



## ACADEMIC BRIEFING

SPRING 2010

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The Office of Research, Curriculum and Planning is in its 21st 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 (2010-2011) academic year.

An electronic version of this document may be found online at <http://www.oakton.edu/resource/oir/ACBRF10.pdf>.

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## SECTION I

### CORRECTIONS/UPDATES: 2010-2011 CATALOG

page 25      The Coordinator for the Human Services and Substance Abuse Counseling programs is Marvin **Bornschlegl**.

page 133      Note at the very bottom of the page should read: Completion of the A.A.S. in Early Childhood Education and the **Administration** Certificate can lead to obtaining the Illinois Director Credential Level I. Contact the ECE program chair for more information.

## SECTION II

### COURSE & CURRICULUM CHANGES INCLUDED IN 2010-2011 CATALOG

#### APPLIED BUSINESS

##### *Curriculum revision:*

Customer Service Certificate (# 251) – change requirements; total semester credit hours decrease to 12.

#### ACCOUNTING

##### *Curriculum revisions:*

AAS in Accounting (# 0005) – add asterisk at the bottom indicating that ACC 251 QuickBooks Consulting (3 credit hours) can substitute for ACC 173 (1 credit hour) plus the Accounting Elective (2 credit hours); total semester credit hours remain the same.

Accounting Associate Certificate (# 0003) – add asterisk at the bottom indicating that ACC 251 QuickBooks Consulting (3 credit hours) can substitute for ACC 173 (1 credit hour) plus the Accounting Elective (2 credit hours); total semester credit hours remain the same.

Bookkeeping Certificate (# 0004) – add asterisk at the bottom indicating that students who complete ACC 251 QuickBooks Consulting (3 credit hours) do not need to take ACC 173 (1 credit hour); total semester credit hours remain the same.

Income Tax Preparation Certificate (# 0007) – additional Accounting Electives are reduced from 3 credit hours to 2 credit hours; add asterisk at the bottom that ACC 251 QuickBooks Consulting (3 credit hours) can substitute as ACC 173 (1 credit hour) plus the Accounting Elective (2 credit hours); total semester credit hours decrease from 20 to 19.

##### *Course addition:*

ACC 251

3:3:0

QuickBooks Consulting

Course prepares students for QuickBooks ProAdvisor Exam. Content in first 8 weeks includes basic functions such as sales, receivables, purchases, payables, inventory, bank reconciliations, sales taxes, and payroll. Content in second 8 weeks includes cleaning up errors, fixing the data necessary for tax returns, troubleshooting financial reports, and developing skills to become a QuickBooks consultant. This course will substitute for ACC 173 (1 credit hour) + Accounting Elective (2 credit hours). Previous experience with QuickBooks is not required. Recommended: ACC 153 and basic computer skills.

#### ART

##### *Curriculum revision:*

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

*Course addition:*

ART 278

3:0:6

The Digital Darkroom

Course provides students of digital photography with an integrated approach to the digital darkroom. Students will learn to organize digital images for effective workflow. Content includes color management techniques, such as monitor calibration, image editing capabilities of Adobe Bridge/Camera RAW and Lightroom, Photoshop techniques for professional digital photographers, fine tonal and color adjustments, noise reduction, sharpening techniques, use of icc color profiles in their printing procedures and a variety of fine art inkjet papers. Prerequisite: ART 216.

Fee \$75

*Course revisions:*

ART 219

Photographic Lighting

Change prerequisite to: ART 115 or ART 117 or consent of instructor.

ART 223

Landscape Photography Field Study

Change prerequisite to: ART 115 or ART 117.

ART 229

Commercial Studio Photography

Change title to: Advanced Studio Lighting

ART 277

Color Correction for Photographers

Change title to: Color Management

**BUSINESS**

*Course revision:*

BUS 101

Introduction to Business

Add Recommended: Placement in EGL 101; hands-on experience using word processing, the Internet, and e-mail.

Change course description, learning objectives and outline of topics.

**CISCO NETWORK ACADEMY**

*Course withdrawals:*

CNA 108 Home Technology Integration

CNA 181 Fundamentals of Network Security I

CNA 182 Fundamentals of Network Security II

CNA 211 Advanced Routing CCNP5

CNA 212 Remote Access CCNP6

CNA 213 Multi-Layer Switching CCNP7

CNA 214 Internetwork Troubleshooting CCNP8

CNA 290 Topics in Networking

## **COLLEGE STUDIES**

### *Course revisions:*

COL 101  
College Success Seminar  
Change course description

COL 110  
College Success for Adult Learners  
Change course description

## **COMPUTER APPLICATIONS FOR BUSINESS**

### *Curriculum addition:*

Add an 11-semester-credit-hour Microsoft Office Specialist Certificate (# 0306).

