ADDENDUM NO. 5

TO

2010-2011
KEISER UNIVERSITY CATALOG
VOLUME 10, NO. 1

Effective June 7, 2011

KEISER UNIVERSITY
CATALOG ADDENDUM

TABLE OF CONTENTS

Keiser University continually reviews, improves and updates its programs, courses and curricula. It is incumbent on the University to reflect these revisions in its publications. The following *Addendum No. 5* represents additions, changes and deletions to the *2010-2011 Keiser University Catalog*, August 2010 Edition, Volume 10, No. 1, and is effective June 7, 2011.

PAGE 1 AND BACK COVER

Replace Keiser University Kendall information with the following:

Keiser University, Miami
2101 NW 117th Avenue
Miami, Florida 33172
(305) 596-2226

PAGE 13-15, LICENSURE AND ACCREDITATION

Remove "LICENSURE AND" verbiage from the "LICENSURE AND ACCREDITATION" heading. Delete the first paragraph.

Add "Sarasota" to the Keiser University Center for Culinary Arts accreditation statement to read as follows:

- Keiser University Center for Culinary Arts, Sarasota, Tallahassee and Melbourne campuses, is accredited by the American Culinary Federation, Inc., 180 Center Place Way, St. Augustine, Florida 32095, (904) 824-4468, www.acfchefs.org.

Add the following verbiage:

- Keiser University's Physical Therapist Assistant program at Sarasota and Jacksonville campuses has been granted Candidate for Accreditation status by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association (1111 North Fairfax Street, Alexandria, VA, 22314; phone 703-706-3245; email: accreditation@apta.org). Candidacy is not an accreditation status nor does it assure eventual accreditation. Candidate for Accreditation is a pre-accreditation status of affiliation with the Commission on Accreditation in Physical Therapy Education that indicates the program is progressing toward accreditation.

PAGE 15, LICENSURE AND ACCREDITATION

Insert the following bullet AFTER the NLNAC nursing accreditation:

- Keiser University's Bachelor of Science in Nursing (RN to BSN) program is accredited by the Commission on Collegiate Nursing Education (CCNE), One Dupont Circle, NW, Suite 530, Washington, DC 20036-1120, (202) 887-6791, www.aacn.nche.edu.

Replace the entry on the Occupational Therapy Assistant program with the following:

Keiser University's Occupational Therapy Assistant program, Ft. Lauderdale, Kendall, Melbourne, Orlando, Pembroke Pines, Jacksonville and Daytona campuses, are fully accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA). Tallahassee, Tampa and West Palm Beach campus have been granted "developing program status" during the year 2010-2011. ACOTE can be reached at Accreditation Council for Occupational Therapy Education, 4720 Montgomery Lane, or P.O. Box 31220, Bethesda, Maryland 20824-1220, (301) 652-AOTA www.acoteonline.org .

Insert the following AFTER Physical Therapist Assistant, Fort Lauderdale:

The Physical Therapist Assistant Program at Keiser University's Jacksonville Campus has been granted Candidate for Accreditation status by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association (1111 North Fairfax Street, Alexandria, VA, 22314; phone: 703-706-3245; email: accreditation@apta.org). Candidacy is not an accreditation status nor does it assure eventual accreditation. Candidate for Accreditation is a pre-accreditation status of affiliation with the Commission on Accreditation in Physical Therapy Education that indicates the program is progressing toward accreditation.

Keiser University Sarasota's Physical Therapist Assistant Program has been granted Candidate for Accreditation status by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association (1111 North Fairfax Street, Alexandria, VA, 22314; phone: 703-706-3245; email: accreditation@apta.org). Candidacy is not an accreditation status nor does it assure eventual accreditation. Candidate for Accreditation is a pre-accreditation status of affiliation with the Commission on Accreditation in Physical Therapy Education that indicates the program is progressing toward accreditation.

PAGE 19, GOVERNANCE

Replace this section with the following:

GOVERNANCE

Keiser University is a not-for-profit 501(c)(3) corporation incorporated in the State of Florida. Keiser University is managed and controlled by the Everglades College, Inc. Board of Trustees which is the legal entity responsible for policy and procedure promulgation, review and amendment.

Board of Trustees

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Tom Foster, President, ComputeNex Corporation

PAGE 22, DESCRIPTIONS OF FACILITIES AND EQUIPMENT

Change name of campus, location and description for Keiser University, Kendall to the following:

Keiser University, Miami

The Miami campus is located at 2101 NW 117th Avenue. The facilities consist of approximately 90,000 square feet, divided into three floors of classrooms, laboratories, an auditorium, conference rooms, bookstore, a library, administrative offices and student break areas, plus a 140,000 square foot parking garage. All equipment used at Keiser University is comparable to industry standards and effectively meets program objectives.

PAGE 29, PROGRAM-SPECIFIC ADMISSIONS REQUIREMENTS

Replace this section with the following:

All candidates must achieve the required entrance examinations scores and all other requirements for admission to specific bachelor and associate degree allied health programs.

PAGE 37, FLORIDA'S STATEWIDE COURSE NUMBERING SYSTEM

Replace this section with the following:

FLORIDA'S STATEWIDE COURSE NUMBERING SYSTEM

Courses in this catalog are identified by prefixes and numbers that were assigned by Florida's Statewide Course Numbering System (SCNS). This numbering system is used by all public postsecondary institutions in Florida and 28 participating non-public institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions. Students and administrators can use the online Statewide Course Numbering System to obtain course descriptions and specific information about course transfer between participating Florida institutions. This information is at the SCNS website at http://scns.fldoe.org.

Each participating institution controls the title, credit, and content of its own courses and recommends the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of the course numbers are assigned by members of faculty discipline committees appointed for that purpose by the Florida Department of Education in Tallahassee. Individuals nominated to serve on these committees are selected to maintain a representative balance as to type of institution and discipline field or specialization.

The course prefix and each digit in the course number have a meaning in the Statewide Course Numbering System (SCNS). The list of course prefixes and numbers, along with their generic titles, is referred to as the "SCNS taxonomy." Descriptions of the content of courses are referred to as "statewide course profiles."

Example of Course Identifier

Prefix	**Level Code** (first digit)	**Century Digit** (second digit)	**Decade Digit** (third digit)	**Unit Digit** (fourth digit)	**Lab Code**
ENC	**1**	**1**	**0**	**1**	
English Composition	Lower (Freshman) Level at this institution	Freshman Composition	Freshman Composition Skills	Freshman Composition Skills I	No laboratory component in this course

General Rule for Course Equivalencies

Equivalent courses at different institutions are identified by the same prefixes and same last three digits of the course number and are guaranteed to be transferable between participating institutions that offer the course, with a few exceptions. (Exceptions are listed below.)

For example, a freshman composition skills course is offered by 56 different postsecondary institutions. Each institution uses "ENC_101" to identify its freshman composition skills course. The level code is the first digit and represents the year in which students normally take the course at a specific institution. In the SCNS taxonomy, "ENC" means "English Composition," the century digit "1" represents "Freshman Composition," the decade digit "0" represents "Freshman Composition Skills," and the unit digit "1" represents "Freshman Composition Skills I."

In the sciences and certain other areas, a "C" or "L" after the course number is known as a lab indicator. The "C" represents a combined lecture and laboratory course that meets in the same place at the same time. The "L" represents a laboratory course or the laboratory part of a course, having the same prefix and course number without a lab indicator, which meets at a different time or place.

Transfer of any successfully completed course from one participating institution to another is guaranteed in cases where the course to be transferred is equivalent to one offered by the receiving institution. Equivalencies are established by the same prefix and last three digits and comparable faculty credentials at both institutions. For example, ENC 1101 is offered at a community college. The same course is offered at a state university as ENC 2101. A student who has successfully completed ENC 1101 at the community college is guaranteed to receive transfer credit for ENC 2101 at the state university if the student transfers. The student cannot be required to take ENC 2101 again since ENC 1101 is equivalent to ENC 2101. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed that have not been designated as equivalent. **NOTE**: Credit generated at institutions on the quarter-term system may not transfer the equivalent number of credits to institutions on semester-term systems. For example, 4.0 quarter hours often transfers as 2.67 semester hours.

The Course Prefix

The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or sub-category of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the assigned prefix to identify the course.

Authority for Acceptance of Equivalent Courses

Section 1007.24(7), Florida Statutes, states:

> Any student who transfers among postsecondary institutions that are fully accredited by a regional or national accrediting agency recognized by the United States Department of Education and that participate in the statewide course numbering system shall be awarded credit by the receiving institution for courses satisfactorily completed by the student at the previous institutions. Credit shall be awarded if the courses are judged by the appropriate statewide course numbering system faculty committees representing school districts, public postsecondary educational institutions, and participating nonpublic postsecondary educational institutions to be academically equivalent to courses offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or nonpublic control of the previous institution. The Department of Education shall ensure that credits to be accepted by a receiving institution are generated in courses for which the faculty possess credentials that are comparable to those required by the accrediting association of the receiving institution. The award of credit may be limited to courses that are entered in the statewide course numbering system. Credits awarded pursuant to this subsection shall satisfy institutional requirements on the same basis as credits awarded to native students.

Exceptions to the General Rule for Equivalency

Since the initial implementation of the SCNS, specific disciplines or types of courses have been excepted from the guarantee of transfer for equivalent courses. These include varying topics courses that must be evaluated individually, or applied courses in which the student must be evaluated for mastery of skill and technique. The following courses are exceptions to the general rule for course equivalencies and may not transfer. Transferability is at the discretion of the receiving institution.

A. Courses not offered by the receiving institution.
B. For courses at non-regionally accredited institutions, courses offered prior to the established transfer date of the course in question.
C. Courses in the _900-999 series are not automatically transferable, and must be evaluated individually. These include such courses as Special Topics, Internships, Apprenticeships, Practica, Study Abroad, Thesis and Dissertations.
D. College preparatory and vocational preparatory courses.
E. Graduate courses.

F. Internships, apprenticeships, practica, clinical experiences and study abroad courses with numbers other than those ranging from 900-999.
G. Applied courses in the performing arts (Art, Dance, Interior Design, Music, and Theatre) and skills courses in Criminal Justice (academy certificate courses) are not guaranteed as transferable. These courses need evidence of achievement (i.e., portfolio, audition, interview, etc.).

Courses at Nonregionally Accredited Institutions

The Statewide Course Numbering System makes available on its home page (http://scns.fldoe.org) a report entitled "Courses at Nonregionally Accredited Institutions" that contains a comprehensive listing of all nonpublic institution courses in the SCNS inventory, as well as each course's transfer level and transfer effective date. This report is updated monthly.

Questions about the Statewide Course Numbering System and appeals regarding course credit transfer decisions should be directed to Dr. David Kreitner in the Office of the Chancellor, Academic Affairs Department, or the Florida Department of Education, Office of Articulation, 1401 Turlington Building, Tallahassee, Florida 32399-0400. Special reports and technical information may be requested by calling the Statewide Course Numbering System office at (850) 245-0427 or via the internet at http://scns.fldoe.org.

PAGE 61, CAMPUS SAFETY

Insert the following after the first paragraph:

Annual Security Report

In compliance with the 34 CFR 668.41 and 34 CFR 668.46 2008 federal regulation amendments, the following is the electronic address at which Keiser University's Annual Security Report is posted:
http://www.keiseruniversity.edu/safetyandsecurity/annual-security-report.php
The Annual Security Report contains crime statistics and describes institutional security policies. Upon request the institution will provide a hard copy of the report.

PAGE 70, NEW SECTION

Insert the following new section after the section titled "DRUG POLICY":

FIREARMS POLICY

Certified Florida law enforcement officers are the only people permitted to possess a gun or weapon of any kind on any Keiser University campus. Any other possession of a weapon of any kind for any reason by anyone on a Keiser University campus is strictly prohibited. The above stated policy provides an exception only in the case of Keiser University students who are certified Florida law enforcement officers currently employed by a recognized Florida law enforcement agency. There are no other exceptions to this policy.

PAGE 84, SATISFACTORY ACADEMIC PROGRESS

Replace this section with the following:

Satisfactory Academic Progress for these specific Allied Health programs will be according to the policy stated below:

Diagnostic Medical Sonography
Diagnostic Vascular Sonography
Dietetics and Nutrition
Health Information Management
Histotechnology*
Nuclear Medicine Technology
Occupational Therapy Assistant
Physical Therapy Assistant
Radiation Therapy
Radiologic Technology

Respiratory Therapy
Surgical Technology

KEISER UNIVERSITY
ALLIED HEALTH PROGRAM

Satisfactory Progress and Program Continuation
The Allied Health Program has a set grading standard designed to assist graduates in achieving passing scores on the national certification examination and to demonstrate that the required core competencies have been achieved.

To enter the Allied Health program core component, the student must achieve a minimum cumulative GPA of 3.0, (on a 4.0 scale) in all general education courses. Earning a grade of "D" or "F" in any course, and/or not attaining a cumulative GPA of 3.0 (on a 4.0 scale) in the general education component will prevent the student from entering the program core. The student may elect to repeat a course in which a grade of "D" or "F" was received. Transfer credits from another institution will be calculated into this required general education cumulative GPA for admission into the program core.
To continue satisfactory progress in the Allied Health program, the student must achieve a minimum cumulative core GPA of 2.50 in the professional courses after completion of the first semester. If the student does not meet the required cumulative GPA of 2.50 for the first core semester the student will be placed on probation for the second semester.

At the end of the second semester all students must achieve a minimum core cumulative GPA of 2.75 or a semester GPA of 2.75 in order to continue in the program.

Students who do not meet the minimum cumulative core GPA requirement of 2.50 for the first semester and/or cumulative core GPA of 2.75 for the second semester may continue on probation for one additional semester even though their core cumulative GPA is below 2.75 provided he/she meets the minimum semester GPA of 2.75. Students must meet a cumulative core GPA of 2.75 for all subsequent semesters in order to continue in the program. Students who do not meet the 2.75 cumulative core GPA requirement for subsequent semesters will be permanently dismissed from the program.

**Students enrolled in the Histotechnology program are not required to complete general education courses prior to beginning the Histotechnology core courses. Therefore, these students are not required to achieve a minimum cumulative GPA of 3.0 in all general education courses prior to entering the program core component.*

PAGE 86, STANDARDIZED TESTING REQUIREMENTS

Remove the last row of the table, "Master of Business Administration".

PAGE 86-88, DEGREE REQUIREMENTS

Remove the verbiage "As required by the Commission for Independent Education in the State of Florida," from the beginning of the following paragraphs:

- **Bachelor of Arts**
- **Bachelor of Science**
- **Associate of Arts**
- **Associate of Science**

Revise the second paragraph under **Registry and Licensure Examinations** to read as follows:

Students are assessed a fee for required examination(s); such fees are eligible for Title IV funding. However, costs of examination retakes are a student responsibility. Program directors submit required paperwork in advance for each graduating class. Students are required to register for the examination(s) within 30 days of completing their program and sit for the examination within 90 days. If a program has multiple examinations, the first examination must be completed in 90 days and the second within 120 days.

PAGE 97, PROGRAMS OFFERED AT EACH CAMPUS/SARASOTA

Under **Associate of Arts**, insert the following:

Criminal Justice

PAGE 103, PH.D. ED LEADERSHIP PROGRAM DESCRIPTION

Dissertation Courses (12.0 credit hours)

Replace this section with the following:

EDR901A Dissertation	1.5 credit hours
EDR901B Dissertation	1.5 credit hours
EDR902A Dissertation	1.5 credit hours
EDR902B Dissertation	1.5 credit hours
EDR903A Dissertation	1.5 credit hours
EDR903B Dissertation	1.5 credit hours
EDR904A Dissertation	1.5 credit hours
EDR904B Dissertation	1.5 credit hours

PAGE 104, MA CRIMINAL JUSTICE MAJOR CORE COURSES

Change the titles of the following two courses as follows:

MACJ595	Capstone: Criminal Justice Thesis Part I (prerequisite MACJ590)	3.0 credit hours
MACJ600	Capstone: Criminal Justice Thesis Part II (prerequisite MACJ595, taken in last term)	3.0 credit hours

PAGE 106, MBA MAJOR CORE COURSES

Delete "(co requisite course)" from the listing for MBA501 Survey of Accounting.

PAGE 108-109, PROGRAM OBJECTIVES, MS EDUCATION

Replace this section with the following:

Program Objectives

Keiser University's MSEd program enables students to contribute to the education profession and fosters independent learning. Upon completion of this program, students are able to:

- Demonstrate theory-based and practical leadership in K-12, higher education, and related fields
- Incorporate critical thinking, scholarly writing, research, and technology in practice
- Design and evaluate curriculum, instruction, and program assessment
- Direct educational operations including classroom management, finance, human resources, and/or enrollment management
- Exhibit competency in professional practices including ethics, diversity, legal issues, and communication with all educational stakeholders

PAGE 110, MS PHYSICIAN ASSISTANT

Replace the program description with the following:

Program Description

Keiser University's Master of Science degree in Physician Assistant is an intense study of patient care theory, science and practice, combining didactic, laboratory, and clinical study and experience.

The first year is an intense study of basic sciences and clinically related didactic course work. The clinical year provides students with experience in emergency medicine, surgery, obstetrics and gynecology, pediatrics, psychiatry, family medicine, internal medicine, and two electives. Learner-centered activities will be used and include: independent and collaborative learning, experiential applications, case study analysis and problem-based instruction through simulations and model-based applications. Graduates are required to sit for the Physician Assistant National Certification Examination (PANCE) and eligible, upon successful completion of the PANCE, to be licensed and practice medicine under the supervision of a physician.

