introduces three areas of public safety: fire, police, and Emergency Medical Services. Fire content instructs the student on fire department organization and operations, and general aspects of fire science. Police content instructs the student on police department organization and operations, and different criminal justice careers. Emergency Medical Services content instructs the student on emergency medical technician career paths and introduction to the health care professional careers. The student will be trained as a Citizen Emergency Response Team (CERT) member. Credit cannot be received in both FIR 110 and LAE 110.

FIR 111

3:3:1

Introduction to Public Safety Careers – Fire, Police, and Emergency Medical Services – II

Course continues an introduction in three areas of public safety: fire, police, and Emergency Medical Services. Fire content instructs the student on fire department organization and operations, and general aspects of fire science. Police content instructs the student on police department organization and operations, and different criminal justice careers. Emergency Medical Services content instructs the student on emergency medical technician career paths and introduction to the health care professional careers. The student will be trained by American Heart Association (AHA) Standards for CPR, AED, and First Aid. Credit cannot be received in both FIR 111 and LAE 111. Prerequisite: FIR 110 or LAE 110.

Course revision:

FIR 211**Fire Prevention Principles II**

Change the prerequisite to: Recommended: FIR 101 and FIR 201.

LAW ENFORCEMENT

Curriculum revision:

Change the requirements for the Law Enforcement A.A.S. (# 0240) to add LAE 111 and FIR 111 as alternate options to LAE 101 under the major requirements; total semester credit hours remain the same.

Course additions:

LAE 110

3:3:1

Introduction to Public Safety Careers – Fire, Police, and Emergency Medical Services – I

Course introduces three areas of public safety: fire, police, and Emergency Medical Services. Fire content instructs the student on fire department organization and operations, and general aspects of fire science. Police content instructs the student on police department organization and operations, and different criminal justice careers. Emergency Medical Services content instructs the student on emergency medical technician career paths and introduction to the health care professional careers. The student will be trained as a Citizen Emergency Response Team (CERT) member. Credit cannot be received in both LAE 110 and FIR 110.

LAE 111

3:3:1

Introduction to Public Safety Careers – Fire, Police, and Emergency Medical Services – II

Course continues an introduction in three areas of public safety: fire, police, and Emergency Medical Services. Fire content instructs the student on fire department organization and operations, and general aspects of fire science. Police content instructs the student on police department organization and operations, and different criminal justice careers. Emergency Medical Services content instructs the student on emergency medical technician career paths and introduction to the health care professional careers. The student will be trained by American Heart Association (AHA) Standards for CPR, AED, and First Aid. Credit cannot be received in both LAE 111 and FIR 111. Prerequisite: LAE 110 or FIR 110.

MANAGEMENT AND SUPERVISION

Curriculum revision:

For the Leadership Excellence Certificate (# 0223), change the requirements; total semester credit hours remain the same.

Curriculum withdrawal:

Professional Consulting Certificate (# 0234)

Course withdrawals:

MGT 203
Building a Consulting Practice

MGT 204
The Consulting Process

MGT 224
Organizational Planning, Implementation and Control

MARKETING MANAGEMENT

Curriculum withdrawals:

Pharmaceutical Sales Certificate (# 0438)
Direct Marketing Certificate (# 0439)
Global Marketing Certificate (# 0449)
Advertising Certificate (# 0457)

Course withdrawals:

MKT 218
Media Planning

MKT 280
Advanced Advertising

MATHEMATICS

Course addition:

MAT 203 1:1:0
Mathematics Challenges Review

Through reviewing selected topics in geometry, college algebra, trigonometry, finite mathematics, probability, statistics, calculus, linear algebra, and ordinary differential equations, this course will prepare students for math competitions at the levels of precalculus or calculus, the further study of mathematics, and standardized tests.

Prerequisite: MAT 122 or MAT 140 with a grade of C or better, or appropriate score on the Mathematics Assessment Test, and consent of instructor.

MASSAGE THERAPY

Curriculum addition:

Add a 31-credit-hour Massage Therapy Certificate (# 0357).

Course additions:

MAS 101	4:3:2
Massage Therapy I: Swedish Massage	
Course involves hands-on learning of basic Swedish Massage techniques and strokes, including effleurage, friction, petrissage, tapotement, vibration, and joint movements. Content includes body mechanics, draping techniques, client intake, contraindications, and listening skills. Midway through the semester, the course includes practicum time during which students perform Swedish Massage on actual clients, under supervision of licensed instructors. Prerequisites: Admittance into the program; 18 years of age or older.	
	Fee \$550
MAS 102	4:3:2
Massage Therapy II: Integrative Massage	
Course covers various massage therapy topics including fascial web, craniosacral system, foot reflexology, and polarity therapy. Towards the end of the semester, course includes practicum time during which students integrate knowledge and techniques by performing Swedish Massage on actual clients, under supervision of licensed instructors. Prerequisite: Concurrent enrollment in MAS 101.	
	Fee \$550
MAS 103	3:2:2
Massage Therapy II: Rehabilitative	
Course combines two therapeutic modalities – Neuromuscular Therapy and Sports Massage Therapy – to assist with fine tuning of massage palpation skills. Content includes both functional assessment and corrective concepts. Prerequisite: MAS 101, MAS 102, MAS 110, MAS 112 and MAS 114, with minimum grades of C.	
	Fee \$550
MAS 104	4:3:2
Massage Therapy IV: Deep Tissue	
Course involves hands-on learning of the fascial system and fascial web. Content includes therapeutic massage techniques and strokes, with an understanding of the connective tissue which supports the body. This course blends didactic lecture with hands-on practice. Prerequisite: Completion of MAS 101, MAS 102, MAS 110, MAS 112 and MAS 114, with minimum grades of C.	
	Fee \$550
MAS 110	3:3:0
Massage Structure and Functions I	
Course examines the anatomy and physiology of cells and tissues that underlie the normal functioning of the human body. Content includes an introduction to the principal bones and muscles, as well as their structure and functions at both a cellular and tissue level. Anatomic or physiological principles are related to practical phenomena encountered in massage therapy. Course also covers basic principles of pathology and the major pathological conditions likely to be encountered in massage therapy. Prerequisite: Concurrent enrollment in MAS 101.	
	Fee \$550

MAS 111	3:3:0
Massage Structure and Functions II	
Course examines the anatomy and physiology of cells and tissues that underlie the normal functioning of the body. Content focuses on the structure and functions of the major systems of the human body. Anatomic or physiological principles are related to practical phenomena encountered in massage therapy. Prerequisite: Completion of MAS 101, MAS 102, MAS 110, MAS 112 and MAS 114, with minimum grades of C.	
	Fee \$550
MAS 112	2:2:0
Kinesiology and Palpation for Massage Therapy I	
Course examines the skeletal and muscular systems that underlie the normal functioning of the body. Content includes a study of the structure of each major joint of the body and how the surrounding musculature affects the support and function of those joints. Principles of kinesiology are geared toward practical applications in the field of massage therapy, including major pathological conditions likely to be encountered. Prerequisite: Concurrent enrollment in MAS 101.	
	Fee \$550
MAS 113	2:2:0
Kinesiology and Palpation for Massage Therapy II	
Course continues an examination of the skeletal and muscular systems that underlie the normal functioning of the body. Content includes an introduction to the complexities of movement, and the directional terminology associated with that movement. Students build upon their knowledge of the skeletal system and begin to address the bony landmarks of the axial skeleton, the core muscles for movement and stability. Prerequisite: Completion of MAS 101, MAS 102, MAS 110, MAS 112 and MAS 114, with minimum grades of C.	
	Fee \$550
MAS 114	2:2:0
Business and Communication for Massage Therapy I	
Course covers the basic communications/ethics and business skills necessary to become a massage therapist. Prerequisite: Concurrent enrollment in MAS 101.	
	Fee \$550
MAS 115	2:2:0
Business and Communication for Massage Therapy II	
Course covers more advanced communication techniques for managing the client-massage therapist relationship. Content also includes principles of professional ethics, and legal and regulatory considerations for a massage therapy business. Journaling is an integral part of the coursework. Prerequisite: Completion of MAS 101, MAS 102, MAS 110, MAS 112 and MAS 114, with minimum grades of C.	
	Fee \$550

MECHANICAL DESIGN/CAD

Curriculum revisions:

For the Mechanical Design/CAD A.A.S. (# 0270), change the requirements to add ARC 220 to the elective options; total semester credit hours remain the same.

For the Industrial Design Engineering Certificate (# 0278), change the requirements; total semester credit hours decrease to 14.

Course revision:

CAD 220

CAD Introduction to Building Systems – Revit

Add one sentence to the course description

PHARMACY TECHNICIAN / MEDICAL LABORATORY TECHNOLOGY

Curriculum addition:

Add a 5-credit-hour Aseptic Pharmaceutical Preparations Certificate (# 0283).

Course addition:

MLT 130

5:5:0

Aseptic Pharmaceutical Preparations

Course is a comprehensive 75-hour one-semester course designed for pharmacy technicians, pharmacists, and quality assurance personnel. The focus is on development of core competencies necessary to safely prepare and deliver sterile commercial and compounded pharmaceuticals. Content meets or exceeds guidelines and standards required by the United States' Pharmacopoeia Forum General Chapter <797> (*Pharmaceutical Compounding—Sterile Preparations*). Recommended: Completion of a pharmacy technician program; or employment as a pharmacy technician, pharmacist or quality assurance specialist; or completion of – or concurrent enrollment in – MLT 125.

Fee \$1340

WORLD WIDE WEB

Course addition:

WWW 132

2:2:1

Cascading Style Sheets

Course expands basic development of Web pages. Content focuses on the use of Cascading Style Sheet to present the content of a well structured XHTML document in a meaningful method. Recommended: WWW 131 or working knowledge of HTML/XHTML.

Fee \$15

Course revision:

WWW 181

Web Scripting

Change recommendation to: CSC 155 or CSC 156, and WWW 171, each with minimum grade of C, or consent of instructor, coordinator or department chair.