### *Curriculum revisions:*

Microsoft Office Specialist Core (MOS) Certificate (# 0133) – change title and requirements; total semester credit hours increase to 17.

Office Information Processing Specialist Certificate (# 0308) – change requirements; total semester credit hours increase to 19.

### *Course revision:*

CAB 251  
Internship Experience  
Change title to: Computer Applications for Business Internship  
Change course description  
Change learning objectives and outline of topics

## **COMPUTER INFORMATION SYSTEMS**

### *Curriculum addition/revision:*

Add a Microsoft Project Management Preparation Certificate (# 0147); total semester credit hours were initially 6 and then were changed to 5.

### *Course addition:*

CIS 253 2:2:0  
Project Management Certification Preparation  
Course offers an intensive review of project management concepts and the application of these concepts to various business scenarios in preparation for the Project Management Professional (PMP) certification exam. Students cannot receive credit for both CIS 253 and MGT 253. Recommended: CIS 236 or MGT 236 or comparable knowledge or consent of instructor.

*Course revision:*

- CIS 251
- Internship Experience
- Change title to: Computer Information Systems Internship
- Change course description
- Change learning objectives and outline of topics

**COMPUTER NETWORKING AND SYSTEMS**

*Curriculum additions:*

- Add a 60-semester-credit-hour A.A.S. in Computer Networking and Systems (# 0142).
- Add a 10-semester-credit-hour Windows Desktop Support Technician Certificate (# 0122).

*Curriculum revision:*

Network Security Administrator Certificate (# 0152) – change requirements to add CNS 171 under the list of electives; total semester credit hours remain the same.

*Course addition:*

CNS 171 3:3:1  
 Network Security Hardening  
 Course provides students with the technical knowledge and skills in scripting required for “tighten down” security in computer network and systems. Course includes practical knowledge and step-by-step directions for securing a diverse network with multiple devices and operating systems. This course also assist students in preparing for the appropriate Network or Information Security Certification examinations.  
 Recommended: CNS 105 or consent of instructor, coordinator, or program chair.

Fee \$50

*Course revisions:*

Course Prefix & Number	Current Course Name	New Course Name	Change Course Description	Change Learning Objectives	
CNS 105	Networking Essentials		<b>x</b>	<b>x</b>	
CNS 141	Cisco Networking Basics Competencies	Cisco Network Fundamentals	<b>x</b>	<b>x</b>	
CNS 142	Cisco Routers and Routing Basics Competencies	Cisco Network Routing Protocols and Concepts	<b>x</b>	<b>x</b>	
CNS 143	Cisco Switching Basics and Intermediate Routing Competencies	Cisco LAN Switching and Wireless	<b>x</b>	<b>x</b>	
CNS 144	Cisco WAN Technologies Competencies	Cisco Accessing the WAN	<b>x</b>	<b>x</b>	
CNS 170	Principles of Information Security		<b>x</b>	<b>x</b>	

CNS 172	Network Defense and Countermeasures		<b>x</b>	<b>x</b>	
CNS 174	Introduction to Computer Forensics		<b>x</b>	<b>x</b>	
CNS 176	Security+ Certification			<b>x</b>	
CNS 251	Internship Experience		<b>x</b>	<b>x</b>	

## **ECONOMICS**

### *Course withdrawal:*

ECO 203  
Money and Banking

## **ELECTRONICS AND COMPUTER TECHNOLOGY**

### *Course addition:*

ELT 160 3:2:2  
Overview of Alternative Energy Resources  
Project-based course covering renewable and alternative forms of energy. Content includes an overview of solar, wind, hydroelectric, biomass, geothermal and nuclear power. Includes hands-on labs on solar, wind and hydropower, and simulations of the others. Recommended: Concurrent enrollment in ELT 101 or ELT 107 or ELT 130, or prior knowledge of electronics and electricity.  
Fee \$30

## **FINANCIAL SERVICES**

### *Curriculum revisions:*

Financial Services/Investment Analysis Certificate (# 0014) – change requirements; total semester credit hours increase to 15.

### *Curriculum withdrawals:*

A.A.S. in Financial Services (# 0041)

Financial Services/Banking Certificate (# 0013)

Financial Services/Investment Management Certificate (# 0015)

### *Course revision:*

FIS 250  
Interest Rates and Foreign Exchange Markets  
Change prefix to GBS  
Update learning objectives  
Add Recommended: GEG 130.