PAGE 112-13, MS PHYSICIAN ASSISTANT

Replace this section beginning with "Program Outline":

Program Outline

To receive a Master of Science in Physician Assistant degree, students must earn 138 graduate semester credit hours. The first year includes 84 semester credit hours of didactic and laboratory instruction. The second year includes 54 semester credit hours consisting of 45 semester credit hours of clinical rotations and 9 semester credit hours of coursework that includes a Graduate Project, Certification Examination Review, Introduction to Healthcare Research and Biostatistics, and Transition into Physician Assistant Practice.

No elective courses are offered in this program, although one elective clinical rotation is required. All program didactic and clinical hours must be completed through Keiser University. Program requirements are as follows:

Master of Science in Physician Assistant Major Core Courses (138.0 credit hours)

First Year-Didactic and Lab (84.0 credit hours)

MPA500	Introduction to the Physician Assistant Profession	1.0 credit hour
MPA501	Medical Terminology	1.0 credit hour
MPA502	Fundamentals of Diagnostic Methods	3.0 credit hours
MPA510	Physical Diagnosis I	3.0 credit hours
MPA511	Human Physiology	4.0 credit hours
MPA512	Clinical Pathophysiology	3.0 credit hours
MPA513	Human Anatomy	5.0 credit hours
MPA514	Applied Learning Experience	1.0 credit hour
MPA520	Physical Diagnosis II	3.0 credit hours
MPA521	Microbiology	3.0 credit hours
MPA522	Ethical and Legal Medicine	3.0 credit hours
MPA523	Clinical Pharmacology	2.0 credit hours
MPA524	Fundamentals of Clinical Medicine and Surgery I	5.0 credit hours
MPA525	Clinical Laboratory Medicine I	1.0 credit hour
MPA526	Psychosocial Issues in Healthcare	2.0 credit hours
MPA530	Physical Diagnosis III	3.0 credit hours
MPA531	Principles of Life Support and Electrocardiography	5.0 credit hours
MPA532	Clinical and Surgical Procedures	4.0 credit hours
MPA533	Pharmacotherapeutics I	4.0 credit hours
MPA534	Fundamentals of Clinical Medicine and Surgery II	6.0 credit hours
MPA535	Clinical Laboratory Medicine II	2.0 credit hours
MPA536	Health Promotion and Disease Prevention	2.0 credit hour
MPA537	Healthcare Policy	1.0 credit hour
MPA538	Medical Genetics	1.0 credit hour

MPA539	Alternative and Complementary Medicine	2.0 credit hours
MPA540	Clinical Psychiatry	3.0 credit hours
MPA543	Pharmacotherapeutics II	3.0 credit hours
MPA544	Fundamentals of Clinical Medicine and Surgery III	8.0 credit hours

Second Year-Clinical and Didactic (54.0 credit hours)

MPA600	Prenatal/Gynecology CR	5.0 credit hours
MPA610	Internal Medicine CR	5.0 credit hours
MPA620	Surgery CR	5.0 credit hours
MPA630	Emergency Medicine CR	5.0 credit hours
MPA640	Pediatrics CR	5.0 credit hours
MPA650	Family Medicine CR	5.0 credit hours
MBA660	Psychiatry CR	5.0 credit hours
MPA670	Elective 1 CR	5.0 credit hours
MPA680	Elective 2 CR	5.0 credit hours
MPA515	Introduction to Healthcare Research and Biostatistics	3.0 credit hours
MPA690	Graduate Project	3.0 credit hours
MPA691	Certification Examination Review	2.0 credit hours
MPA692	Transition into Physician Assistant Practice	1.0 credit hour

PAGE 113-158, PROGRAM DESCRIPTIONS, BACHELOR OF ARTS AND BACHELOR OF SCIENCE DEGREES

Remove the following discontinued upper division courses and course descriptions:

- COM4022 Healthcare Communications
- CGS3163C Computers in Criminal Justice
- CGS3343C Management Information Systems for Health Organizations
- ENC3223 Business Writing for Accountants
- STA3143 Statistical Methods for Healthcare

PAGE 117, BA BUSINESS ADMINISTRATION PROGRAM DESCRIPTION

Under Lower Division Major Courses, change FIN2006 to FIN2001.

PAGE 125, PROGRAM DESCRIPTION HEALTH SERVICES ADMINISTRATION

Add the following course to the Upper Division Health Services Administration Major Courses:

FIN3373 Healthcare Finance	3.0 credit hours
HSA3150 Public Policy in Healthcare	3.0 credit hours
HSA3551 Ethics in Healthcare	3.0 credit hours

Remove the following courses from the Upper Division Health Services Administration Major Courses:

ACG3024 Accounting for Non-Financial Managers	3.0 credit hours
HSA3170 Financial Issues in Healthcare	3.0 credit hours
INP3004 Industrial Psychology	3.0 credit hours
INP3224 Workforce Diversity	3.0 credit hours

Replace the Upper Division General Education Courses with the following:

COM3131 Interpersonal Communications	3.0 credit hours
CGS3300 Management Information Systems	3.0 credit hours
ENC4313 Research Writing	3.0 credit hours

STA3163 Intermediate Statistics 3.0 credit hours

Revise the total credit hours in the Program Outline to 120.0 credit hours. Revise the Upper Division Health Services Administration Major Courses total credit hours to 48.0 credit hours. Revise the Upper Division General Education credit hours to 12.0 credit hours.

PAGE 131, CYBER FORENSICS/INFORMATION SECURITY PROGRAM DESCRIPTION

Insert the following before Dietetics and Nutrition:

CYBER-FORENSICS/INFORMATION SECURITY
Bachelor of Science Degree

Program Description

Keiser University's Bachelor of Science degree in Cyber Forensics/Information Security is a completion program for graduates of associate of science programs in computer-related fields. It provides students with the technical expertise and investigation skills required to detect and prevent cybercrimes. Students will also be able to assess system weaknesses and suggest solutions that will provide protection against cybercriminal attacks.

Program Objectives

The following objectives are designed to meet Keiser University's mission and its goals:

- To provide students with the knowledge, critical thinking skills and communication skills needed in the field of Cyber Forensics/Information Security.
- To assist students in becoming proficient in the use of information technology security tools and basic forensic techniques for the collection, preservation, analysis, and reporting of digital network evidence.
- To enhance students' ability to plan for, detect, respond to, and recover from incidences that require network forensic activity.
- To equip students with the skills needed to analyze the legal considerations for investigating and prosecuting computer crimes to develop a forensic process that is defensible in court.

Prerequisites for Major Courses

- Graduation from an accredited associate degree program in a computer-related field.
- The following lower division courses must be successfully completed before beginning upper division major courses. (Course equivalency is established by the dean of academic affairs from official transcripts received from accredited institutions)

ECO1023	Microeconomics
ENC2102	English Composition II
MAC2105	College Algebra
	OR
MGF2106	College Mathematics
PSY1012	Introduction to Psychology
STA2023	Statistics

- A minimum 24 semester credit hours of general education courses must be earned by students transferring in credits from another associate degree program.

PAGE 138, FORENSIC INVESTIGATIONS PROGRAM DESCRIPTION

Insert the following program description before Health Information Management:

FORENSIC INVESTIGATIONS
Bachelor of Science Degree

Program Description
Keiser University's Bachelor of Science degree in Forensic Investigations prepares students with competencies in the collection, preservation, and analysis of physical evidence for presentation in legal proceedings. The program provides students with the skills required to recognize relevant scientific information discoverable through forensic analysis of various types of physical evidence. Oral and written communications regarding the results of investigations and forensic analysis is also emphasized.

Program Objectives
The following objectives are designed to meet Keiser University's mission and its goals:

- To provide students with a comprehensive background in forensic investigative procedures and techniques.
- To instruct students in basic scientific concepts attributable to the natural and physical sciences.
- To provide students with a comprehensive background in the current use of natural and physical sciences in the solution of crime
- To provide students with a comprehensive background in criminal statutes, rules of criminal procedure, and rules of evidence which affect their capacity to testify effectively as expert witnesses in legal proceedings.
- To assist graduates in obtaining entry-level positions where their forensic investigation skills can be employed.

Prerequisites for Upper Division Major Courses
All lower division courses must be completed with a minimum grade average of 2.0 on a 4.0 scale. Entering students must achieve a Wonderlic Score (or comparable) of 20 or above for entrance into the program.

Graduation Requirements (in addition to Degree Requirements section of the catalog)
Successful completion of all upper division courses with a minimum grade average of 2.0 on a 4.0 scale.

Program Outline
To receive a Bachelor of Science degree in Forensic Investigations, students must earn a minimum of 135.0 semester credit hours as follows:

Lower Division Forensic Investigation Major Courses (36.0 credit hours)

CJE 1670C	Crime Scene Procedures	4.0 credit hours
CJB 1712C	Crime Scene & Evidence Photography	4.0 credit hours
CJT 1350C	Communication & Writing for the Crime Scene Professional	4.0 credit hours
CJT 2112C	Crime Scene Safety	4.0 credit hours
CJT 2113	Legal Aspects of Crime Scene Careers	4.0 credit hours
CJT 2122	Hazardous and Unusual Crime Scenes	4.0 credit hours
CJT 2141C	Introduction to Forensic Science	4.0 credit hours
CJT 2240C	Fingerprint Identification and Development	4.0 credit hours
CJT2260C	Biological Evidence	4.0 credit hours

Lower Division General Education Courses (41.0 credit hours)
Credit hours in parentheses include the required number of credit hours in each discipline.

Behavioral/Social Science (3.0 credit hours)

AMH1010	American History Pre 1876	3.0 credit hours
AMH1020	American History Since 1876	3.0 credit hours
IDS 1107	Strategies for Success	3.0 credit hours
POS1041	Political Science	3.0 credit hours
PSY1012	Introduction to Psychology	3.0 credit hours
SYG1000	Sociology	3.0 credit hours

Communications (3.0 credit hours)

SPC1010	Speech	3.0 credit hours

Computers (3.0 credit hours)

CGS1000C	Introduction to Computers	3.0 credit hours

English (6.0 credit hours)

ENC1101	English Composition I	3.0 credit hours
ENC2102	English Composition II	3.0 credit hours

Humanities/Fine Arts (3.0 credit hours)

AML1000	American Literature	3.0 credit hours
ENL1000	English Literature	3.0 credit hours

Mathematics (3.0 credit hours)

MAT 1033	Intermediate Algebra	3.0 credit hours

Natural Science (20.0 credit hours)

BSC1010	General Biology	3.0 credit hours
BSC1010L	General Biology Laboratory	1.0 credit hour
CHM1045	General Chemistry	3.0 credit hours
CHM1045L	General Chemistry Laboratory	1.0 credit hour
CHM1046	Advanced Chemistry	3.0 credit hours
CHM1046L	Advanced Chemistry Laboratory	1.0 credit hour
BSC2085C	Human Anatomy and Physiology I	4.0 credit hours
BSC2086C	Human Anatomy and Physiology II	4.0 credit hours

Upper Division Forensic Investigation Major Courses (52.0 credit hours)

FSI3000	Forensic Investigations	3.0 credit hours
FSI3100	Forensic Biology	3.0 credit hours
FSI3100L	Forensic Biology Laboratory	1.0 credit hour
FSI3200	Forensic Anthropology	3.0 credit hours
FSI3200L	Forensic Anthropology Laboratory	1.0 credit hour
FSI3300	Forensic Chemistry	3.0 credit hours
FSI3300L	Forensic Chemistry Laboratory	1.0 credit hour
FSI3400	Introduction to Criminalistics I	3.0 credit hours
FSI3400L	Introduction to Criminalistics I Laboratory	1.0 credit hour
FSI3450	Introduction to Criminalistics II	3.0 credit hours
FSI3450L	Introduction to Criminalistics II Laboratory	1.0 credit hour
FSI4000C	Digital Image Processing	3.0 credit hours
FSI4100C	Crime Scene Documentation	3.0 credit hours
FSI4200C	Unusual Crime Scenes	3.0 credit hours
FSI4300	Elements of Proof	3.0 credit hours
FSI4400	Court Procedure and Evidence	3.0 credit hours
FSI4500	Presentation of Evidence	3.0 credit hours
FSI4600	Crime Scene Analysis	3.0 credit hours
FSI4940	Forensic Investigations Externship I	4.0 credit hours
FSI4941	Forensic Investigations Externship II	4.0 credit hours

Upper Division Forensic Investigation General Education Courses (6.0 credit hours)

CGS3300	Management Information Systems	3.0 credit hours
ENC3213	Writing for Managers	3.0 credit hours

PAGE 141-143, BS HEALTH SCIENCE PROGRAM DESCRIPTION

Under "Prerequisites for Major Courses" add the following prerequisite:

- A minimum 24 semester credit hours of general education courses must be earned by students transferring credits from another associate degree program.

Revise second prerequisite to read as follows:

- Documentation of a minimum of six months post-graduate work experience in a related field

PAGE 143-145, BS INFORMATION TECHNOLOGY PROGRAM DESCRIPTION

Under "Prerequisites for Major Courses" add the following prerequisite:

- A minimum 24 semester credit hours of general education courses must be earned by students transferring credits from another associate degree program.

Revise second prerequisite to read as follows:

- Documentation of a minimum of six months post graduate work experience in a related field

PAGE 151, BS NETWORK SYSTEMS AND DATA COMMUNICATIONS

Insert the following before BS Nursing:

NETWORK SYSTEMS AND DATA COMMUNICATIONS
Bachelor of Science Degree

Program Description

Keiser University's Bachelors of Science in Network Systems and Data Communications provides a comprehensive program of study, designed to prepare graduates for entry-level positions in data operations and infrastructure planning environments. Network systems and data communications analysis pertains to the planning, designing, testing, implementation, and evaluation of network and data communications systems. Students are provided a hands-on collaborative learning curriculum based on industry led criteria. The program fosters the acquisition of systems-thinking and research skills necessary within a dynamic technical environment.

Program Objectives

The following objectives are designed to meet Keiser University's Mission and goals:

- Provide students with a comprehensive background in Network Systems and Data Communications procedures and techniques.
- Show students how to properly conduct research for recommending network and data communications hardware and software solutions.
- Provide the skill sets to analyze, design, test, and evaluate network systems.
- Assist graduates in obtaining entry-level positions in Network Systems and Data Communications Analysis and related fields.
- Develop the students' ability to communicate effectively and think critically.

Prerequisites for Major Courses

- None

Program Outline

To receive a Bachelor of Science degree in Network Systems and Data Communications, students must earn 143.0 semester credit hours. Program requirements are as follows:

Lower Division Network Systems and Data Communications Major Courses

(51.0 credit hours)

CET1171C	Service/Support PC Systems I	4.0 credit hours
CET1172C	Service/Support PC Systems II	4.0 credit hours

CTS1156C	Supporting Client Operating Systems	4.0 credit hours
CTS1305C	Essentials of Networking	4.0 credit hours
CTS1328C	Managing/Maintaining Server Op Sys	4.0 credit hours
CIS2350C	Principles of Information Security	4.0 credit hours
CTS2106C	Multi-User Operating Systems	4.0 credit hours
CTS2153C	Application Support	4.0 credit hours
CTS2302C	Implementing Directory Services	4.0 credit hours
CTS2304C	Internetworking Technologies	4.0 credit hours
CTS2306C	Implementing a Network Infrastructure	4.0 credit hours
COP2843C	Web Systems	4.0 credit hours
ACG1001	Accounting Principles I	3.0 credit hours

Lower Division General Education Requirements (32.0 credit hours)
Credit hours in parentheses indicate the required number of credit hours in each discipline.

Behavioral/Social Science (3.0 credit hours)

PSY1012	Introduction to Psychology	3.0 credit hours

Communication (3.0 credit hours)

SPC1010	Speech	3.0 credit hours

Computers (3.0 credit hours)

CGS1000C	Introduction to Computers	3.0 credit hours

English (6.0 credit hours)

ENC1101	English Composition I	3.0 credit hours
ENC2102	English Composition II	3.0 credit hours

Humanities/Fine Arts (3.0 credit hours)

AML1000	American Literature	3.0 credit hours
ENL1000	English Literature	3.0 credit hours

Mathematics (6.0 credit hours)

MAC2105	College Algebra	3.0 credit hours
STA2023	Statistics	3.0 credit hours

Natural Science (8.0 credit hours)

BSC2085C	Human Anatomy/Physiology I	4.0 credit hours
BSC2086C	Human Anatomy/Physiology II	4.0 credit hours

Upper Division Network Systems and Data Communications Major Courses
(48.0 credit hours)

CTS3437C	SQL Server Administration	3.0 credit hours
CTS3370C	Designing a Virtual Infrastructure	3.0 credit hours
CTS3817C	Web Server Administration	3.0 credit hours
CTS4323C	Enterprise Planning & Optimization	3.0 credit hours
CTS4321C	Advanced Linux Administration	3.0 credit hours
ISM3112	Systems Analysis	3.0 credit hours
CTS4113	Wireless Networks and Mobile Computing	3.0 credit hours
ISM4212	Database Management Systems	3.0 credit hours
CIS4352C	Ethical Hacking	3.0 credit hours
CTS4652C	Advanced Routing Technology	3.0 credit hours
MAN4583	Project Management	3.0 credit hours
ISM4300	Information Technology Management	3.0 credit hours

CTS3330C	Implementing a Messaging Infrastructure	3.0 credit hours
CET3482C	IP Telephony	3.0 credit hours
ISM4113	Systems Design	3.0 credit hours
ISM4130	Information Systems Implementation	3.0 credit hours

Upper Division General Education Courses (12.0 credit hours)

CBS3362	Organization and Technology of Information Systems	3.0 credit hours
STA3163	Statistics	3.0 credit hours
ENC3213	Professional Writing	3.0 credit hours
IDS3355	Critical Thinking	3.0 credit hours

PAGE 151, BS NURSING PROGRAM DESCRIPTION

Replace this section with the following program description:

NURSING
Bachelor of Science Degree Online

Program Description

Keiser University's Bachelor of Science degree in Nursing (RN to BSN) is designed as a degree completion program for registered nurses. It emphasizes critical thinking, leadership, management, research, physical assessment, and health promotion across a variety of community-based healthcare settings. The curriculum provides registered nurses with a better understanding of the cultural, political, economic, and social issues that affect patients and influence healthcare delivery through both online classroom and clinical components.

Program Objectives

The following objectives are designed to meet Keiser University's mission and its goals:

- To develop critical thinkers who are able to creatively engage in rational inquiry utilizing the nursing process in both well-defined, relatively common clinical situations and in complex clinical situations
- To develop skilled healthcare providers who are prepared to provide a higher level of nursing assessment in their direct or indirect care of ethically, culturally and/or spiritually diverse patients and their families
- To develop effective collaborators of healthcare who are prepared to work in a leadership capacity to design and manage the care of individuals and their families
- To develop caring and therapeutic communicators who are prepared to utilize broadened tools of communication in advocating the comfort and self-determination of patients and their families
- To develop nursing professionals who practice nursing within a legal/ethical framework

Prerequisites for Major Courses

- Background check and drug screening where applicable.
- Graduation from either an associate degree nursing program or a diploma nursing program.
- Proof of current, active and non-restricted professional licensure as a registered nurse in the United States.
- The following lower division courses must be successfully completed with a grade of "C" or higher before beginning upper division major courses. Course equivalency is established by the Dean of Academic Affairs from official transcripts received from regionally accredited institutions.

MAC2105	College Algebra, MAT1033 Intermediate Algebra or STA2023 Statistics
ENC1101	English Composition I
SPC1010	Speech
AML1000	American Literature or ENL1000 English Literature
CGS1000C	Introduction to Computers
BSC2085C	Human Anatomy and Physiology I
BSC2086C	Human Anatomy and Physiology II
MCB2000C	Microbiology I

DEP2004 Lifespan Development

Program Outline
To receive a Bachelor of Science degree in Nursing, students must earn 60.0 upper division credit hours. All courses must be completed with a grade of "C" or higher to proceed successfully through the program. Program requirements are as follows:

NOTE: All lower division major and general education courses must be successfully completed before upper division courses are undertaken.

Upper Division Nursing Major Courses (42.0 credit hours)

NUR3065	Physical Assessment in Healthcare	3.0 credit hours
NUR3126	Pathophysiology I	3.0 credit hours
NUR3127	Pathophysiology II	3.0 credit hours
NUR3516	Crisis Intervention	3.0 credit hours
NUR3655	Transcultural Factors in Healthcare Delivery	3.0 credit hours
NUR3805	Nursing Role and Scope	3.0 credit hours
NUR3826	Ethical and Legal Aspects of Nursing Practice	3.0 credit hours
NUR4165	Nursing Research	3.0 credit hours
NUR4286	Nursing and the Aging Family	3.0 credit hours
NUR4636	Community Nursing I	3.0 credit hours
NUR4637	Community Nursing II	3.0 credit hours
NUR4817	Nursing Roles Practicum	3.0 credit hours
NUR4827	Nursing Leadership and Management	3.0 credit hours
NUR4870	Nursing Informatics	3.0 credit hours

Upper Division General Education Courses (18.0 credit hours)

COM4022	Healthcare Communications	3.0 credit hours
ENC4313	Research Writing	3.0 credit hours
HUN3107	Nutrition	3.0 credit hours
IDS3355	Critical Thinking	3.0 credit hours
INP4203	Performance Evaluation	3.0 credit hours
STA3143	Statistical Methods for Healthcare	3.0 credit hours

PAGE 153-155 BS PUBLIC SAFETY ADMINISTRATION PROGRAM DESCRIPTION

Change the name of this major from PUBLIC SAFETY to PUBLIC SAFETY ADMINISTRATION.

Add the following prerequisite to Prerequisites for Major Courses:

- A minimum 24 semester credit hours of general education courses must be earned by students transferring credits from another associate degree program.

Remove the following Public Safety Major Courses:

MAT3044	Special Topics: Practical Problems in Mathematics for Emergency Services	3.0 credit hours
POS3063	Intergovernmental Relations	3.0 credit hours
POS4142	Urban Government Social Policy	3.0 credit hours

Add the following Public Safety Major Course:

DSC3056	Issues in Disaster Response	3.0 credit hours

Add the following Upper Division General Education Courses:

POS3063	Intergovernmental Relations	3.0 credit hours
POS4142	Urban Government Social Policy	3.0 credit hours

Revise the Program Outline and headings to reflect 48.0 credit hours of Public Safety Major Courses and 12.0 credit hours of upper division general education courses.

PAGE 155, BS SOFTWARE ENGINEERING PROGRAM DESCRIPTION

Insert the following before BS Sports Medicine and Fitness Technology:

SOFTWARE ENGINEERING
Bachelor of Science Degree

Program Description

Keiser University's Bachelor of Science in Software Engineering prepares students with the knowledge and practical skills to function in entry-level positions within the profession. Software engineering relates to the conceptualization, design, implementation, deployment and maintenance of software solutions (software development life cycle). At its core, the program seeks to provide the theoretical fundamentals of software development coupled with an appreciation and understanding of practical aspects and competencies required by industry. The program is designed to foster innovation through flexibility of software engineering as a business problem-solving discipline.

Program Objectives

The following objectives are designed to meet Keiser University's mission and goals:

- Provide students with a comprehensive background in software engineering procedures and techniques.
- Provide the theoretical and formal foundations to ensure precision in the software lifecycle.
- Instruct students in the validation and verification of Software artifacts
- Assist graduates in obtaining entry-level positions in the field of software engineering.
- Develop, within students, an appreciation for the importance of excellent business acumen and communication skills in a typical Software Engineering environment.

Prerequisites for Major Courses

- None

Program Outline

To receive a Bachelor of Science degree in Software Engineering, students must earn 137.0 semester credit hours. Program requirements are as follows:

Lower Division Software Engineering Major Courses (51.0 credit hours)

COP1800C	Java Programming I	4.0 credit hours
COP1805C	Java Programming II	4.0 credit hours
COP2360C	C# (Sharp) Programming I	4.0 credit hours
CTS1305C	Essentials of Networking	4.0 credit hours
COT1405C	Introduction to Algorithms	4.0 credit hours
CEN2010C	Software Engineering I - Introduction to Software Engineering Principles	4.0 credit hours
CTS2106C	Multi-User Operating Systems (Linux)	4.0 credit hours
CDA2100C	Computer Architecture	4.0 credit hours
CEN2721C	Human Computer Interface Design	4.0 credit hours
CEN2027C	Software Maintenance and Evolution	4.0 credit hours
COT 2104C	Discrete Mathematics and Probability	4.0 credit hours
COP2843C	Web Systems	4.0 credit hours
ACG1001C	Accounting Principles I	3.0 credit hours

Lower Division General Education Requirements (32.0 credit hours)
Credit hours in parentheses indicate the required number of credit hours in each discipline.

Behavioral/Social Science (3.0 credit hours)

PSY1012	Introduction to Psychology	3.0 credit hours

Communication (3.0 credit hours)

SPC1010	Speech	3.0 credit hours

Computers (3.0 credit hours)

CGS1000C	Introduction to Computers	3.0 credit hours

English (6.0 credit hours)

ENC1101	English Composition I	3.0 credit hours
ENC2102	English Composition II	3.0 credit hours

Humanities/Fine Arts (3.0 credit hours)

AML1000	American Literature	3.0 credit hours
ENL1000	English Literature	3.0 credit hours

Mathematics (6.0 credit hours)

MAC2105	College Algebra	3.0 credit hours
STA2023	Statistics	3.0 credit hours

Natural Science (8.0 credit hours)

BSC2085C	Human Anatomy/Physiology I	4.0 credit hours
BSC2086C	Human Anatomy/Physiology II	4.0 credit hours

Upper Division Software Engineering Major Courses (48.0 credit hours)

COP3610	Operating Systems	3.0 credit hours
CEN4230	Domain Specific Languages	3.0 credit hours
COT3205	Theory of Computation	3.0 credit hours
COP3650	Mobile Application Development	3.0 credit hours
CEN3011	Software Engineering II - Advanced Software Engineering	3.0 credit hours
CEN3064	Software Design	3.0 credit hours
CEN3410	Software Testing	3.0 credit hours
ISM4212	Database Management Systems	3.0 credit hours
COP4620	Compiler Construction	3.0 credit hours
CDA4125	Concepts of Parallel and Distributed Processing	3.0 credit hours
MAN4583	Project Management	3.0 credit hours
ACG3024	Accounting for Non-Financial Managers	3.0 credit hours
FIN3370C	Economics and Project Management for Software Engineers	3.0 credit hours
CEN4086	Cloud and Internet Computing	3.0 credit hours
CEN3016	Specification of Software Systems	3.0 credit hours

Upper Division General Education Courses (12.0 credit hours)

CBS3362	Organization and Technology of Information Systems	3.0 credit hours
STA3163	Statistics	3.0 credit hours
ENC3213	Professional Writing	3.0 credit hours
IDS3355	Critical Thinking	3.0 credit hours

PAGE 187, PROGRAM DESCRIPTIONS, DIAGNOSTIC MEDICAL SONOGRAPHY

Replace this section with the following:

DIAGNOSTIC MEDICAL SONOGRAPHY
Associate of Science Degree

An Associate of Science degree is considered a terminal degree. The decision on course transferability rests with the receiving institution.

Program Description

Keiser University's Associate of Science degree in Diagnostic Medical Sonography presents an integration of didactic, laboratory and clinical experiences. The program prepares students to function as entry-level diagnostic medical sonographers. Sonographers are highly skilled professionals qualified to provide patient services using diagnostic techniques under the supervision of a licensed doctor of medicine or osteopathy and assist physicians in gathering data necessary to reach diagnostic decisions.

Program Objectives

The following objectives are designed to meet Keiser University's mission and its goals:

- To develop students who are knowledgeable in general sonography
- To prepare students to perform appropriate two-dimensional, Doppler and other sonographic procedures and record data for interpretation by a physician
- To prepare students to act in a professional and ethical manner as entry-level sonographers
- To develop students who are knowledgeable in ultrasound physics and instrumentation

Prerequisites for Major Courses

- Background check and drug screening where applicable
- Completion of lower division general education courses with a minimum grade of "C" in each course
- Cumulative grade average of 3.0 on a 4.0 scale

Program Outline

To receive an Associate of Science degree in Diagnostic Medical Sonography, students must earn 91.0 credit hours. Program requirements are as follows:

Diagnostic Medical Sonography Major Courses (65.0 credit hours)

SON 1000C	Introduction to Diagnostic Medical Sonography	5.0 credit hours
SON 1100C	Practical Aspects of Sonography	5.0 credit hours
SON 1113C	Cross-Sectional Anatomy	5.0 credit hours
SON 1614C	Acoustic Physics and Instrumentation	5.0 credit hours
SON 1804	Clinical Rotation I	2.5 credit hours
SON 1814	Clinical Rotation II	2.5 credit hours
SON 1824	Clinical Rotation III	2.5 credit hours
SON 2009C	Diagnostic Medical Sonography Review	5.0 credit hours
SON 2111C	Abdominal Sonography	5.0 credit hours
SON 2120C	OB/GYN Sonography I	5.0 credit hours
SON 2122C	OB/GYN Sonography II	5.0 credit hours
SON 2150C	Ultrasound of Superficial Structures and Neonatal Brain	5.0 credit hours
SON 2171C	Introduction to Vascular Sonography	5.0 credit hours

SON 2834	Clinical Rotation IV	2.5 credit hours
SON 2844	Clinical Rotation V	2.5 credit hours
SON 2854	Clinical Rotation VI	2.5 credit hours

General Education Courses (26.0 credit hours)
Credit hours in parentheses indicate the required number of credit hours in each discipline.

Behavioral/Social Science (3.0 credit hours)

PSY1012	Introduction to Psychology	3.0 credit hours

Computers (3.0 credit hours)

CGS1000C	Introduction to Computers	3.0 credit hours

English (3.0 credit hours)

ENC1101	English Composition I	3.0 credit hours
ENC2102	English Composition II	3.0 credit hours

Humanities/Fine Arts (3.0 credit hours)

AML1000	American Literature	3.0 credit hours
ENL1000	English Literature	3.0 credit hours

Mathematics (3.0 credit hours)

MAT1033	Intermediate Algebra	3.0 credit hours

Natural Science (11.0 credit hours)

BSC2085C	Human Anatomy and Physiology I	4.0 credit hours
BSC2086C	Human Anatomy and Physiology II	4.0 credit hours
PHY2001	General Physics I	3.0 credit hours

PAGE 189, PROGRAM DESCRIPTIONS, DIAGNOSTIC VASCULAR SONOGRAPHY

Replace this section with the following:

DIAGNOSTIC VASCULAR SONOGRAPHY
Associate of Science Degree

An Associate of Science degree is considered a terminal degree. The decision on course transferability rests with the receiving institution.

Program Description
Keiser University's Associate of Science degree in Diagnostic Vascular Sonography integrates didactic, laboratory and clinical experiences. The program prepares students to function as entry-level vascular sonographers. Vascular sonographers are highly skilled professionals qualified to provide patient services using diagnostic techniques under the supervision of a licensed doctor of medicine or osteopathy. Sonographers assist physicians in gathering data necessary to reach diagnostic decisions.

Program Objectives
The following objectives are designed to meet Keiser University's mission and its goals:

- To develop students who are knowledgeable in vascular sonography
- To prepare students to perform appropriate physiologic, two-dimensional Doppler and other non-invasive vascular procedures and record data for interpretation by a physician
- To prepare students to act in a professional and ethical manner as entry-level sonographers.
- To develop students who are knowledgeable in ultrasound/vascular physics and instrumentation

Prerequisites for Major Courses

- Background check and drug screening where applicable
- Completion of lower division general education courses with a grade of "C" or higher in each course
- Cumulative grade average for general education courses of 3.0 on a 4.0 scale

Program Outline

To receive an Associate of Science degree in Vascular Sonography, students must earn 88.5 credit hours. Courses must be completed with a grade of "C" or higher to progress to the next course in the program. Program requirements are as follows:

Vascular Sonography Major Courses (62.5 credit hours)

SON1000C	Introduction to Diagnostic Medical Sonography	5.0 credit hours
SON1100C	Practical Aspects of Sonography	5.0 credit hours
SON1113C	Cross-Sectional Anatomy	5.0 credit hours
SON1614C	Acoustic Physics and Instrumentation	5.0 credit hours
SON1805	Vascular Clinical Rotation I	2.5 credit hours
SON1815	Vascular Clinical Rotation II	2.5 credit hours
SON1825	Vascular Clinical Rotation III	2.5 credit hours
SON2170C	Hemodynamics and Cerebrovascular Sonography	5.0 credit hours
SON2175C	Peripheral Vascular Sonography	5.0 credit hours
SON2176C	Abdominal Vascular Sonography	5.0 credit hours
SON2179	Vascular Sonography Review	5.0 credit hours
SON2400C	Introduction to Echocardiography	5.0 credit hours
SON2835	Vascular Clinical Rotation IV	2.5 credit hours
SON2845	Vascular Clinical Rotation V	2.5 credit hours
SON2855	Vascular Clinical Rotation VI	2.5 credit hours
SON2865	Vascular Clinical Rotation VII	2.5 credit hours

General Education Courses (26.0 credit hours)

Credit hours in parentheses indicate the required number of credit hours in each discipline.

Behavioral/Social Science (3.0 credit hours)

PSY1012	Introduction to Psychology	3.0 credit hours

Computers (3.0 credit hours)

CGS1000C	Introduction to Computers	3.0 credit hours

English (3.0 credit hours)

ENC1101	English Composition I	3.0 credit hours
ENC2102	English Composition II	3.0 credit hours

Humanities/Fine Arts (3.0 credit hours)

AML1000	American Literature	3.0 credit hours
ENL1000	English Literature	3.0 credit hours

Mathematics (3.0 credit hours)

MAT1033	Intermediate Algebra	3.0 credit hours

Natural Science (11.0 credit hours)

BSC2085C	Human Anatomy and Physiology I	4.0 credit hours
BSC2086C	Human Anatomy and Physiology II	4.0 credit hours

PHY2001 General Physics I 3.0 credit hours

PAGE 201-203, AS HISTOTECHNOLOGY PROGRAM DESCRIPTION

Add the following verbiage beneath the Histotechnology Major Courses:

Note: All major courses are sequential and must be completed with a grade of "C" or higher to advance to the next course.

PAGE 208, MEDICAL ASSISTING PROGRAM DESCRIPTION

Under "Prerequisites for Major Courses", delete "None" and replace with:

- Must take the Program Assessment Examination when scheduled, prior to Externship II

PAGE 219, PHYSICAL THERAPIST ASSISTANT PROGRAM DESCRIPTION

Replace this section with the following program descripton:

PHYSICAL THERAPIST ASSISTANT
Associate of Science Degree

An Associate of Science degree is considered a terminal degree. The decision on course transferability rests with the receiving institution.