*Course withdrawal:*

FIS 110  
Consumer and Commercial Credit

**FIRE SCIENCE TECHNOLOGY**

*Course addition:*

FIR 103 6:3:6

Firefighter II / Basic Firefighter, Part II

This course continues to instruct students in the theory, basic individual skills, and team skills required for using and operating fire suppression and ancillary equipment and as well as other basic fire knowledge and skills required by the Office of the State Fire Marshal (OSFM) and recommendations by the National Fire Protection Association, NFPA 1001: Firefighter Professional Qualifications. Content includes: fire organization, fire behavior, safety, self contained breathing apparatus, portable fire extinguishers, ladders, fire hose and appliances, building construction, forcible entry, ventilation, water supply, nozzles and fire streams, rescue, fire control, ropes and knots, loss control, fire detection-alarm & fire suppression systems, fire prevention & public education, protecting evidence for cause and determination, communications, terrorism, and firefighter survival. Prerequisite: Concurrent enrollment in FIR 102. Recommended: FIR 101.

Fee TBA

*Course revision:*

FIR 102

Firefighter

Change title to: Firefighter II / Basic Firefighter, Part I

Change credit:lecture:lab to 6:3:6

Add Prerequisite: Concurrent enrollment in FIR 103. Recommended: FIR 101.

Change course description

**GLOBAL BUSINESS STUDIES**

*Curriculum addition:*

Add a 12-semester-credit-hour Global Business Technical Certificate (# 0203).

*Curriculum revision:*

Global Business Certificate (# 0202) – change requirements; total semester credit hours remain the same.

*Course withdrawal:*

GBS 215

Global Finance

**GRAPHIC DESIGN/ART**

*Curriculum revision:*

Animation and Multimedia Certificate (# 0371) – change requirements (eliminate ART 264 and add ART 268 to the list of required courses); total semester credit hours remain the same.

*Course revision:*

ART 259  
Web Graphics, Animation and Multimedia  
Change title to: Web Graphic Page Design

**HISTORY**

*Course addition:*

HIS 229 3:3:0  
History of Genocide  
Course surveys the history, background, causes, definition, events, impact, implications, and nature of genocide.

**HORTICULTURAL THERAPY**

*Curriculum revision:*

Horticultural Therapy Certificate (# 0412) – change requirements (add HTC 100); total semester credit hours increase from 9 to 12.

*Course addition:*

HTC 100 3:1:4  
Essentials of Horticulture for Horticultural Therapists  
Course provides introduction to horticulture required for understanding of horticultural therapy. Content includes plant classifications and structure, plant growth and development, and appropriate soil composition for indoor and outdoor plants. Prerequisite: Program admission and concurrent enrollment in HTC 101 and HTC 110.

*Course revisions:*

HTC 101  
Health Through Horticulture: Using Plants for Therapeutic Outcomes  
Change course description  
Change prerequisite to: Program admission and concurrent enrollment in HTC 110; HTC 100 or equivalent.

HTC 110  
Horticultural Therapy Application and Practicum  
Change course description

**HUMAN SERVICES**

*Course additions:*

HSV 160 3:3:0  
Domestic Violence Advocacy  
Course examines the skills necessary to provide crisis intervention in various settings to adult and child survivors of domestic violence, and offers a background of information on domestic violence and advocacy for victims/survivors. Upon completion, students will be eligible to intern at an approved domestic violence victim advocacy agency. The student who completes both the coursework and the internship will be eligible to

take the State examination and upon successful completion, receive credentialing as an Illinois Certified Domestic Violence Professional.

HSV 165

3:3:0

Sexual Assault Crisis Intervention

Course examines the skills necessary to provide crisis intervention in various settings to adult and child survivors of sexual violence, and offers a background of information on sexual violence and the rape crisis movement. Successful completion of the course qualifies the student to receive certification by a State-approved agency such as Northwest CASA.

## **HUMANITIES**

### *Curriculum proposal:*

Add an 18-semester-credit-hour Peace and Social Justice Studies Concentration to the 2010-11 College catalog.

### *Course revision:*

HUM 140

Introduction to Women's Studies

Change course description and update learning objectives

## **LAW ENFORCEMENT**

### *Curriculum revisions:*

A.A.S. in Law Enforcement (# 240) – change requirements; total semester credit hours remain the same.

Law Enforcement Certificate (# 0241) – change requirements; total semester credit hours remain the same.

### *Course addition:*

LAE 250

3:3:0

Victimology

Course focuses on the criminal event from both the perspective of victims and the motives of offenders. It will examine victimization patterns, typologies, lifestyles, causal factors, consequences and the treatment of victims by the criminal justice system. Students will identify pre-incident warning signs and learn about strategies used to prevent future harm.

Fee \$15

## **MANAGEMENT AND SUPERVISION**

### *Curriculum revision:*

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

### *Course additions:*

MGT 253

2:2:0

Project Management Certification Preparation

Course offers an intensive review of project management concepts and the application of these concepts to various business scenarios in preparation for the Project Management Professional (PMP) certification exam. Students cannot receive credit for both MGT 253 and CIS 253. Recommended: CIS 236 or MGT 236 or comparable knowledge or consent of instructor.