Program Description

Keiser University's Associate of Science degree in Physical Therapist Assistant prepares students for employment as a skilled licensed health care worker under the supervision of a licensed Physical Therapist. A Physical Therapist Assistant assists in the management of conditions such as arthritis, amputation, fractures, cerebrovascular accident (stroke), spinal cord injuries, traumatic brain injuries, wounds, developmental delays, cerebral palsy, cardiac and pulmonary pathology, sport injuries, work injuries and other types of injuries and/or pathologies.

Program Objectives

The following objectives are designed to meet Keiser University's mission and its goals. Graduates of the program are prepared to enter the workforce as entry-level physical therapist assistants by:

- Implementing treatment programs as directed by a physical therapist;
- Competently performing data collection skills necessary for a plan of care;
- Effectively communicating with healthcare team members and patients verbally and in writing;
- Participating in patient education as directed by a physical therapist; and
- Demonstrating a commitment to learning.

Prerequisites for Major Courses

- Background check and drug screening when applicable
- Completion of general education courses with a minimum grade of "C" for each course and cumulative grade average of 3.0 on a 4.0 scale
- Obtain a minimum of a "B" in both Anatomy & Physiology I and II.
- Score a minimum of 20 on the University's entrance examination (Wonderlic).
- Provide documentation of having completed a minimum of 10 hours of physical therapy observation or work experience in a physical therapy department prior to starting core courses. The 10 hours observation must consist of 5 hours in a Skilled Nursing Facility (nursing home) and 5 hours in a Physical Therapy Outpatient Clinic within 1 year of beginning the PTA core.
- Attend 3 sessions of Study Skills Workshops as well as 2 sessions of Anatomy Workshops as scheduled by the University prior to the PTA core start.

Program Outline
To receive an Associate of Science degree in Physical Therapist Assistant, students must earn 74.0 credit hours. Each course in the PTA major is a prerequisite for the subsequent course and therefore must be completed with a grade of "C" or higher in order to proceed successfully through the program. Program requirements are as follows:

Physical Therapist Assistant Major Courses (48.0 credit hours)

PHT1000C	Introduction to Physical Therapist Assistant	5.0 credit hours
PHT1121C	Kinesiology	4.0 credit hours
PHT1216C	Functional Modalities	4.0 credit hours
PHT1227C	Therapeutic Exercise I	2.0 credit hours
PHT1228C	Therapeutic Exercise II	4.0 credit hours
PHT1251C	Patient Care Procedures	4.0 credit hours
PHT1261C	Tests and Measurements	4.0 credit hours
PHT1300	Medical Diseases	6.0 credit hours
PHT2143C	Rehabilitation	4.0 credit hours
PHT2801	Clinical Experience I	1.0 credit hour
PHT2810	Clinical Experience II	5.0 credit hours
PHT2820	Clinical Experience III	5.0 credit hours

General Education Courses (26.0 credit hours)
Credit hours in parentheses indicate the required number of credit hours in each discipline.

Behavioral/Social Science (3.0 credit hours)

PSY1012	Introduction to Psychology	3.0 credit hours

Communications (3.0 credit hours)

SPC1017	Speech Communications	3.0 credit hours

Computers (3.0 credit hours)

CGS1000C	Introduction to Computers	3.0 credit hours

English (3.0 credit hours)

ENC1101	English Composition I	3.0 credit hours
ENC2102	English Composition II	3.0 credit hours
CWL1000	Contemporary World Literature	3.0 credit hours

Humanities/Fine Arts (3.0 credit hours)

AML1000	American Literature	3.0 credit hours
ENL1000	English Literature	3.0 credit hours

Mathematics (3.0 credit hours)

MAT1033	Intermediate Algebra	3.0 credit hours

Natural Science (8.0 credit hours)

BSC2085C	Anatomy and Physiology I	4.0 credit hours
BSC2086C	Anatomy and Physiology II	4.0 credit hours

PAGES 240, CERTIFICATE IN ACCOUNTING ONLINE

Substitute the following for the paragraph under "Description":

Keiser University's Certificate in Accounting program offers students who are currently working in the accounting field the necessary coursework required to meet specific CPA licensure requirements. This Certificate requires 30

credit hours of upper division baccalaureate-level coursework. Topics include specialized accounting and business concepts.

PAGES 248-249, PH.D. ED LEADERSHIP COURSE DESCRIPTIONS

Replace the descriptions for the three dissertation courses with the following:

EDR901A (1.5 credit hours)

Dissertation

This course is designed for the doctoral researcher to complete the CITI training and to petition for the dissertation committee. Doctoral students will gain skills and demonstrate expertise in the writing of conceptually cogent Chapters 1 and 2. Researchers are provided with resources, guidance, peer and mentor support as they write their proposal and dissertation.

EDR901B (1.5 credit hours)

Dissertation

Continuation of course designed for the doctoral researcher to complete the CITI training and to petition for the dissertation committee. Doctoral students will gain skills and demonstrate expertise in the writing of conceptually cogent Chapters 1 and 2. Researchers are provided with resources, guidance, peer and mentor support as they write their proposal and dissertation.

EDR902A (1.5 credit hours)

Dissertation

This course is designed for the doctoral researcher to finalize and defend the proposal. Application for IRB approval will be made prior to conducting research approved by the committee and described in the proposal. Doctoral students will demonstrate expertise conducting conceptually cogent and methodologically rigorous research, analyzing findings, making recommendations, and generating appropriate conclusions.

EDR902B (1.5 credit hours)

Dissertation

Continuation of course designed for the doctoral researcher to finalize and defend the proposal. Application for IRB approval will be made prior to conducting research approved by the committee and described in the proposal. Doctoral students will demonstrate expertise conducting conceptually cogent and methodologically rigorous research, analyzing findings, making recommendations, and generating appropriate conclusions.

EDR903A (1.5 credit hours)

Dissertation

This course is designed for the doctoral researcher to conduct and analyze research approved by the committee and described in the proposal. Doctoral students will demonstrate expertise conducting conceptually cogent and methodologically rigorous research, analyzing findings, making recommendations, and generating appropriate conclusions, finalizing the dissertation. Dissertations are submitted to the researcher's committee for approval. After approval is received, with the guidance of the mentor, doctoral candidates complete their formal defense of the dissertation then prepare and submit the dissertation to the University for approval. Approved dissertations are prepared for publication. Researchers are provided with resources, guidance, peer and mentor support as they write their dissertation.

EDR903B (1.5 credit hours)

Dissertation

Continuation of course designed for the doctoral researcher to conduct and analyze research approved by the committee and described in the proposal. Doctoral students will demonstrate expertise conducting conceptually cogent and methodologically rigorous research, analyzing findings, making recommendations, and generating appropriate conclusions, finalizing the dissertation. Dissertations are submitted to the researcher's committee for approval. After approval is received, with the guidance of the mentor, doctoral candidates complete their formal defense of the dissertation then prepare and submit the dissertation to the University for approval. Approved

dissertations are prepared for publication. Researchers are provided with resources, guidance, peer and mentor support as they write their dissertation.

EDR904A (1.5 credit hours)
Dissertation
This course is designed for the doctoral researcher to conduct and analyze research approved by the committee and described in the proposal. Doctoral students will demonstrate expertise conducting conceptually cogent and methodologically rigorous research, analyzing findings, making recommendations, and generating appropriate conclusions, finalizing the dissertation. Dissertations are submitted to the researcher's committee for approval. After approval is received, with the guidance of the mentor, doctoral candidates complete their formal defense of the dissertation then prepare and submit the dissertation to the University for approval. Approved dissertations are prepared for publication. Researchers are provided with resources, guidance, peer and mentor support as they write their dissertation.

EDR904B (1.5 credit hours)
Dissertation
Continuation of course designed for the doctoral researcher to conduct and analyze research approved by the committee and described in the proposal. Doctoral students will demonstrate expertise conducting conceptually cogent and methodologically rigorous research, analyzing findings, making recommendations, and generating appropriate conclusions, finalizing the dissertation. Dissertations are submitted to the researcher's committee for approval. After approval is received, with the guidance of the mentor, doctoral candidates complete their formal defense of the dissertation then prepare and submit the dissertation to the University for approval. Approved dissertations are prepared for publication. Researchers are provided with resources, guidance, peer and mentor support as they write their dissertation. (Continuation of EDR904A)

PAGES 251-252, MA CRIMINAL JUSTICE MAJOR COURSE REQUIREMENTS

Replace these course descriptions with the following:

MACJ595 (3.0 credit hours)
Capstone: Criminal Justice Thesis Part I
Quantitative-including statistics- and qualitative methods for conducting and analyzing criminal justice research. Topics include how to write a literature review and how to read and interpret theoretical, statistical and research components of peer reviewed journal articles. This course prepares students for application of the research process in the Capstone Criminal Justice Thesis. The pre-proposal for the thesis must be approved by completion of this course. (pre-requisite MACJ590)

MACJ600 (3.0 credit hours)
Capstone: Criminal Justice Thesis Part II
A capstone course with emphasis on the social science research process in the area of Criminal Justice. This course includes a structured research project concerning a criminal justice issue or problem, a literature review and data collection, and presentation of findings. Prerequisites: MACJ590 and MACJ 595. Completion of 30 hours of Criminal Justice core courses. Must be taken in the last term of the Criminal Justice program.

PAGE 252-254, MBA MAJOR COURSE REQUIREMENTS

Replace the descriptions for these courses with the following:

MBA521 (3.0 credit hours)
Financial Management
Students learn fundamental principles and concepts of financial management. Various tools and cases are used to assist and train financial managers in decision-making. Topics include the analysis of risk and return, valuation of financial assets, capital budgeting applications, capital structure management, mergers and acquisitions, leveraged buyouts and working capital management. Co-requisite: MBA572 Prerequisite: MBA501

MBA531 (3.0 credit hours)

Marketing Management

Students gain the knowledge and skills necessary to understanding the critical role of marketing in successful organizations. Topics include segmentation analysis, target markets, positioning, marketing mix elements, supply chain, marketing communication and pricing. Co-requisite: MBA572

MBA542 (3.0 credit hours)

Business Research Methods

Students learn to conduct qualitative and quantitative research that contributes to business decision-making. Practical knowledge includes secondary data searches; questionnaire, interview, and case study design; data analysis and display; and written and oral reports. Business research ethics will be addressed. Co-requisite: MBA572

MBA551 (3.0 credit hours)

International Business

Students learn key aspects of the international business environment and their impact on creating opportunities and challenges for business. Topics include theories, institutions, conventions and agreements affecting international business, as well as effective strategies for improving business performance in the global market. Practical experience is gained through the analysis of real-world cases and projects. Co-requisite: MBA572

MBA562 (3.0 credit hours)

Business Information Systems

Case based analysis of a broad range of managerial as well as technical issues. Topics include technology, information systems high-level architecture, competitive advantage of information technology, software, information flow within organizations, electronic commerce systems, leadership decision support systems, ethical and legal aspects of IS, and successful development of business solutions. Co-requisite: MBA572

MBA571 (3.0 credit hours)

Organizational Behavior

Students focus on three factors that contribute to successful organizational performance: individual behavior, group/team behavior and organization-wide processes. Topics include ethics, diversity, communication, motivation, leadership, conflict management and organizational culture, structure and change. Learning activities emphasize practical application of organizational theory. Co-requisite: MBA572

MBA572 (3.0 credit hours)

Comparative Management

The comparative management course is a study of the upper-level concepts of the management functions in diverse business environments. Students focus is placed on the functional approach including planning, organizing, staffing, coordinating, directing, and controlling. The goals of the comparative management course are to evaluate the many management styles in the workplace today and analyze how each style has a different impact on employees. An analysis of the social, ethical, and economic consequences of managerial styles will be examined. Current management issues along with the impact of technology on the workplace, workplace ethics, and the restructuring of corporate America will be evaluated.

MBA581 (3.0 credit hours)

Managerial Economics

Students are given an overview of key influences in a company or industry task environment. The course analyzes the potential impact of these influences on profits and alternative strategies which are profitable and available to managers in a competitive environment. Topics include consumer behavior and its impact on demand and revenue, fixed and variable costs of production, competitive and non-competitive markets and their implications for business strategy and profitability and the importance of resource markets for labor and capital. Co-requisite: MBA572

PAGE 261, MS EDUCATION COURSE DESCRIPTIONS

Delete entry for EDU530.

PAGE 264, MS PHYSICIAN ASSISTANT COURSE DESCRIPTIONS

Replace MPA502 with the following:

MPA502 (3.0 credit hours)

Fundamentals of Diagnostic Methods

The basic principles of radiology and imaging techniques such as plain radiographs, ultrasound, computed tomography and MRI images are reviewed. Normal and abnormal findings on these commonly ordered studies are emphasized. This course teaches the student how to read and interpret various forms of diagnostic imaging. Prerequisites: MPA501, MPA510, MPA511, MPA513, MPA524, MPA534

PAGE 265, MS PHYSICIAN ASSISTANT COURSE DESCRIPTIONS

Replace description for MPA515 with the following:

MPA515 (3.0 credit hours)

Introduction to Healthcare Research and Biostatistics

This course prepares the physician assistant student with skills to understand research design, analyze research information and apply it to clinical practice, evaluate methods and techniques commonly used in health care, including problem selection, literature review, instrumentation, methodology, statistical analyses and the writing of research reports and articles. This includes the interpretation of published research, application of statistical analyses and application of research methodologies. Topics discussed in this course include: an overview and history of epidemiology, study designs, rates and proportions, contingency tables, measures of association, confounding and effect modification, infectious disease epidemic surveillance and evaluation of clinical tests. Prerequisites: MPA501

PAGE 267, MS PHYSICIAN ASSISTANT COURSE DESCRIPTIONS

Delete the description for MPA527.

PAGE 268, MS PHYSICIAN ASSISTANT COURSE DESCRIPTIONS

Replace MPA 536 with the following:

MPA536 (2.0 credit hour)

Health Promotion and Disease Prevention

This course will provide comprehensive discussions on the principles of health promotion and disease prevention. The student will focus on issues of screening, prophylaxis, patient education, risk factor assessment, counseling, immunization requirement. The US Preventative Health Task Force goals and objectives will be discussed. Recommended guidelines and strategies for early disease screening will be addressed using a population-specific frame of reference designed to compliment parallel learning experiences in Clinical Medicine, Physical Diagnosis, Genetics, Health Behavioral Counseling, Behavioral Dynamics, Women's Health and Pediatrics. Topics include control and prevention of communicable diseases relevant to the US population, toxicology, occupational health, environmental health, prevention of chronic conditions and violence as a public health problem. Prerequisites: MPA501, MPA510, MPA511, MPA513, MPA515, MPA524

PAGE 270-73, MS PHYSICIAN ASSISTANT COURSE DESCRIPTIONS

Replace these course descriptions with the following:

MPA600 (5.0 credit hours)

Prenatal/ Gynecology CR

This is a required five-week clinical rotation conducted in both the inpatient and outpatient settings. The physician assistant student while on this rotation will learn prenatal care, care of the Obstetric patient and assessment procedures for both maternal and fetal well being. The student will also learn about gynecological disorders, as well as the diagnosis, treatment and management of disorders that afflict both the gynecological and obstetric patients. This rotation emphasizes the pathophysiology, evaluation, diagnosis and management of systemic diseases and

surgical conditions unique to the clinical practice of Women's Health. Inclusion of proper data collection through history and physical examination, formulation of accurate problem lists, thorough investigation and development of treatment plans utilizing evidence based medicine as determined by review and analysis of current medical literature. Common gynecologic conditions, methods and effectiveness of contraception, cancer detection methods, and the diagnosis and treatment of sexually transmitted disease in the female are explored. The course also includes assigned readings and exercises. Prerequisites: MPA500, MPA501, MPA502, MPA510, MPA511, MPA512, MPA513, MPA520, MPA522, MPA523, MPA524, MPA525, MPA526, MPA531, MPA532, MPA533, MPA534, MPA535, MPA538, MPA539, MPA540, MPA543, MPA544

MPA610 (5.0 credit hours)

Internal Medicine CR

This is a required five-week clinical rotation conducted in both the inpatient and outpatient setting. The purpose of this rotation is to educate the physician assistant student in the diagnosis, management, and treatment of acute and chronic medical problems seen in the internal medicine practice. This rotation emphasizes the pathophysiology, evaluation, diagnosis and management of systemic diseases and surgical conditions unique to the clinical practice of Internal Medicine. Inclusion of proper data collection through history and physical examination, formulation of accurate problem lists, thorough investigation and development of treatment plans utilizing evidence based medicine as determined by review and analysis of current medical literature. The course also includes assigned readings and exercises. Prerequisites: MPA500, MPA501, MPA502, MPA510, MPA511, MPA512, MPA513, MPA520, MPA522, MPA523, MPA524, MPA525, MPA526, MPA531, MPA532, MPA533, MPA534, MPA535, MPA538, MPA539, MPA540, MPA543, MPA544

MPA620 (5.0 credit hours)

Surgery CR

This is a required five-week clinical rotation conducted in both the clinical and hospital setting.
This clinical rotation will provide an orientation to the diagnosis and management of health conditions best alleviated by surgical intervention. Preoperative care is emphasized along with the care of surgical wounds and minimizing post-operative complications. This rotation emphasizes the pathophysiology, evaluation, diagnosis and management of systemic diseases and surgical conditions unique to the clinical practice of Surgery. Inclusion of proper data collection through history and physical examination, formulation of accurate problem lists, thorough investigation and development of treatment plans utilizing evidence based medicine as determined by review and analysis of current medical literature. The course also includes assigned readings and exercises. Prerequisites: MPA500, MPA501, MPA502, MPA510, MPA511, MPA512, MPA513, MPA520, MPA522, MPA523, MPA524, MPA525, MPA526, MPA531, MPA532, MPA533, MPA534, MPA535, MPA538, MPA539, MPA540, MPA543, MPA544,

MPA630 (5.0 credit hours)

Emergency Medicine CR

This is a required five-week clinical rotation which takes place in the Emergency department setting. This rotation will provide an introduction to the appropriate triage and management of trauma and acute medical problems in both children and adults. Students will learn to establish priorities while simultaneously diagnosing and treating critically ill patients. Physical examination skills and mastery of techniques and procedures essential to managing life-threatening illness and injury are emphasized. Basic and advanced ventilatory assistance, cardiopulmonary resuscitation, fluid and electro-lyte management are stressed. This rotation emphasizes the pathophysiology, evaluation, diagnosis and management of systemic diseases and surgical conditions unique to the clinical practice of Emergency Medicine. Inclusion of proper data collection through history and physical examination, formulation of accurate problem lists, thorough investigation and development of treatment plans utilizing evidence based medicine as determined by review and analysis of current medical literature. Laboratory sessions are used to familiarize the student with aseptic technique and basic surgical procedures such as airway control, various catheter placements, surgical bleeding control and wound management. The course also includes assigned readings and exercises. Prerequisites: MPA500, MPA501, MPA502, MPA510, MPA511, MPA512, MPA513, MPA520, MPA522, MPA523, MPA524, MPA525, MPA526, MPA531, MPA532, MPA533, MPA534, MPA535, MPA538, MPA539, MPA540, MPA543, MPA544

MPA640 (5.0 credit hours)

Pediatrics CR
This is a required five-week clinical rotation conducted in outpatient and/or inpatient setting.
This rotation provides an examination of the child development from birth to adolescence. The well-child examination along with the recognition and management of common childhood illness as well as health maintenance, psycho-social and behavioral issues parent and patient education will be stressed. This rotation emphasizes the pathophysiology, evaluation, diagnosis and management of systemic diseases and surgical conditions unique to the clinical practice of Pediatrics. Inclusion of proper data collection through history and physical examination, formulation of accurate problem lists, thorough investigation and development of treatment plans utilizing evidence based medicine as determined by review and analysis of current medical literature. The course also includes assigned readings and exercises. Prerequisites: MPA500, MPA501, MPA502, MPA510, MPA511, MPA512, MPA513, MPA520, MPA522, MPA523, MPA524, MPA525, MPA526, MPA531, MPA532, MPA533, MPA534, MPA535, MPA538, MPA539, MPA540, MPA543, MPA544

MPA650 (5.0 credit hours)
Family Medicine CR
This is a required five-week clinical rotation conducted in primarily an outpatient setting.
This rotation will entail integration of the biologic, psychiatric and social aspects of medicine with the practice of outpatient care for patients of all ages. Care of underserved, chronically ill, and medically vulnerable patient populations will be the center of focus. Students will integrate family systems theory with the practice areas of outpatient medicine, pediatrics, obstetrics and gynecology. This rotation emphasizes the pathophysiology, evaluation, diagnosis and management of systemic diseases and surgical conditions unique to the clinical practice of Family Medicine. Inclusion of proper data collection through history and physical examination, formulation of accurate problem lists, thorough investigation and development of treatment plans utilizing evidence based medicine as determined by review and analysis of current medical literature. The course also includes assigned readings and exercises. Prerequisites: MPA500, MPA501, MPA502, MPA510, MPA511, MPA512, MPA513, MPA520, MPA522, MPA523, MPA524, MPA525, MPA526, MPA531, MPA532, MPA533, MPA534, MPA535, MPA538, MPA539, MPA540, MPA543, MPA544

MPA660 (5.0 credit hours)
Psychiatry CR
This is a required five-week clinical rotation conducted in both the inpatient and outpatient clinical setting. This supervised clinical rotation provides the student the opportunity to see a variety of patients with mental health problems. The Psychiatry rotation allows the student to experience assessing and counseling patients with a variety of behavioral and psychological conditions, as well as the opportunity to participate in treatment-plan formulation and exploration of social and community resources. This rotation emphasizes the pathophysiology, evaluation, diagnosis and management of systemic diseases and surgical conditions unique to the clinical practice of Psychiatry. Inclusion of proper data collection through history and physical examination, formulation of accurate problem lists, thorough investigation and development of treatment plans utilizing evidence based medicine as determined by review and analysis of current medical literature. The course also includes assigned readings and exercises. Prerequisites: MPA500, MPA501, MPA502, MPA510, MPA511, MPA512, MPA513, MPA520, MPA522, MPA523, MPA524, MPA525, MPA526, MPA531, MPA532, MPA533, MPA534, MPA535, MPA538, MPA539, MPA540, MPA543, MPA544.

MPA670 (5.0 credit hours)
Elective 1 CR
This is a required five-week clinical rotation that allows the student the opportunity to either choose a new field of study or to explore and gain intensive experience in one of the core practice areas of medicine. The Physician Assistant Program must approve clinical rotation placements. This rotation emphasizes the pathophysiology, evaluation, diagnosis and management of systemic diseases and surgical conditions unique to the clinical practice of Medicine. Inclusion of proper data collection through history and physical examination, formulation of accurate problem lists, thorough investigation and development of treatment plans utilizing evidence based medicine as determined by review and analysis of current medical literature. The course also includes assigned readings and exercises. Prerequisites: MPA500, MPA501, MPA502, MPA510, MPA511, MPA512,

MPA680 (5.0 credit hours)

Elective 2 CR
This is a required five-week clinical rotation that allows the student the opportunity to either choose a new field of study or to explore and gain intensive experience in one of the core practice areas of medicine. The Physician Assistant Program must approve clinical rotation placements. This rotation emphasizes the pathophysiology, evaluation, diagnosis and management of systemic diseases and surgical conditions unique to the clinical practice of Medicine. Inclusion of proper data collection through history and physical examination, formulation of accurate problem lists, thorough investigation and development of treatment plans utilizing evidence based medicine as determined by review and analysis of current medical literature. The course also includes assigned readings and exercises. Prerequisites: MPA500, MPA501, MPA502, MPA510, MPA511, MPA512, MPA513, MPA520, MPA522, MPA523, MPA524, MPA525, MPA526, MPA531, MPA532, MPA533, MPA534, MPA535, MPA538, MPA539, MPA540, MPA543, MPA544

PAGE 289-293, BA HEALTH SERVICES ADMINISTRATION COURSE DESCRIPTIONS

Add the following course description:

FIN3373 (3.0 credit hours)
Healthcare Finance
Analysis of the financial condition of health care organizations using financial ratios based on balance sheets, income statements, and statements of cash flows. Interpretation of financial ratios using industry wide comparisons. Exploration of the dynamics of altering financial condition through strategic service and financial management, budgeting, and cost-control. Case Studies.

HSA3150 (3.0 credit hours)
Public Policy in Healthcare
Presents health policy in the U.S. Topics include the evolution of the U.S. health care system, policy development, role of government in financing and maintaining quality healthcare, current health policy issues and impact on patients and healthcare delivery.

HSA3551 (3.0 credit hours)
Ethics in Healthcare
Explores ethical behavior in various health care settings. Students will analyze decision making models, theories, professional obligations and apply them to their roles as health care administrators.

PAGE 301, CYBER FORENSICS/INFORMATION SECURITY COURSE DESCRIPTIONS

Insert the following before Dietetics and Nutrition:

CYBER FORENSICS/INFORMATION SECURITY

Bachelors of Science Degree
Major Course Requirements

ACG3024 (3.0 credit hours)
Accounting for Non-Financial Managers
Addresses the use of accounting information by non-financial managers. Topics include interpretation of accounting information and the language of financial accounting to effectively participate in activities such as planning, investment, control and managerial decision making.

BUL3130 (3.0 credit hours)
Legal and Ethical Environment of Business
Presents the ethical and legal issues of business including contracts, agency law and investor protection.

CIS4253 (3.0 credit hours)

Ethics in Information Technology

An introduction to the basic ethical precepts of the information professions and the importance of ethics. This course examines many ethical issues in IT such as computer and Internet crime, privacy, freedom of expression, intellectual property, and employer/employee issues.

CIS4365 (3.0 credit hours)

Computer Security Policies and Disaster Preparedness

Addresses computer security policies including specific plans for disaster preparedness in computing. Topics include professional responses to security breaches or destructive acts of nature. Students study existing policies and use and develop software for creating and tracking these policies and plans.

ISM3112 (3.0 credit hours)

Systems Analysis

Trains students to assume the role of a system analyst in a MIS organization. Students learn to recognize and identify problems and opportunities in a company which might benefit from the application of information technology. Once identified, a problem is investigated and thoroughly analyzed. A business justification for possible solutions is then performed and presented to management for approval. As a term project, students investigate a real problem in a community organization and recommend the best course of action.

CJL4133 (3.0 credit hours)

Criminal Evidence and Procedures

Expands courtroom strategies and techniques and examines real-life cases that have shaped criminal law and procedures in America today.

ISM4113 (3.0 credit hours)

Systems Design

Expands on ISM 3112 (Systems Analysis). Students are taught to design an information system for a company or agency of their choice. Students learn development methodologies such as Waterfall, Prototyping, RAD, Object-Oriented Design, and UML. Using the most appropriate methodology, a team designs system output, input, processing and a database for the new system. Students create a design deliverable document and present their findings to management. Prerequisite: ISM 3112

CJE4692 (3.0 credit hours)

Technology and Crime

Examines technological innovations and their impact on crime and law enforcement. Topics include recent forensic improvements, surveillance and detection equipment, biometric devices, computer mapping and database tools, and a study of the Internet as a tool of both criminals and law enforcement.

CCJ4644 (3.0 credit hours)

White-Collar and Economic Crime

Examines corporate fraud, consumer scams, money laundering and other wide-reaching economic crimes. Topics include definitions of these crimes and methods used by law enforcement to combat them.

ISM4212 (3.0 credit hours)

Database Management Systems

Describes how data is created, stored, and manipulated in business using relational database management systems. Students become proficient at modeling databases at a conceptual and physical level of design and are able to develop database schemas that enforce data integrity. Students become knowledgeable in the creation, altering and manipulation of tables, indexes and views using relational algebra and SQL.

ISM4302 (3.0 credits hours)

Information Technology Planning

Reviews alternatives used by management and consulting firms to conduct an information systems strategic planning process. Key to the success of this process is an understanding of the current infrastructure, the culture of the organization, the desired future state as defined by senior executives and the road map to get there. Special emphasis is placed on the balanced scorecard strategic planning methodology as applied to an information technology function in an organization.

CFI4473 (3.0 credits hours)

Digital Media Forensics:

This course is an in depth treatment of hardware forensics. Topics will include data encoding schemes, hard disk geometry, forensically sound preview and data acquisition, bag and tag procedures, transportation and storage procedures, forensic imaging, file system analysis, data recovery and reporting, scripting, and cell phone forensics. Also included will be an exploration of techniques to search for and recover data including using existing forensics tools, manual examination and recovery of file system data using a hex editor, and programming custom utilities.

CFI4475 (3.0 credits hours)

Network Forensics:

This course deals with the collection, preservation, and analysis of network generated digital evidence such that this evidence can be successfully presented in a court of law (both civil and criminal). The relevant federal laws will be examined as well as private sector applications. The capture/intercept of digital evidence, the analysis of audit trails, the recordation of running processes, and the reporting of such information will be examined.

CFI4477 (3.0 credits hours)

Computer System Forensic Analysis:

This course introduces students to the collection, preservation, presentation and preparation of computer based evidence for the purposes of criminal law enforcement or civil litigation. Students will be prepared to assist in the formulation and implementation of organizational computer forensics preparedness policies, to determine the necessity for forensic procedures, extend governance processes to allow for proper future forensic investigations, and to be contributing members of computer forensics investigation teams.

CFI4479 (3.0 credits hours)

Network Defense and Countermeasures:

This course provides knowledge and the practical experience necessary to evaluate, implement and manage secure information transferred over computer networks. Topics include network security, intrusion detection, types of attacks, methods of attacks, security devices, basics of cryptography and organizational security elements.

General Education Requirements

See specific Lower and Upper Division general education requirements for a Bachelor of Science Degree in Cyber Forensics/Information Security in the Program Descriptions section of this catalog.

PAGE 308, FORENSIC INVESTIGATIONS COURSE DESCRIPTIONS

FORENSIC INVESTIGATIONS
Bachelor of Science Degree
Major Course Requirements

FSI3000 (3.0 credit hours)

Forensic Investigations

An introduction to forensic investigations and forensic sciences. Includes the organization, functions and services of a forensic science laboratory. Topics emphasize types of evidence typically encountered, collection, transportation and storage methods, standards and legal requirements for submission to a forensic laboratory and for presentation in legal proceedings.

FSI3100 (3.0 credit hours)
Forensic Biology
Presents the forensic value of handling, documenting, preserving, testing and analyzing biological evidence associated with deceased human beings. Topics include scientific methods for identifying the presence of blood, toxic substances and other bodily fluids at the scene or in the forensic laboratory. Includes methods used to establish time and manner of death. The course also addresses safety issues involved in handling biological evidence and legal and ethical issues associated with forensic science. Prerequisites: BSC 1010

FSI3100L (1.0 credit hour)
Forensic Biology Laboratory
This course consists of practical applications corresponding to theories and concepts presented in FSI3100 Forensic Biology.

FSI3200 (3.0 credit hours)
Forensic Anthropology
An introductory study of the application of the science of physical anthropology to the identification and recovery of human remains. Includes methods used to determine age, sex, height, ancestry of human skeletal remains as well as identification of trauma and disease affecting skeletal remains. Prerequisites: BSC 2085C, BSC 2086C and FSI 3000.

FSI3200L (1.0 credit hour)
Forensic Anthropology Laboratory
This course consists of practical applications corresponding to theories and concepts presented in FSI3200 Forensic Anthropology.

FSI3300 (3.0 credit hours)
Forensic Chemistry
Basic study of the application of chemistry to the analysis of physical evidence such as inks, paints, natural and artificial substances. Included are techniques used to identify controlled substances and toxic substances. Prerequisites: CHM 1045, CHM 1046 and FSI 3000.

FSI3300L (1.0 credit hour)
Forensic Chemistry Laboratory
This course consists of practical applications corresponding to theories and concepts presented in FSI3300 Forensic Chemistry.

FSI3400 (3.0 credit hours)
Introduction to Criminalistics I
A study of common methods used in the scientific analysis of organic and inorganic materials with concentrations on hairs, fibers, paint, glass, soil, firearms, bullets, tool marks and combustibles/explosives. Prerequisite: FSI 3000

FSI3400L (1.0 credit hour)
Introduction to Criminalistics I Laboratory
This course consists of practical applications corresponding to theories and concepts presented in FSI3400 Criminalistics I.

FSI3450 (3.0 credit hours)
Introduction to Criminalistics II

A study of common methods used in the scientific analysis of organic and inorganic materials with concentrations on toxicological substances, controlled substances, blood, and DNA. Prerequisite: FSI3400.

FSI3450L (1.0 credit hour)
Introduction to Criminalistics II Laboratory
This course consists of practical applications corresponding to theories and concepts presented in FSI3450 Criminalistics II.

FSI4000 (3.0 credit hours)
Digital Imaging Processing
A presentation of basic crime scene digital imaging processing and enhancement skills. Topics include single lens reflex digital camera operation in TIFF and RAW file formats. Students develop proficiencies in image capture and processing utilizing accepted techniques. This course includes presentation of demonstrative evidence in legal proceedings.

FSI4100 (3.0 credit hours)
Crime Scene Documentation
This course emphasizes all components of proper documentation of forensic investigative activities, including detailed standardized and narrative reports regarding the application of specific methods and processes in the analysis of physical evidence and the results obtained.

FSI4200 (3.0 credit hours)
Unusual Crime Scenes
This course focuses on special procedures required at unusual crime scenes. Topics include scenes involving arson, hazardous materials, explosives, mass casualties, animals, submerged evidence, etc. Prerequisite: FSI 3000

FSI4300 (3.0 credit hours)
Elements of Proof
An introduction to substantive criminal law with emphasis on elements of proof associated with offenses against persons and property. Topics include study of selected opinions from federal and state courts interpreting criminal statutes. Topics include study of selected opinions from federal and state courts interpreting criminal statutes.

FSI4400 (3.0 credit hours)
Court Procedure and Evidence
An introduction to criminal procedure with concentration on the law of evidence in criminal legal proceedings especially that involved with the introduction of demonstrative evidence. Topics include study of selected opinions from federal and state appellate courts interpreting the 4^{th}, 5^{th} and 14^{th} amendments to the U.S. Constitution and the burdens faced by the party that has the burden of proof (and defense) in a criminal trial.

FSI4500 (3.0 credit hours)
Presentation of Evidence
This course presents technical information on presenting ordinary and expert witness testimony under the Federal Rules of Evidence and the rules of evidence for the State of Florida in pre-trial and trial legal proceedings. Included is preparing for the presentation of physical and demonstrative evidence. Topics include study of selected opinions from federal and state appellate courts relating to the qualification and admission of testimony from ordinary and expert witnesses.