MGT 276

3:3:0

Corporate Social Responsibility and Decision Making

Course familiarizes students with concepts of corporate citizenship and sustainability by focusing on the scope and consequences of corporate decision making and its impact on its various constituencies in a global setting. Students will develop a framework for analyzing good corporate decisions, the role of the individual, and the responsibility of leadership and governance in the decision making process. Recommended: PHL 107.

*Course revision:*

MGT 121

Principles of Management

Add Recommended: Placement in EGL 101; hands-on experience using word processing, the Internet, and e-mail.

Change learning objectives and outline of topics.

## **MANUFACTURING TECHNOLOGY**

*Curriculum addition:*

Add a 10-semester-credit-hour CNC Operations and Programming Preparation Certificate (# 0279).

*Curriculum revisions:*

A.A.S. in Manufacturing Technology (# 0274) – change requirements; total semester credit hours remain the same.

Manufacturing Technology Certificate (# 0271) – change requirements; total semester credit hours decrease to 32.

Automation and Controls Certificate (# 0276) – change requirements; total semester credit hours decrease to 14.

*Course additions:*

MFG 110

2:1:2

Introduction to Manufacturing Processes

Course examines the basic manufacturing processes from product design through production and quality testing. Content includes Design for Manufacturing, Concurrent Design, Constrain Management, Measurement Tools, Blue Print Reading, CNC Machine Set-up, CNC Machine Programming (Lathe and Mill), Rapid Prototyping, Quality Control using GD&T. This is a hands-on, team based, class design to give students an overview of the processes used to design and manufacture complex products. Recommended: Working knowledge of basic electricity and some basic physics background.

Fee \$40

MFG 111

3:2:2

Introduction to Manufacturing Automation Systems

Course introduces students to the basic control systems used to automate manufacturing processes. Content includes; Hydraulics & Pneumatics used for motion control, PLC's Programmable Controllers, Sensors and Vision systems, Robotics, Designing a CIM cell. This is a hands-on, team based, class to give students the basic concepts needed to design manufacturing automation systems using both hard automation and robots

used in a CIM cell high end automation system. Prerequisite: MFG 110 or equivalent background.  
 Recommended: Working knowledge of basic electricity and some basic physics background.  
 Fee \$40

**MARKETING MANAGEMENT**

*Curriculum addition:*

Add a 12-semester-credit-hour Green Marketing Preparation Certificate (# 0260).

*Curriculum revisions:*

Professional Selling Skills Certificate (# 263) – change requirements; total semester credit hours decrease to 12.

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

*Course addition:*

MKT 275 3:3:0  
 Social Media Tools for Business  
 Course introduces a variety of social media and Web 2.0 concepts and tools from a business/marketing perspective, including social networks, blogs, wikis, podcasts, and more. With an understanding of the tools, students will learn how to leverage them in order to support their business or career.

*Course revisions:*

Change MKT courses as follows:

Course Prefix & Number	Current Course Name	New Course Name	Change Course Description	Add Recommendation	Change Learning Objectives	Change Outline of Topics
MKT 131	Principles of Marketing			X	X	
MKT 161	Principles of Professional Selling			X	X	
MKT 215	Introduction to Advertising			X	X	
MKT 225	Business Marketing			X	X	
MKT 230	Consumer Behavior			X	X	
MKT 248	Marketing Management				X	
MKT 251	Marketing Practicum	Practicum Marketing	X	X		
MKT 260	Advanced Events Planning	Events Planning				
MKT 265	Internet Marketing	Interactive Marketing	X	X	X	X
MKT 266	New Media and Technology in Marketing				X	X
MKT 270	Integrated Marketing Communications				X	

## **PHYSICAL EDUCATION**

### *Course addition:*

PED 230

3:3:0

Coaching Certification in Illinois

Course focuses on coaching principles, sports first aid, and Illinois High School Association (IHSA) by laws. Upon successful completion, students will be eligible to take the test to receive certification from the American Sport Education Program (ASEP) allowing them to coach in Illinois schools.

## **RADIO FREQUENCY IDENTIFICATION**

### *Curriculum addition:*

Add a 12-semester-credit-hour Transportation, Warehousing and Logistics Certificate (# 0176).

## **SOCIOLOGY**

### *Course revision:*

SOC 230

Gender Roles

Change title to: Sociology of Sex and Gender

Update learning objectives

**End of SECTION II**

**(COURSE & CURRICULUM CHANGES INCLUDED IN 2010-2011 CATALOG)**

### SECTION III

#### COURSE & CURRICULUM CHANGES NOT INCLUDED IN 2010-2011 CATALOG [APPROVED AFTER CATALOG WENT TO PRESS]

##### AIR CONDITIONING, HEATING, AND REFRIGERATION TECHNOLOGY

*Curriculum addition:*

Add a 32-semester-credit-hour Commercial Buildings Energy Systems Certificate (# 0058).