FSI4600 (3.0 credit hours)
Crime Scene Analysis
A review of all phases of identification, collection, preservation and analysis of physical evidence. Includes methods of deductive and inductive reasoning relative to the evaluation of information provided by physical evidence ("connecting-the dots"). Prerequisite: FSI 3000, FSI 3400 & FSI3450.

FSI4940 (4.0 credit hours)
Forensic Investigations Externship I
This course is designed to introduce students to the practical working conditions of the field forensic investigator/forensic identification specialist. Students will learn and demonstrate competency in handling the administrative and practical aspects of field investigative work. Students will demonstrate continued competency in administrative and investigative skills by classroom testing twice throughout the one month externship period. Prerequisite: Successful completion of: 32 Hours of Upper Division Courses.

FSI4950 (4.0 credit hours)
Forensic Investigations Externship II
This course is intended for students to experience advanced stages of the forensic investigative process to include, but not limited to, observing preparations for and appearances in legal proceedings by forensic investigative personnel, as well as procedures employed in the preservation and storage of physical evidence. Students will demonstrate competency in the above aspects of investigative work. Student will also demonstrate continued competency in investigative and administrative skills by classroom testing twice throughout the one month externship period. Prerequisite: Successful completion of: FSI4900.

PAGE 321, BS NETWORKING SYSTEMS AND DATA COMMUNICATIONS

Insert the following before BS Nursing:

NETWORK SYSTEMS AND DATA COMMUNICATIONS
Bachelor of Science Degree
Major Course Requirements

ACG1001 (3.0 credit hours)
Accounting Principles I
Defines objectives of accounting and their relationship to business through fundamental concepts and principles. Topics include theories of debits and credits, classification of accounts, journalizing, preparation of financial statements and the use of a trial balance. Accrual method accounting procedures are discussed with end-of-year procedures and financial statements. The practice set reviews the complete operation of a small business. Prerequisites: None

ISM4300 (3.0 credit hours)
Information Technology Management
Describes the management of an Information Technology department and the business implications and real-world examples to improve business organizations. This course presents a framework for business managers to understand the importance of their role when working with other members of the organization to achieve effective IT results and to identify and evaluate potential opportunities to employ IT. Prerequisite: None

ISM3112 (3.0 credit hours)
Systems Analysis
Trains students to assume the role of a system analyst in a information technology organization. Students learn to recognize and identify problems and opportunities in a company which might benefit from the application of technology. Once identified, a problem is investigated and thoroughly analyzed. A business justification for possible solutions is then performed and presented to management for approval. As a term project, students investigate a real problem found in a business organization and recommend the best course of action. Prerequisite: None

CET1171C (4.0 Credit Hours)
Service/Support PC Systems I
Offers a broad foundation of knowledge and skills in PC support services. Topics include software applications and operating systems including the use of advanced software/system features and programs, the interrelationships among major components of networks, hardware and software selection and installation, integration techniques to

enhance projects and preventative hardware maintenance. Additionally, students are trained to write batch scripts, optimize memory, set up device drivers and assemble discrete components of a computer system, hard drive architecture, cabling and microprocessor basics. Prerequisite: None

CET1172C (4.0 credit hours)
Service/Support PC Systems II
Provides an in-depth look at advanced computer maintenance concepts and techniques. Topics include PC development techniques, troubleshooting strategies, advancement of technological development and problem-solving strategies. Prerequisite: CET1171C

CIS2350C (4.0 credit hours)
Principles of Information Security
Provides a fundamental understanding of network security principles and implementation. Topics include technologies used and principles involved in creating a secure computer networking environment, authentication, types of attacks and malicious code, threats and countermeasures for e-mail, Web applications, remote access, and file and print services. A variety of security topologies are discussed. Prerequisite: None

CTS1156C (4.0 credit hours)
Supporting Client Operating Systems
Prepares students to address the implementation and desktop support needs for current Microsoft client software in a variety of standalone and network operating system environments. Topics include client planning, implementation, management and support. Prerequisite: None

CTS1305C (4.0 credit hours)
Essentials of Networking
Provides an objective assessment of skills and certification of students' networking accomplishments. The course introduces underlying concepts of data networking, such as the Open Systems Interconnection (OSI) reference model and protocols that operate at various model layers. Prerequisite: None

CTS1328C (4.0 credit hours)
Managing and Maintaining Server Op Sys
Introduces systems administration or systems engineering for Microsoft networks. Topics include knowledge and skills required to manage accounts and resources, maintain server resources, monitor server performance and safeguard data in a Microsoft Windows server environment. Prerequisite: None

CTS2106C (4.0 credit hours)
Multi-User Operating Systems
Provides a comprehensive overview of the Linux operating system. Topics include Linux command-line environment, utilities, applications and graphical X Window environment. Prerequisite: None

CTS2153C (4.0 credit hours)
Application Support
Provides the knowledge and skills to install, configure and maintain Microsoft office Suite on a Microsoft operating system. Topics include configuring Internet Explore and Outlook Express, resolving issues related to customizing and personalizing Microsoft Office applications, migrating from Outlook Express to Outlook, identifying and troubleshooting network problems, configuring Microsoft Office security settings and monitoring security vulnerabilities and updates. Prerequisite: None

CTS2302C (4.0 credit hours)
Implementing Directory Services
Presents the knowledge and skills to successfully plan, implement, and troubleshoot a Microsoft Windows Active Directory service infrastructure. Topics include forest and domain structures, Domain Name System (DNS), site

topology and replication, organizational unit (OU) structure and delegation of administration, group policy and user, group and computer account strategies. Prerequisites: CET1172C, CTS1305C, CTS1184C

CTS2304C (4.0 credit hours)
Internetworking Technologies
Presents internetworking technology concepts and commands necessary to configure routers and switches. Topics include instruction on the OSI model, industry standards, various network topologies, basic networking design and troubleshooting, IP addressing including subnet masks, router configuration, routes and routing protocols and advanced router configurations. Also covered are LAN switching theory, VLans, advanced LAN and LAN switched design, WAN technology, theory and design, Novell IPX, PPP, frame relay and ISDN. Prerequisites: CET172C, CTS1305C, CTS1184C

CTS2306C (4.0 credit hours)
Implementing a Network Infrastructure
Presents the knowledge and skills necessary to implement, manage and maintain a contemporary network infrastructure. Topics include implementing, managing and maintaining server network technologies. These tasks include implementing, managing and maintaining Dynamic Host Configuration Protocol (DHCP), Domain Name System and Windows Internet Name Service (WINS); securing Internet Protocol traffic with Internet Protocol security and certificates; implementing a network access infrastructure by configuring connections for remote access clients and managing and monitoring network access. Prerequisites: CET1172C, CTS1305C, CTS1184C

COP2843C (4.0 credit hours)
Web Systems
Provides an introduction to web development and database management in an online environment. Topics include programming, database management and manipulation, database access, data storage, object-oriented development and debugging. Prerequisite: CTS1305C

CTS3437 (3.0 Credit Hours)
SQL Server Administration
This course covers topics specific to SQL server relational databases. Database architectures including distributed database models are explored from the perspective of analysis. Topics include database creation, maintenance, and optimization. Database development and database administration. Prerequisite: CTS2843C

CTS3370 (3.0 Credit Hours)
Designing a Virtual Infrastructure
Covers concepts and capabilities of virtualization with a focus on the installation, configuration, and management the virtual infrastructure. Topics include virtual network design and deployment, SAN's, switching, virtual system management, and system configuration for high availability. Prerequisite: CTS2306

CTS3817 (3.0 Credit Hours)
Web Server Administration
This course covers the design, implementation and maintenance of a Web Server. Topics include apache, IIS, client web servers, configuration of applications, security, and management of user permissions. Prerequisite: CTS2306

CTS4323C (3.0 Credit Hours)
Enterprise Planning & Optimization
This course is designed to prepare students in the planning, optimization, and maintenance of the modern network infrastructure. Topics include planning an addressing scheme, performance optimization, identifying the components of the master project plan, and applying the guidelines for selecting network access connection strategies. Prerequisite: CTS3370C

CTS4113C (3.0 Credit Hours)
Wireless Networks and Mobile Computing

Provides an overview of the aspects of Mobile Computing and its role in the modern network infrastructure. Topics include adhoc networks, cellular and other wireless systems and security as it pertains to mobile technologies. Prerequisite: None

CTS4652C (3.0 Credit Hours)
Advanced Router Technology
This course covers advanced concepts and applications of network routing. Topics include router configurations and principles of switching. Prerequisite: CTS2304C

ISM4212 (3.0 credit hours)
Database Management Systems
Describes how data is created, stored, and manipulated in business using relational database management systems. Students become proficient at modeling databases at a conceptual and physical level of design and are able to develop dataset schemas that enforce data integrity. Students become knowledgeable in the creation, altering and manipulation of tables, indexes and views using relational algebra and Structured Query Language (SQL). Prerequisite: None

MAN4583 (3.0 credit hours)
Project Management
This course emphasizes the importance of project management and teaches students to differentiate between product and project management. Topics include roles and responsibilities of a project manager, project environment and developing a quality project team, five steps of a project, construction of a network diagram, and mathematics analysis techniques such as CPM and PERT. Prerequisite: None

CTS1321 (3.0 credit hours)
Advanced Linux Administration
This is an advanced course covering the Linux operating system. Emphasis is placed on kernel configuration and an in-depth look at Linux networking services. It stresses securing the Linux OS in a networking environment. Topics include Linux server roles, interconnecting with Windows OS and hardening Linux servers. Prerequisite: CTS2106

CTS3330C (3.0 credit hours)
Implementing a Messaging Infrastructure
This course provides students with the knowledge and skills that are needed to update and support a reliable, secure messaging infrastructure. This infrastructure is used for creating, storing, and sharing information in a medium-sized to large-sized messaging environment. This course offers a significant amount of hands-on practices, discussions, and assessments that assist students in becoming proficient in the skills that are needed to update and support a messaging infrastructure. Prerequisite: CTS2306

CIS4352 (3.0 credit hours)
Ethical Hacking
The primary emphasis of this hands-on course is designed to survey computing exploitation techniques and their detection and countermeasures where applicable. The course explores the role of a legal ethical hacker in terms of system and network penetration testing, by exploiting weaknesses and analyzing ways to correct security vulnerabilities. Prerequisite: CIS2350C

CTS3662C (3.0 credit hours)
IP Telephony
This course will cover installation and administration of voice and data technologies as a complete telephony solution. Topics explored include, how voice and data services are integrated over existing networks, analog and digital voice interfaces and the underlying concepts of Voice over IP. Prerequisite: None

ISM4113 (3.0 credit hours)
Systems Design

Expands on ISM 3112 (Systems Analysis). Students are taught to design an information system for a company or agency of their choice. Students learn development methodologies such as Waterfall, Prototyping, RAD, Object-Oriented Design, and UML. Using the most appropriate methodology, a team designs system output, input, processing, and the database for the new system. Students create a Design Deliverable document and present their findings to management. Prerequisite: ISM3112

ISM4130 (3.0 credit hours)
Information Systems Implementation
Extends System Design (ISM4113) through the development phase to implementation by introducing software testing, documentation, training, and deployment. Working as if part of a large IT organization, student teams analyze a real problem, design a solution, write the programs, test their system, document their system, train customers in how to use their system and implement it at a customer site. Prerequisite: ISM4113

PAGE 321, BS NURSING PROGRAM COURSE DESCRIPTIONS

Replace this section with the following course descriptions:

NURSING
Bachelor of Science Degree
Major Course Requirements

NUR3065 (3.0 credit hours)
Physical Assessment in Healthcare
This course introduces the knowledge and skills necessary to systematically and accurately assess health status of clients. Topics include completion of a health database, communication skills, development of nursing diagnosis and body systems assessment. Cultural and sociological influences are explored. Analysis of data provide a foundation for the formulation of nursing diagnoses.

NUR3126 (3.0 credit hours)
Pathophysiology I
This course includes (1) pathophysiologic alterations in the biologic and psychologic subsystems and their effects; (2) diagnostic procedures; (3) nursing therapies related to various conditions; and (4) examination of non-pathologic alterations of the human systems, such as pregnancy, and their effects on an individual. Major systems/diagnostic categories include immune, hematologic, fluid/ electrolyte/acid-base, gastrointestinal, cardiovascular and respiratory.

NUR3127 (3.0 credit hours)
Pathophysiology II
This course includes (1) pathophysiologic alterations in biologic and subsystems (2) diagnostic procedures; (3) nursing therapies related to various conditions; and (4) examination of non-pathologic alterations of the human systems, such as pregnancy, and their effects on an individual. Major systems/disorder categories addressed are renal, neurological, endocrine, reproductive, musculoskeletal and dermatologic. Prerequisite: NUR3126.

NUR3516 (3.0 credit hours)
Crisis Intervention
This course focuses on crisis intervention in the context of nursing practice. Areas addressed include the following: (1) theories of crisis; (2) characteristics and classification of crises; (3) common maturational and situational crises; (4) stages in various types of crises; (5) physiological, cognitive and psychosocial responses to crises; (6) traditional and innovative crisis intervention methods; and (7) national resources for intervention.

NUR3655 (3.0 credit hours)
Transcultural Factors in Healthcare Delivery

This course presents a comparative analytical approach to the study of communication, current problems, issues, health care beliefs, values, and practices of different systems and cultural norms as they affect healthcare practices which conflict with ethnic or cultural communication related to standards and value systems.

NUR3805 (3.0 credit hours)
Nursing Role and Scope
This course presents concepts and theories in nursing that have helped to shape the nursing profession since its inception. The emphasis is on professional values as a base of nursing practice.

NUR3826 (3.0 credit hours)
Ethical and Legal Aspects of Nursing Practice
This course introduces contemporary bioethical and legal issues confronting healthcare providers in a variety of settings. Topics focus on identification of legal and ethical principles underlying the decision-making process in nursing and healthcare.

NUR4165 (3.0 credit hours)
Nursing Research
This course presents the history of nursing research, research methods and processes and the relationship between theory development and research. Topics include analysis of research applications and preparation of research reports. Prerequisite: STA3143

NUR4286 (3.0 credit hours)
Nursing and the Aging Family
Utilizing a holistic perspective, this course explores the older adult family, the aging process, client responses, adaptive behaviors and nursing needs.

NUR4636 (3.0 credit hours)
Community Nursing I
This course is designed to teach adaptive responses of client groups. Students assess the community and its healthcare delivery systems. They learn epidemiology, biostatistics and social structures within a community, including family structures. The role of a nurse in dealing with family crises, gerontological problems, child-bearing, child-rearing families, and medical-surgical conditions are covered. The course includes a clinical component that involves assignment to community settings with preceptor supervision. Major areas of emphasis in this course include the context for community health nursing; community health nursing and its theoretical foundation; processes used in community nursing.

NUR4637 (3.0 credit hours)
Community Nursing II
This course is designed to teach adaptive responses of client groups. Research on community nursing and its application to selected groups of clients within the community is presented. Historical, legal, ethical, and economic issues affecting adult and gerontological nursing is discussed. The course includes a clinical component that involves assignment to community settings with preceptor supervision. Major areas of emphasis in this course include the context for community health nursing; community health nursing and its theoretical foundation; processes used in community nursing. Prerequisite: NUR4636

NUR4817 (3.0 credit hours)
Nursing Roles Practicum
This capstone course supports the students' synthesis of theories and concepts incorporated throughout the curriculum with application to a selected area of nursing practice directed toward professional role development. The course includes a clinical component involving assignment to a clinical practice setting with preceptor supervision and faculty direction. Prerequisite: Completion of 36 credits of upper division nursing major courses

NUR4827 (3.0 credit hours)

Nursing Leadership and Management
This course covers leadership and management concepts for nursing. Topics include leadership styles, decision making, planned change, conflict, conflict resolution strategies, communication and evaluation. Prerequisite: Completion of 36 credits of upper division nursing major courses

NUR4870 (3.0 credit hours)
Nursing Informatics
This course focuses on a conceptual foundation for understanding nursing informatics and includes analysis of various applications of information systems within the context of the healthcare system. Elements covered include theoretical models of nursing informatics; healthcare computing; information processing and data management; data acquisition and data representation; nursing vocabularies and nursing knowledge representation; managing organizational change; ethical and social issues in healthcare informatics; consumer informatics.

PAGE 324, BS PUBLIC SAFETY ADMINISTRATION COURSE DESCRIPTIONS

Change the name of this major from PUBLIC SAFETY to PUBLIC SAFETY ADMINISTRATION.

PAGE 327, BS SOFTWARE ENGINEERING COURSE DESCRIPTIONS

Before BS Sports Medicine and Fitness Technology, insert the following:

SOFTWARE ENGINEERING
Bachelor of Science Degree
Major Course Requirements

ACG1001 (3.0 credit hours)
Accounting Principles I
Defines objectives of accounting and their relationship to business through fundamental concepts and principles. Topics include theories of debits and credits, classification of accounts, journalizing, preparation of financial statements and the use of a trial balance. Accrual method accounting procedures are discussed with end-of-year procedures and financial statements. The practice set reviews the complete operation of a small business. Prerequisites: None

ACG3024 (3.0 credit hours)
Accounting for Non-Financial Managers
This course addresses the use of accounting information by non-financial managers. Topics include interpretation of accounting information and the language of financial accounting to effectively participate in activities such as planning, investment, control and managerial decision making. Prerequisites: ACG1001, ENC2102, STA2023

COP3610C (3.0 credit hours)
Operating Systems
Presents an overview of the principal concepts behind current multi-tasking operating systems. Topics include concurrency, scheduling and dispatch, the API, and memory allocation and management. Prerequisite: CDA2100C

COP2360C (4.0 credit hours)
C# (Sharp) Programming I
Presents the principles of designing object-oriented applications. implementing graphical user interface programs, structured programming, function callings and parameter passing. Prerequisite: COP1800C

COP1800C (4.0 credit hours)
Java Programming I

Explains creation of standalone applications and interactive Java applets by using Sun Microsystems. Topics include object-oriented techniques, swing components, built-in methods, classes and graphics implementations. Individuals learn by uploading interactive Java applets to the web. Prerequisite: None

COP1805C (4.0 credit hours)
Java Programming II
Continues COP 1800C (Java Programming I). Continuation topics include swing implementations, animation and multithreading. ASCP Prerequisite: COP1800C

COT2405C (3.0 credit hours)
Introduction to Algorithms
Presents the underlying concepts of algorithmic analysis and strategy. Topics include computational complexity, time and space tradeoff, and elementary computability. Prerequisite: COP1800C

CEN4230 (3.0 credit hours)
Domain Specific Languages
Presents languages which are dedicated to a specific problem domain as opposed to general purpose languages. Domain-specific language will be presented as visual diagramming languages, such as those created by the Generic Eclipse Modeling System, programmatic abstractions, such as in the Eclipse Modeling Framework, or as textual languages. Prerequisite: COP3011C

CEN2010C (3.0 credit hours)
Software Engineering I - Introduction to Software Engineering Principles
Explores the fundamental concepts and techniques of applying engineering principles to the creation, and maintenance of software. This course introduces the software engineering components of planning, specifications, design, coding, testing and maintenance. Topics include dealing with change management, requirements elicitation, analysis and design. The course emphasizes the team approach to large software system development with an emphasis on the early part of the software lifecycle. Prerequisite: COP1800C

CEN3011 (3.0 credit hours)
Software Engineering II - Advanced Software Engineering
Presents an in-depth look into the software process. Analysis and design and evaluation of larger systems with significant complexity. Design using Commercial Off The Shelf (COTS) products is explored. Topics include Unified Modeling Language (UML), Model Driven Software Development, API's and frameworks, verification and validation. Emphasis is placed on the later part of the software lifecycle. Prerequisite: CEN2010C

CEN2064 (3.0 credit hours)
Software Design
This course looks at software design principles through the techniques and patterns used to implement system components and developing a system architecture. Addresses the design of software for qualities of security, reliability, reusability, performance etc. Prerequisite: CEN3011C

COP4620 (3.0 credit hours)
Compiler Construction
Explores the essential components of Compilers and Interpreters. Topics include the basic theory of parsing and grammar, lexical analysis and tools for automating software construction. Prerequisite: CEN3205C

CEN3410 (3.0 credit hours)
Software Testing
Explores the concepts of validation and verification, utilizing dynamic and static techniques to ensure that software satisfies its specification in terms of functional and nonfunctional requirements. Topics include test plans, testing principles and strategies, and managing the testing process. Prerequisite: CEN3011C

COP2843C (4.0 credit hours)

Web Systems
Provides an introduction to web development and database management in an online environment. Topics include programming, database management and manipulation, database access, data storage, object-oriented development and debugging. Prerequisites: CTS1305C

COT2104 (3.0 credit hours)
Discrete Mathematics and Probability
Presents the mathematical principles of discrete structures as they apply to computing. Topics include relations, sets, proof techniques, propositional logic and Boolean algebra.
Prerequisite: COP1800C

COT3205 (4.0 credit hours)
Theory of Computation
Explores computation problems with respect solvability and efficiency of the solution set. Topics include the Turing machine and lambda calculus. Prerequisite: COT2104C

CTS2106C (4.0 credit hours)
Multi-User Operating Systems
Provides a comprehensive overview of the Linux operating system. Topics include Linux command-line environment, utilities, applications and graphical X Window environment. Prerequisite: CTS1305C

CTS1305C (4.0 credit hours)
Essentials of Networking
Provides an objective assessment of skills and certification of students' networking accomplishments. The course also introduces underlying concepts of data networking, such as the Open Systems Interconnection (OSI) reference model and protocols that operate at various model layers. Prerequisite: None

FIN3370C (3.0 credit hours)
Economics and Project Management for Software Engineers
Planning and organizing the software development, operation and maintenance. This course explores the essentials of the requirements to successfully manage a software engineering enterprise. Engineering economics with emphasis on topics such as break-even analysis, cost-benefit analysis, analysis of options, accounting for risk, economic analysis and return on investment. Topics include the economic aspects of development, acquisition of computer systems and computer aided time and cost estimating models. Prerequisite: CEN3011C

CEN2721 (3.0 credit hours)
Human Computer Interface Design
Explores the considerations of designing the users interface for effectiveness of software with respect to user needs and activities. Psychological principles underlying the users experience is examined. Topics include usability engineering, voice and natural language interface, methods of analysis, user anxiety and convenience, response time and feedback, and color consideration. Prerequisite: COP2360

CDA2100 (3.0 credit hours)
Computer Architecture
Introduction to the architecture of the physical aspects of computer systems. The course analyses the basic Von Neuman machine and presents multiprocessor and alternative architectural achievements. Topics include memory systems, data representation, digital logic and assembly level organization. Prerequisite: None

CEN4086 (3.0 credit hours)
Cloud and Internet Computing
This course presents various approaches to building large enterprise systems to be deployed on the Internet and cloud. Topics include service-oriented programming, grid computing, cloud computing, software as a service, smart clients, and web services. Prerequisite: COP2843

CDA4125 (3.0 credit hours)
Concepts of Parallel and Distributed Processing
This course introduces various systems aspects of parallel and distributed computing. Topics include parallel computer architectures, interconnects, parallel programming paradigms, compilation techniques, runtime libraries, performance evaluation, performance monitoring and tuning, parallel and distributed paradigms and tools for parallel and distributed computing. Prerequisite: COP3610C

COP1650 (3.0 credit hours)
Mobile Application Development
This course covers the development of applications for mobile and wireless software applications. Topics include, standalone applications, mobile portals, and enterprise and m-commerce systems. Emphasis is placed on the processes, tools and frameworks required to develop applications for current and emerging mobile computing devices. Prerequisite: COP2843C

CEN3016 (3.0 credit hours)
Specifications of Software Systems
Looks at specification that have well defined semantics. Covers classes of specification models, including algebraic, petri-nets and model-theoretic approaches. Prerequisite: CEN3011C

CEN2027 (3.0 credit hours)
Software Maintenance and Evolution
This course explores legacy systems as they represent significant assets containing valuable components that can be reused as the system evolves over time to meet changing requirements and new business challenges. Topics include fundamental aspects of software maintenance and evolution, process models for system evolution and software maintenance case studies. Prerequisite: CEN2010C

PAGE 358, COURSE DESCRIPTIONS, DIAGNOSTIC MEDICAL SONOGRAPHY

Replace this section with the following:

DIAGNOSTIC MEDICAL SONOGRAPHY
Associate of Science Degree
Major Course Requirements

SON1000C (5.0 credit hours)
Introduction to Diagnostic Medical Sonography
Introduces the role of diagnostic medical sonographers and technical aspects of diagnostic medical ultrasound. Topics include information related to medical terminology, the healthcare industry, patient care and medical ethics and law.

SON1100C (5.0 credit hours)
Practical Aspects of Sonography
Introduces ultrasound scanning principles and protocols. Topics include scanning criteria and standardization of image documentation for physician interpretation, as well as normal anatomy, physiology and sonographic appearance of the abdomen, OB/GYN and vascular structures. Prerequisite SON 1614C

SON1113C (5.0 credit hours)
Cross-Sectional Anatomy
Presents cross sectional anatomical relationships and recognition of structures of the head, neck, thorax, abdomen, pelvis, and extremities in transverse, coronal and sagittal section. Prerequisite
SON 1000C

SON1614C (5.0 credit hours)
Acoustic Physics and Instrumentation
Presents in-depth training in the properties of ultrasound and Doppler physics, instrumentation, equipment operation, display systems, recording devices, image artifacts, biological effects of ultrasound and quality assurance methods. Prerequisite SON 1000C

SON1804 (2.5 credit hours)
Clinical Rotation I
Assigns students to local medical facilities for clinical education, providing them an opportunity to apply knowledge and skills learned in SON 1100C (Practical Aspects of Sonography) and SON 2111C (Abdominal Sonography) and to acquire other skills necessary to the profession of diagnostic medical sonography. Prerequisite SON 2111C

SON1814 (2.5 credit hours)
Clinical Rotation II
Assigns students to local medical facilities for clinical education, providing them an opportunity to apply knowledge and skills learned in SON 2111C (Abdominal Sonography) and SON 2120C (OB/GYN Sonography) and to acquire other skills necessary to the profession of diagnostic medical sonography. Prerequisite SON 1804

SON1824 (2.5 credit hours)
Clinical Rotation III
Assigns students to local medical facilities for clinical education, providing them an opportunity to apply knowledge and skills learned in SON 1814 (Clinical Rotation II) and to acquire other skills necessary to the profession of diagnostic medical sonography. Prerequisite SON 1814

SON2009C (5.0 credit hours)
Diagnostic Medical Sonography Review
Addresses issues that facilitate a graduate's entry into the career of sonography. Topics include resumé writing and job interviewing, test taking strategies, registry examination preparation and comprehensive review of content specific to registry examinations. Prerequisite SON 2854

SON2111C (5.0 credit hours)
Abdominal Sonography
Presents cross-sectional anatomy of the abdomen, normal and abnormal sonographic findings of the intra-abdominal organs, peritoneal spaces and retroperitoneal structures. The relationship of abnormal findings to patient history, physical examination and laboratory findings are stressed. Prerequisite SON 1100C

SON2120C (5.0 credit hours)
OB/GYN Sonography I
Presents cross sectional anatomy of the female pelvis, normal and abnormal sonographic features of the non gravid pelvis, as well as normal and abnormal anatomy of the first trimester. Embryology, early fetal development and the relationship of abnormal findings of the patient history, physical examination and laboratory findings are emphasized. Prerequisite SON 1804

SON2122C (5.0 credit hours)
OB/GYN Sonography II
Presents normal and abnormal anatomy and sonographic features of the second and third trimester pregnancies. The relationship of patient history, physical examination, and laboratory findings with abnormal fetal and maternal findings is emphasized. Prerequisite
SON 2120C

SON2150C (5.0 credit hours)
Ultrasound of Superficial Structures and Neonatal Brain

Presents normal and abnormal sonographic features of the neck, breast, prostate, scrotum and superficial structures. Topics include imaging of the neonatal brain, related cross-sectional anatomy, and the relationship of sonographic findings to patient history, physical examination and laboratory findings. Prerequisite SON 1824

SON2171C (5.0 credit hours)
Introduction to Vascular Sonography
Provides an introduction to vascular anatomy, vascular physics and instrumentation, hemodynamics and pathological patterns. Topics include Doppler scanning of cerebrovascular and peripheral vascular systems. Prerequisite SON 2844

SON2834 (2.5 credit hours)
Clinical Rotation IV
Assigns students to local medical facilities for clinical education, providing them an opportunity to apply knowledge and skills learned in SON 2150C (Ultrasound of Superficial Structures and Neonatal Brain) and to acquire other skills necessary to the profession of diagnostic medical sonography. Prerequisite SON 1824

SON2844 (2.5 credit hours)
Clinical Rotation V
Continues SON 2834 (Clinical Rotation IV) by providing students with opportunities to apply knowledge and skills learned in SON 2834 (Clinical Rotation IV) and to acquire other skills necessary to the profession of diagnostic medical sonography. Prerequisite SON 2834

SON2854 (2.5 credit hours)
Clinical Rotation VI
Assigns students to local medical facilities for clinical education, providing them an opportunity to apply knowledge and skills learned in SON 2171C (Introduction to Vascular Sonography) and to acquire other skills necessary to the profession of diagnostic medical sonography. Prerequisite SON 2171C

PAGE 361, COURSE DESCRIPTIONS, DIAGNOSTIC VASCULAR SONOGRAPHY

Replace this section with the following:

DIAGNOSTIC VASCULAR SONOGRAPHY
Associate of Science Degree
Major Course Requirements

SON1000C (5.0 credit hours)
Introduction to Diagnostic Medical Sonography
Introduces the role of diagnostic medical sonographers and technical aspects of diagnostic medical ultrasound. Topics include information related to medical terminology, the healthcare industry, patient care and medical ethics and law.

SON1100C (5.0 credit hours)
Practical Aspects of Sonography
Introduces ultrasound scanning principles and protocols. Topics include scanning criteria and standardization of image documentation for physician interpretation, as well as normal anatomy, physiology and sonographic appearance of the abdomen, OB/GYN and vascular structures. Prerequisite: SON1614C

SON1113C (5.0 credit hours)
Cross-Sectional Anatomy
Presents cross sectional anatomical relationships and recognition of structures of the head, neck, thorax, abdomen, pelvis, and extremities in transverse, coronal and sagittal section. Prerequisite: SON1000C

SON1614C (5.0 credit hours)
Acoustic Physics and Instrumentation
Presents in-depth training in the properties of ultrasound and Doppler physics, instrumentation, equipment operation, display systems, recording devices, image artifacts, biological effects of ultrasound and quality assurance methods. Prerequisite: SON1000C

SON1805 (2.5 credit hours)
Vascular Clinical Rotation I
Assigns students to area medical facilities for clinical education, providing them an opportunity to apply knowledge and skills learned in Son 2170C (Hemodynamics and Cerebrovascular Sonography) and to acquire other skills necessary in the profession of vascular sonography. Prerequisite: SON 2170C

SON1815 (2.5 credit hours)
Vascular Clinical Rotation II
Assigns students to area medical facilities for clinical education, providing them an opportunity to apply knowledge and skills learned in SON2170C (Hemodynamics and Cerebrovascular Sonography) and SON2175C (Peripheral Vascular Sonography) and to acquire other skills necessary in the profession of vascular sonography. Prerequisite: SON2175C
SON1825 (2.5 credit hours)

Vascular Clinical Rotation III
Assigns students to area medical facilities for clinical education, providing them an opportunity to apply knowledge and skills learned in SON1815 (Clinical Rotation II) and to acquire other skills necessary in the profession of vascular sonography. Prerequisite: SON1815

SON2170C (5.0 credit hours)
Hemodynamics and Cerebrovascular Sonography
Emphasizes the principles and procedures involved in transcranial and extracranial sonography. Topics include vascular physics and instrumentation, hemodynamics and pathological patterns, spectral analysis, color Doppler, pulsed and continuous wave Doppler. The relationship of abnormal sonographic findings to patient history, physical examination and laboratory findings are emphasized. Prerequisite: SON1100C

SON2175C (5.0 credit hours)
Peripheral Vascular Sonography
Provides in-depth knowledge of peripheral arterial disease and peripheral venous disease. Non-invasive testing of the upper and lower extremity vessels and disease processes are studied including plethysmography, duplex, pulsed and continuous wave Doppler. The relationship of abnormal sonographic findings to patient history, physical examination and laboratory findings are emphasized. Prerequisite: SON2170C

SON2176C (5.0 credit hours)
Abdominal Vascular Sonography
Presents abdominal vascular anatomy, physiology and varied vascular pathologies. The relationship of abnormal sonographic findings to patient history, physical examination and laboratory findings are emphasized. Topics include test validation, quality assurance, vascular laboratory accreditation and advanced imaging techniques. Prerequisite: SON 1825

SON2179 (5.0 credit hours)
Vascular Sonography Review
Addresses issues that facilitate a graduate's entry in the career of sonography. Topics include resume writing and job interviewing, test-taking strategies, registry examination preparation and comprehensive review of content specific to the registry examinations. Prerequisite: SON2855

SON2400C (5.0 credit hours)
Introduction to Echocardiography

Introduces cardiac anatomy, physiology, pathophysiology of the adult heart, B-Mode, M-mode and Doppler testing in the detection of normal and disease states. Prerequisite: SON2835

SON2835 (2.5 credit hours)
Vascular Clinical Rotation IV
Assigns students to area medical facilities for clinical education, providing them an opportunity to apply knowledge and skills learned in SON2176C (Abdominal Vascular Sonography) and to acquire other skills necessary in the profession of vascular sonography. Prerequisite: SON2176C

SON2845 (2.5 credit hours)
Vascular Clinical Rotation V
Assigns students to area medical facilities for clinical education, providing them an opportunity to apply knowledge and skills learned in SON2176C (Abdominal Vascular Sonography) and to acquire other skills necessary in the profession of vascular sonography. Prerequisite: SON 2835

SON2855 (2.5 credit hours)
Vascular Clinical Rotation VI
Assigns students to area medical facilities for clinical education, providing them an opportunity to apply knowledge and skills learned in SON2176C (Abdominal Vascular Sonography) and SON2400C (Introduction to Echocardiography) and to acquire other skills necessary in the profession of vascular sonography. Prerequisite: SON2845

SON2865 (2.5 credit hours)
Vascular Clinical Rotation VII
Assigns students to area medical facilities for clinical education, providing them an opportunity to apply knowledge and skills learned in SON2176C (Abdominal Vascular Sonography) and SON2400C (Introduction to Echocardiography) and to acquire other skills necessary in the profession of vascular sonography. Prerequisite: SON2855

Lower Division General Education Requirements
See specific Lower Division general education requirements for an Associate of Science degree in Diagnostic Vascular Sonography in the Program Descriptions section of this catalog.