*Course additions:*

AHR 212 3:3:0

Indoor Air Quality

Course covers sources of pollutants, methods of control, and management techniques to maintain acceptable indoor air quality. Prerequisite: AHR 203 or consent of department chair.

AHR 213 4:4:0

Commercial HVAC Systems Applications

Course covers various types of HVAC systems used in commercial buildings. Topics include all-air, air-hydrionic, all-hydrionic and unitary systems and their layouts for air filtration, odor removal, heating, cooling, and air distribution. Prerequisite: AHR 212 or consent of department chair.

AHR 214 4:3:3

Energy Audit, Analysis and Management

Course covers conducting energy audit, surveying and evaluation procedures for energy using systems, and establishing energy management procedures and schedule. Prerequisite: AHR 213 or consent of department chair.

Fee \$75

##### BASIC NURSE ASSISTANT TRAINING

*Curriculum revision:*

Basic Nurse Assistant Training Certificate (# 0037) – change requirements; total credit hours increase to 8.

*Course revision:*

BNA 100

Basic Nurse Assistant Training

Change credit:lecture:lab to 7:5:7

##### BUSINESS

*Course revisions:*

Course	Title Change	Description Change	Updated Learning Objectives	Outline of Topics Changes
BUS 221			X	
BUS 222			X	

## **BIOLOGY**

### *Course revisions:*

BIO 132  
Human Anatomy and Physiology II  
Change prerequisite to: BIO 131 with a minimum grade of C.

BIO 151  
Microbiology  
Change prerequisite to: BIO 121 (preferred) with a minimum grade of C or BIO 131 with a minimum grade of C.

## **COMPUTER NETWORKING AND SYSTEMS**

### *Course addition:*

CNS 152 3:3:1  
Data Media Infrastructure Fundamentals for IT Professionals  
Course presents fundamentals of media infrastructure for an enterprise network. Topics include the necessary knowledge to specify a premise structured cabling system for a company. Standards from the TIA, ISO and the IEEE will be examined. Best practices for designing and maintaining a structured cabling system will be examined. The course will end with a discussion of trends in data media infrastructure. This course will provide students, with the prerequisite knowledge necessary to pursue the Registered Information Transport Professional (RITP) Certification. Recommended: CNS 105 or consent of instructor or program chair.  
Fee \$40

## **ELECTRONICS AND COMPUTER TECHNOLOGY**

### *Curriculum revision:*

Electronics Computer Technician Certificate (# 0167) – change requirements; total credit hours remain the same.

## **GEOGRAPHY**

### *Course revision:*

GEG 130  
Economic Geography  
Change title to: Global Economies

## **GRAPHIC DESIGN**

### *Curriculum revision:*

Animation and Multimedia Certificate (# 0371) – change requirements; total credit hours decrease to 30.

## **HINDI-URDU (see Modern Languages)**

## **HISTORY**

### *Course additions:*

HIS 223

3:3:0

Environmental History of the U.S.

Course surveys the history of the environment and human impact/interrelation with nature. The course will cover the periods of Native American habitation, European settlement, westward expansion, and urban sprawl. Areas of study include settlement, agriculture, ecology, environmental movements, and conservation efforts. These areas will be studied through social, political, and economical impacts at the local, national, and international levels.

HIS 241

3:3:0

History of Chicagoland

Course surveys the history of Chicago and the surrounding suburbs, with an emphasis on the growth and development of the area. Content includes land development, culture, social movements, government, and economic history/development. Other topics linking Chicago with its suburbs include the growth of transportation and urbanization, with a concentration on the post-WWII boom.

## **MANAGEMENT AND SUPERVISION**

### *Course additions:*

MGT 138

3:3:0

Introduction to Life Coaching

Course introduces the beginning fundamentals of life coaching. Students will learn both the history of the field as well as current coaching trends and how to create a coaching practice based on individual skills, experience, and interests.

MGT 238

3:3:0

Life Coaching II

Course supports advanced fundamentals of life coaching with a focus on applied knowledge. Students will learn coaching strategies and create a structure for their own coaching practice. Prerequisite: MGT 138.

### *Course revisions:*

<b>Course Title</b>	<b>Change</b>	<b>Description Change</b>	<b>Updated Learning Objectives</b>	<b>Outline of Topics Changes</b>
MGT 101		X	X	X
MGT 105	X	X	X	X
MGT 117		X	X	X
MGT 118		X	X	X
MGT 140			X	X
MGT 165			X	
MGT 170			X	
MGT 205			X	
MGT 222			X	
MGT 225	X		X	X
MGT 228	X		X	
MGT 232			X	
MGT 266			X	

MGT 267			X	
MGT 268			X	
MGT 271			X	

## **MANUFACTURING TECHNOLOGY**

### *Course addition:*

MFG 141

4:2:4

CNC Machine Operation – NIMS Test Preparation

Course provides instructional and hands on training to prepare students to take the NIMS (National Institute for Metalworking Skills) “CNC Operator” certification test. This is a web-based training class which contains 24 self paced learning units as well as a lab component for hands on experience. Topics covered are: computer numerical control (CNC) mill, lathe and grinder set-up and operation, tool identification, set-up and maintenance, fixture set-up and operation, CNC troubleshooting and maintenance, precision measurement and gauging, print reading, geometric dimensioning and tolerancing, machining processes, statistical process control, quality and cycle time optimization, and CNC program operation. Recommended: Computer competency and familiarity with web-based instruction.

Fee \$40

## **MARKETING MANAGEMENT**

### *Course revisions:*

<b>Course Title</b>	<b>Change</b>	<b>Description Change</b>	<b>Updated Learning Objectives</b>	<b>Outline of Topics Changes</b>
MKT 150		X	X	X
MKT 151	X	X	X	X
MKT 165			X	X
MKT 240			X	X
MKT 244			X	X

## **MATHEMATICS**

### *Course revision:*

MAT 051

Algebraic Foundations and Elementary Algebra

Add the following sentence to the course description: Computer software will be utilized to facilitate learning objectives.

## **MECHANICAL DESIGN/CAD**

### *Curriculum addition:*

Add an 11-semester-credit-hour CAD Interior Design Certificate (# 0267).

## **MODERN LANGUAGES**

### *Course addition:*

HUD 101

4:3:2

Beginning Hindi-Urdu I

Course develops basic language skills in Hindi and Urdu within the context of the cultures of South Asia. Though written in different scripts and now associated with different countries and religions (India and Hinduism, and Pakistan and Islam respectively) Hindi and Urdu are essentially the same language and taught as one in this course. Especially at the informal level, the two languages are virtually interchangeable. Content includes pronunciation, vocabulary, grammar, reading, listening comprehension and oral and written communication. No prior study of the language is presumed. Recommended that experienced students discuss proper placement with instructor.

Fee \$20

## **PHARMACY TECHNICIAN**

### *Curriculum revision:*

Pharmacy Technician Certificate (# 0282) – change requirements; total credit hours increase to 7.

### *Course revision:*

MLT 125

Pharmacy Technician

Change credit:lecture:lab to 7:7:0

Change course description

## **PHYSICAL THERAPIST ASSISTANT**

### *Curriculum revision:*

A.A.S. in Physical Therapist Assistant (# 0360) – change requirements; total semester credit hours remain the same.

### *Course addition:*

PTA 218

2:2:1

Clinical Applications for PTA

Course examines the clinical management of complex physical therapy patients. Focus is on the practical application of effective treatment strategies to a variety of diagnoses using a case study, problem-based approach. Prerequisite: Completion of PTA 207, PTA 210, and PTA 211 with minimum grade of C in all courses.

### *Course withdrawal (effective Summer 2011):*

PTA 212

Advanced Manual Techniques for the PTA

## **RADIOLOGIC TECHNOLOGY**

### *Curriculum addition:*

Add a 78-semester-credit-hour A.A.S. in Radiologic Technology (# 0382).

### *Course additions:*

- |  |       |
|--|-------|
| RDT 100  | 1:1:0 |
| Introduction to Radiography  |       |
| Course introduces the student to radiography in the health care setting. Content includes: the history of radiation and x-rays; different career paths in radiography; the role of the health care team; and the professionalism of medical imaging.   |       |
| RDT 101  | 2:2:0 |
| Patient Care/Medical and Legal Ethics  |       |
| Course covers concepts of patient care, including considerations of both the physical and psychological. Content includes: ethical and legal responsibilities of the technologists relative to health care delivery; routine and emergency patient care procedures; basic pharmacology; the role of the radiographer in patient education; and aspects of death and dying. |       |
| RDT 102  | 2:2:0 |
| Medical Terminology  |       |
| Course focuses on how to build medical words from Greek and Latin prefixes, suffixes, word roots, and combining forms. Content includes medical abbreviations and their meanings for medical terms and phrases, and how to translate and utilize medical terminology in the hospital environment.  |       |
| RDT 105  | 2:2:0 |
| Radiation Protection   |       |
| Course covers different sources of ionizing radiation, hazards involved to both technologists and patient, and proper protective measures to be taken. Content includes radiation monitoring and survey equipment.   |       |
| RDT 110  | 2:1:5 |
| Procedures I and Lab   |       |
| Course introduces positioning principles, terminology, and topographical landmarks. Anatomy positioning of the chest, abdomen, biliary, gastrointestinal, and urinary systems are covered. Topics include the use of radiation protection principles and the correlation of radiographs to the positioning of the anatomical parts for optimal diagnostic images.          |       |
| RDT 111  | 2:2:0 |
| Anatomy and Physiology I   |       |
| Course covers the skeletal system, bone development, identification of bony anatomy for the upper and lower extremities, thorax, vertebral column, pelvis and skull. Content also includes function and articulation. Prerequisite: RDT 100.   |       |
| RDT 120  | 2:1:5 |
| Procedures II and Lab  |       |
| Course covers proper positioning for radiograph of the LGI and upper and lower extremities. Laboratory assignments will include demonstration of the correlation of radiographs to positioning. Prerequisite: RDT 110 and RDT 111.   |       |

RDT 122	2:2:0
Anatomy and Physiology II	
Course is an extension of Anatomy and Physiology I and covers organs and systems along with their physiological processes. Systems covered include digestive, urinary, respiratory, circulatory, lymphatic, nervous, reproductive, muscular, endocrine and sense organs. Prerequisite: RDT 110 and RDT 111.	
RDT 123	1:1:0
Radiographic Image Presentation I	
Course covers the necessary skills to determine a radiograph's acceptability and to learn to correct errors. Content includes how to be independently responsible for assessing repeat imaging. Repeat radiographs will be brought to the didactic setting for self-evaluation and explanation. Other selected radiographs will be included. Prerequisite: RDT 110 and RDT 111.	
RDT 125	1:1:0
Exposure I	
Course covers factors that affect radiographic exposures and the principles and devices involved in technique formation. Content includes basic fundamentals of exposure concerned with production of the radiographic image; clinical correlation of these principles through laboratory experience; radiation production methods and radiation control to produce quality radiographs; and interaction of radiation and matter. Recommended: MAT 120.	
RDT 126	1:1:0
Radiographic Processing	
Course covers processing of the radiographic image. Content includes the design of the processing area, automatic processor function, film processing, silver recovery, digital processing, and quality control of the equipment.	
RDT 130	1:0:5
Procedures III and Lab	
Course covers proper positions for radiography of the vertebral column and pelvis. Content includes correlation of radiographs to proper positioning and laboratory assignments involving positioning. Prerequisite: RDT 120 and RDT 122.	
RDT 133	1:1:0
Cross-Sectional Anatomy	
Course introduces cross-sectional anatomy to the radiography student. Identification of vital anatomy and physiology will be presented through lectures and sample radiographs. Content includes the following sections: cranium and facial bones, neck, brain, thorax, spine, abdomen, and pelvis. Prerequisite: RDT 122.	
RDT 134	1:1:0
Film Evaluation I	
Course covers the basics of evaluating a given radiograph. Students assess a given film based on the basic criteria of given projections, proper positioning and centering, radiation protections, exposure techniques used, pathology, and film acceptability. Prerequisite: RDT 110 and RDT 120.	
RDT 135	2:2:0
Exposure II	
Course continues the fundamentals learned in Exposure I. Focus is on the foundation of radiographic techniques based on established principles, formulas, and conversions. Content includes grids recorded detail distortion, contrast, and density, along with the relationship of techniques, equipment, and pathology. Prerequisite: RDT 125 and successful completion of Math Review Test.	

RDT 150	2:0:15
Clinical Education I	
Course covers hospital layout and department procedures. Content includes an introduction to radiographic rooms, file areas, darkroom, quality control area and reception desk. Students perform basic chest and abdomen procedures on patients while under the direct supervision of clinical instructors and technologists.	
RDT 160	2:0:15
Clinical Education II	
Clinical course covers radiography of minor contrast studies to include fluoroscopy and pyelography. Students gain additional hands-on experience and master previous clinical competencies in chest and abdomen studies. Also included is an introduction to surgical procedures. Prerequisite: RDT 110 and RDT 150.	
RDT 170	3:1:10
Clinical Education III	
Clinical course covers radiography of upper and lower extremities. Evening clinical hours are included to enhance skills with trauma patients. Students master skills in chest, abdomen, contrast studies, flouro and surgical abdominal cases. Prerequisite: RDT 120 and RDT 160.	
RDT 210	2:1:15
Procedures IV and Lab	
Course covers advanced radiologic positioning which includes bony thorax, cranium, sella turcica, orbits, mandible, temp-mandibular joints, temporal and facial bones. Prerequisite: RDT 130 and RDT 170.	
RDT 215	2:2:0
Radiologic Physics	
Course covers the basic principles of general physics and applies them to radiography. Also covered are electricity, magnetism, the production of x-rays, the properties of x-rays, radiographic equipment circuitry, x-ray beam characteristics, and units of measurement. Prerequisite: RDT 135.	
RDT 216	2:2:0
Exposure Calculations	
Course covers the basic formulas and techniques required for calculations in radiography. Content includes applications of basic density, contrast, detail, distortion, film-screen combinations, and grids. Calculators are required. Prerequisite: RDT 126 and RDT 135.	
RDT 217	2:2:0
Radiographic Image Presentation II	
Course covers a basic understanding of image intensified fluoroscopy, recording media, and techniques. Content includes tomography, computed tomography (CT), digital imaging, duplication and subtraction, and magnetic resonance imaging (MRI). Prerequisite: RDT 135.	
RDT 220	2:1:2
Procedures V and Lab	
Course covers specialized radiographic procedures including radiography of the reproductive system, special senses, nervous systems, arthrography, bronchography/bronchoscopy, pediatric imaging, mammography, and trauma. Prerequisite: RDT 122, RDT 210 and RDT 250.	

RDT 221	1:1:0
Computer Applications in Radiography	
Course covers the various computer informational/review programs in radiography. Individual work is required for each of the computer sections. Course prepares the students for the registry review course. Prerequisite: RDT 126.	
RDT 223	1:1:0
Radiographic Image Presentation III	
Course is an extension of RDT 123 and covers the skills needed to determine a radiograph's acceptability and to learn to correct errors. Students will learn how to be independently responsible for assessing repeat imaging. Repeat radiographs and other selected radiographs will be brought to the didactic setting for self-evaluation and explanation. Prerequisite: RDT 217 and RDT 220.	
RDT 225	2:2:0
Radiation Biology	
Course covers the effects of ionizing radiation on living tissue. Content includes radiation effects on cells, factors affecting cell response, and acute and chronic effects of radiation. This course provides a basic background for radiation biology radiographers and presents examples of human accidental exposure. Prerequisite: RDT 105 and RDT 122.	
RDT 228	1:1:0
Quality Control	
Course covers quality assurance and quality control measures used within radiography departments. Content includes governing organizations, regulations, test tools, and methods of application. This course includes information required for equipment operation and maintenance. Prerequisite: RDT 135.	
RDT 230	2:2:0
Pathology	
Course introduces the student to the concepts of disease, systemic classifications, complication, and prognosis of disease. Content includes the effects of pathology on radiographs and radiographic technique. Prerequisite: RDT 220.	
RDT 234	2:2:0
Film Evaluation II	
Course is a continuation of RDT 134 and covers the basics of evaluating a given radiograph. Students access a given film based on the basic criteria of given projections, proper positioning and centering, radiation protections, exposure techniques used, pathology, and film acceptability. Prerequisite: RDT 220.	
RDT 250	3:1:10
Clinical Education IV	
Course is an extension of RDT 170, with an emphasis on the vertebral column and mastering upper and lower extremities. Evening and weekend clinical hours are included to enhance skills with trauma patients. Students rotate through surgery to strengthen technical skills and are given a one-week ancillary rotation to introduce other imaging modalities such as MRI or ultrasound. Prerequisite: RDT 130 and RDT 170.	
RDT 260	3:1:10
Clinical Education V	
Clinical course covers radiography of the cranium and mastery of vertebral skills. Evening and weekend clinical hours are included to enhance skills with trauma patients. Students rotate through surgery to strengthen technical skills, rotate through CT, and have an optional rotation to introduce additional radiographic modalities. Content includes phlebotomy skills. Prerequisite: RDT 210 and RDT 250.	

RDT 270

2:0:10

Clinical Education VI

Clinical course covers a review of all aspects of diagnostic radiography. Students are indirectly supervised in general and fluoroscopic room procedures. Students will be directly supervised during surgical radiographic procedures with emphasis on c-arm competency. Prerequisite: RDT 220 and RDT 260.

RDT 280

3:3:0

Registry Review

Course prepares students for the American Registry Examination. It reviews content from the first 20 months of the program. Mock registry and specific content examinations are used. Prerequisite: RDT 260.

## **SPEECH**

*Course additions:*

SPE 126

3:3:0

Basic Sign Language II

Course continues and expands on the fundamentals of American Sign Language. The focus is on sign language vocabulary, expressive and receptive communication, fingerspelling, and ASL grammar used by Deaf Americans. Course is designed for students with at least one previous course in ASL. Prerequisite: SPE 125 or equivalent with minimum grade of C.

SPE 140

3:3:0

Professional Presentations

Course introduces students to the rhetorical principles and strategies required to produce and present multimedia material.