PAGES 382-383, AS MEDICAL ASSISTING COURSE DESCRIPTIONS

Replace these sections with the following:

MEA2806 (3.5 credit hours)
Externship I
Provides an opportunity for students to demonstrate competency in administrative and clinical aspects of medical assisting during an assignment in a healthcare facility. The externship introduces medical assistants to the working environment they encounter when employed in the field. Prerequisite successful completion of major academic courses (MEA1206C, 1267C and 2268C must be completed with a grade of "C" or higher)

MEA2807 (3.5 credit hours)
Externship II
Provides an opportunity for students to demonstrate competency in administrative and clinical aspects of medical assisting during an assignment in a healthcare facility. The externship introduces medical assistants to the working environment they encounter when employed in the field. Prerequisite successful completion of major academic courses (MEA1204C, MEA1267C and MEA2268C must be completed with a grade of "C" or higher, and completion of Program Assessment Examination)

PAGE 388, AS NURSING COURSE DESCRIPTIONS

Please replace this section with the following:

NURSING
Associate of Science
Major Course Requirements

NUR1022C (8.0 credit hours)
Fundamentals of Nursing
Provides a foundation for the nursing program. Introduces the history and practice of nursing, including standards of nursing practice and concepts basic to nursing that are applied throughout the curriculum. Critical thinking as embodied in the nursing process is emphasized, including in-depth study in a classroom setting and application in skills laboratories and clinical settings. Normal functional health patterns are explored in the context of the physical, biological and social sciences. Laboratory components include practice in basic nursing assessment skills, such as completion of health history and physical assessment techniques and common nursing skills that support basic human needs. Principles of safety, asepsis and infection control are emphasized throughout. Opportunities for application of basic nursing skills clinical experiences are provided in ambulatory and long term health care settings.

NUR1140C (4.0 credit hours)
Nursing Pharmacology
Presents essential concepts and principles of pharmacology as applied to nursing practice. Emphasis is on application of the nursing process to the care of clients receiving pharmaceutical agents. The knowledge and skills required for safe, effective administration of therapeutic drugs are an integral part of this course. The course contains a number of critical skills related to dosage calculation and medication administration.

NUR1211C (8.0 credit hours)
Basic Adult Healthcare
Focuses primarily on basic medical-surgical nursing care of adults who are acutely or chronically ill. The course builds upon learned concepts and skills introduced in prerequisite nursing and general education courses. A continuation of dosage calculations is evident. The patho-physiologic basis for diseases along with the client's adaptive responses are explored and discussed. Secondary/acute care settings, particularly hospitals, are utilized in this course.

NUR2230C (8.0 credit hours)
Advanced Adult Healthcare
Continues NUR1211C (Basic Adult Health Care). Builds upon the knowledge and skills acquired in this course, including continued integration of the concepts central to the practice of nursing. A continuation of dosage calculation is emphasized. Didactic and clinical content related to complex concepts and skills associated with medical-surgical and mental health nursing are presented within the framework of the nursing process. Mental health nursing components include the further development of student communication skills, and conceptual abilities as related to the dynamics of human behavior and therapeutic responses. Secondary and tertiary care settings are primarily utilized for clinical experiences, including general/acute care hospitals, psychiatric hospitals and community mental health centers.

NUR2421C (4.0 credit hours)
Maternity Nursing Care
Focuses primarily on maternity nursing care, with exposure to common problems associated with the health of mother, newborn and family. Concepts and skills learned in NUR1211C are integral to this course, with emphasis on developmental theories as they relate to the care of the family unit. Dosage calculations related to maternity care are emphasized. Primary, secondary and tertiary care settings may be utilized for clinical experiences, including outpatient care and hospitals.

NUR2310C (4.0 credit hours)
Pediatric Nursing
Focuses primarily on the interrelated dynamics of pediatric families; with exposure to common recurring and complex problems associated with the health of the pediatric client/patient within the family unit. Concepts and skills presented in NUR1022 and NUR1211C are integral to this course, with emphasis on developmental theories as they relate to the care of children. Dosage calculations related to pediatric clients are emphasized. Primary,

secondary and tertiary care settings may be utilized for clinical experiences, including outpatient care, hospitals and pediatric programs (which may include outpatient, inpatient and community care).

NUR2823C (3.0 credit hours)
Nursing Leadership and Management
Requires students to utilize knowledge and skills acquired in previous nursing courses in the context of leading a healthcare team in caring for a group of patients. Didactic and clinical content includes such areas as the development of first-line management and leadership skills in the context of the organizational structure; collaborative decision-making; prioritization and time management. A continuation of dosage calculation is evident. Clinical experiences may include secondary and tertiary care settings such as hospitals and long term care.

NUR2811C (3.0 credit hours)
Nursing Practicum
Enables students to independently demonstrate the critical competencies expected of the entry-level associate degree nurse. Classroom content relates to the preparation of the student for assuming the role of professional nurse. The clinical component is an individualized experience of general or specific interest proposed by the student and selected in collaboration with faculty and an RN preceptor. Individualized goals and objectives are developed, with ongoing supervision of progress by faculty and the RN preceptor. A continuation of dosage calculation is evident.

Lower Division General Education Requirements
See specific Lower Division general education requirements for an Associate of Science degree in Nursing in the Program Descriptions section of this catalog.

PAGE 394, PHYSICAL THERAPIST ASSISTANT COURSE DESCRIPTIONS

PHYSICAL THERAPIST ASSISTANT
Associate of Science Degree
Major Course Requirements

PHT1000C (5.0 credit hours)
Introduction to Physical Therapist Assistant
Provides an introduction to the physical therapy profession with an emphasis on the role and scope of practice of the physical therapist assistant. Topics include: Standards of Practice, Code of Ethics, Guide for Conduct of the PTA, physical therapy departmental structure, psychosocial, cultural and socioeconomic considerations in patient interaction, reimbursement issues, legislative issues, research and current developments in the field. This course also studies anatomical terminology, the skeletal system including the structure and function as well as physiology, joint articulations, and the muscular and nervous systems. Prerequisites: Admission to the PTA Program and successful completion of general education requirements with a cumulative GPA of 3.0 on a 4.0 scale and earned a minimum of a B in both Anatomy and Physiology I and II.

PHT1121C (4.0 credit hours)
Kinesiology
Provides an in-depth study of the musculoskeletal system emphasizing its effect on functional human motion. Emphasis is on normal function. Students will apply biomechanical principles and muscle actions to joint motions and will learn normal aspects of gait and posture. Prerequisite: PHT1300

PHT1216C (4.0 credit hours)
Functional Modalities
Focuses on the knowledge and skills necessary for applying modalities used in physical therapy treatment. Emphasis is on superficial and deep heat, cryotherapy, massage, electrotherapy, massage, and traction. Prerequisite: PHT1261C

PHT1227C (2.0 credit hours)

Therapeutic Exercise I

Focuses of the study of therapeutic exercise techniques, procedures and biofeedback. Emphasis is on various techniques used for strengthening, stretching, ROM, endurance and the associated body mechanics. Specific exercises will then be applied to the upper extremity. Prerequisite: PHT2801

PHT1228C (4.0 credit hours)

PHT1228C (4.0 credit hours)

Therapeutic Exercise II

Focuses on the study of therapeutic exercise techniques and procedures. Students will apply concepts presented in Therapeutic Exercise I to this course. Emphasis is on therapeutic exercises for orthopedic, vascular, cardiac, pulmonary, and obstetric patients. Prerequisite: PHT1227C

PHT1251C (4.0 credit hours)

Patient Care Procedures

Focuses on the development of basic physical therapy skills and procedures. Emphasis is on the patient, environmental safety, positioning, transfers, wheelchair management, vital signs, goniometry, gait training with assistive devices, body mechanics, intermittent compression, biofeedback, and clinical documentation. Prerequisite: PHT1121C

PHT1261C (4.0 credit hours)

Tests and Measurements

Focuses on skills necessary to perform physical therapy test and measurement procedures. Emphasis is on manual muscle testing, muscle tone, muscle length, limb length, volume and girth, sensation, coordination and balance, activities of daily living, architectural barriers, pain, reflexes, gait and posture. In addition, theories of development and developmental sequence, prehension, life span changes in the body systems, posture development throughout the life span, primitive reflexes, righting reactions. Prerequisite: PHT1251C

PHT1300 (6.0 credit hours)

Medical Diseases

Surveys the disease processes with an emphasis on diseases commonly seen in physical therapy. Topics include: the immune system, genetic disorders, infections, metabolic disorders, neoplasms, respiratory system, cardiovascular system, gastrointestinal system, hepatobiliary system, endocrine system, nervous system, musculoskeletal system, excretory system, integumentary system, reproductive system and psychiatric disorders. This course also provides an introduction to basic medical terminology with certification in CPR, OSHA/HIV, and Medical errors earned upon the course completion. Prerequisite: PHT1000C

PHT2143C (4.0 credit hours)

Rehabilitation

Provides an opportunity to develop knowledge and skills in the rehabilitation procedures and techniques utilized with various neurological diagnoses. Topics include neurological principles and neuro-rehabilitation as well as rehabilitation techniques and concepts utilized with amputations, prosthetics and orthotics. In addition, pediatric diagnoses and treatment will be reviewed. Prerequisite: PHT1228C

PHT2801 (1.0 credit hour)

Clinical Experience I

A two-week (40 hours per week) clinical experience providing the student with the opportunity to practice skills taught in previous course work. The student will work under the direct supervision of and with the assistance of the clinical instructor at the assigned facility. 80 hours of clinical experience in an assigned facility. Prerequisite PHT1216C

PHT2810 (5.0 credit hours)

Clinical Experience II

A six-week (40 hours per week) clinical experience providing an opportunity for the student to apply knowledge and skills from all previous academic and clinical education, under the supervision of a clinical instructor at an assigned facility. Prerequisite: PHT2143C

PHT2820 (5.0 credit hours)
Clinical Experience III
A six-week (40 hours per week) clinical experience that allows the student to develop competency in the practice of physical therapy technique and procedures, under the supervision of a clinical instructor at an assigned facility. Students in this course are preparing themselves to function as entry-level physical therapist assistants. Prerequisite: PHT2810A/B.

Lower Division General Education Requirements
See specific Lower Division general education requirements for an Associate of Science degree in Physical Therapist Assistant in the Program Descriptions section of this catalog.

PAGES 416-428, GENERAL EDUCATION COURSE DESCRIPTIONS

Remove the following discontinued upper division courses and course descriptions:

- COM4022 Healthcare Communications
- CGS3163C Computers in Criminal Justice
- CGS3343C Management Information Systems for Health Organizations
- ENC3223 Business Writing for Accountants
- STA3143 Statistical Methods for Healthcare

Relocate the following course descriptions from PUBLIC SAFETY, Bachelor of Science Degree, Major Course Requirements, to GENERAL EDUCATION BEHAVIORAL/SOCIAL SCIENCE:

POS3063 (3.0 credit hours)
Intergovernmental Relations
Interactions among federal, state, and local levels of government, policies and administrative structures and process at the various levels of government are studied.

POS4142 (3.0 credit hours)
Urban Government Social Policy
Historical review of urbanization in America, the governmental and political structures as they function in urban areas, and the discussion of urban, social and political problems.

Add the following new general education course descriptions within the classifications listed below:
COMMUNICATIONS

COM3131 (3.0 credit hours)
Interpersonal Communication for Professionals
Presents an overview of intrapersonal and interpersonal communication issues in a professional setting and explores complex communication patterns between internal and external professional relationships. Topics focus on intrapersonal and interpersonal effectiveness, values and ethics, diversity, team and work group communication, conflict management, leadership, and networking.

HUMANITIES/FINE ARTS

CWL1000 (3.0 credit hours)

Contemporary World Literature
Explores select authors from several genres in twentieth century world literature. Topics include historical background, social, cultural, and political forces, literary genres and elements.

MATHEMATICS

STA3163 (3.0 credit hours)
Intermediate Statistics
This course presents tools for the analysis of data. Specific topics include: normal distribution, tests of means, proportions, ANOVA, regression, multiple regression, correlation, and nonparametric methods. A computerized statistical tool is used in the course for data analysis. Prerequisite: STA2023.

Amend the following general education courses within the classifications listed below:

ENGLISH
Former course:
ENC3213 (3.0 credit hours)
Writing for Managers

Replace with amended course: Change of course title
ENC3213 (3.0 credit hours)
Professional Writing
Prepares students to write professionally in support of management objectives for audiences within and outside a corporation, public administration, or non-profit organization.

COMMUNICATIONS
Former course:
SPC1010 (3.0 credit hours)
Speech

Replace with amended course: Change of course number and title
SPC1017 (3.0 credit hours)
Speech Communications
Focuses on preparation and delivery of different types of speeches. Topics include techniques to improve interpersonal communication skills, job interviewing, and working in teams.

Former course:
COM4022 (3.0 credit hours)
Healthcare Communications

Replace with new course:
COM3131 (3.0 credit hours)
Interpersonal Communication

COMPUTERS

Former course:

CGS3343C (3.0 credit hours)
Management Information Systems for Health Organizations

Replace with existing course:
CGS3300 (3.0 credit hours)
Management Information Systems

Reassign from General Education courses to BS Management Information Systems major courses (in course descriptions and course listings):

CGS3760C (3.0 credit hours)
Operating Systems
Introduces fundamental concepts of operating systems and their implementation, maintenance and troubleshooting. Students learn various versions of Windows, experience their use in a virtual laboratory and prepare for the software portions of the Comp TIA A+ certification examination.
CTS3135 (3.0 credit hours)
Computer Architecture Concepts
Provides detailed information on computer hardware, operating systems and networks. Students learn to dissemble and reassemble computers, troubleshoot and upgrade hardware, install, administer and troubleshoot Windows and LINUX operating systems and implement a small network. At the end of the course, students are prepared to sit for the A+ certification.

ECONOMICS

Reassign from General Education course to BA Business Administration major course (in course descriptions and course listings):

ECO4223 (3.0 credit hours)
Money and Banking
Examines the roles of money and credit in the American economy, emphasizing the impact of monetary factors on income and prices. Topics include the functions of money, interest rates, foreign exchange, the international financial system, the Federal Reserve system, monetary policy, financial derivatives and inflation.

MATHEMATICS

Former Courses:
*STA3060 (3.0 credit hours)
Research and Statistical Analysis
**Students in the Bachelor of Arts degree with a major in Accounting will take this course to meet the course requirement of STA3163 Intermediate Statistics.*

STA3143 (3.0 credit hours)
Statistical Methods for Healthcare

Replace both courses with new course:
STA3163 (3.0 credit hours)
Intermediate Statistics

PAGE 420, ESOL COURSE COURSE DESCRIPTIONS

Amend the course descriptions for these four courses as follows:

ENGLISH

[PLEASE NOTE: **ESOL courses are not transferable and do not constitute credit toward meeting graduation requirements.]**

EAP0108 (3.0 credit hours)
ESOL Level 1
This course is for Basic English Level 1 students starting with either no or very little English and is presented in a blended learning format. Students will build grammar, listening, and reading and writing skills at the beginner level. Students will engage in classroom activities with peers and the teacher, in technology-enhanced learning, and in simulations. The topics covered in the course are: alphabet, numbers, dates, commands, meet someone new, introduce yourself and others, meet someone you know, animals, food, talk about family, talk about hobbies and interests, talk about routines. Prerequisite: Placement test score

EAP0208 (3.0 credit hours)
ESOL Level 2
This course is for Basic English Level 2 students starting with elementary English skills and is presented in a blended learning format. Students will develop grammar, listening, reading and writing, and comprehension skills at an expanded Basic English skills level. Students engage in classroom activities with peers and the teacher, in technology-enhanced learning, and in simulations. The topics covered in the course are: weather, describe exteriors, describe interiors, body, describe people, talk about occupations, talk about places, make an appointment, make and receive phone calls ask and give directions. Prerequisite: Successful completion of Level 1 or placement test score

EAP0308 (3.0 credit hours)
ESOL Level 3
This course is for Intermediate English Level 3 students starting with high beginner English skills and is presented in a blended learning format. Students will develop grammar, listening, reading and writing, and comprehension skills at an expanded Intermediate English level. Students engage in classroom activities with peers and the teacher, in technology-enhanced learning, and in simulations. The topics covered in the course are: manage a conversation, get people's attention, interrupt, apologize, agree and disagree, make invitations, make plans, give instructions, tell about the past, tell about the future, describe a place, compare objects, compare people. Prerequisite: Successful completion of Level 2 or placement test score

EAP0408 (3.0 credit hours)
ESOL Level 4
This course is for Intermediate English Level 4 students who have a lower intermediate mastery of English. This course is presented in a blended learning format. Students will develop grammar, listening, reading, writing, and comprehension skills at a high intermediate level. Students engage in classroom activities with peers and the teacher, in technology enhanced learning, and in simulations. The topics covered in the course are: tell about customs, make a complaint, tell a story, support an opinion, give advice, compare places, state advantages and disadvantages, and describe an event. Prerequisite: Successful completion of Level 3 or placement test score

PAGE 427, GENERAL EDUCATION COURSE DESCRIPTIONS

Replace HUN3107 with the following:

HUN3107 (3.0 credit hours)
Nutrition

This course presents essentials of normal nutrition and their relationship to the health of individuals and families. These concepts serve as a basis for the development of an understanding of therapeutic application of dietary principles and a nurse's role and responsibility in this facet of patient care.

PAGE 430, REQUIREMENT FOR GRE/MAT SCORES MAY BE WAIVED

Replace the fourth bullet with the following text:

- Completion of the first semester of enrollment with a minimum grade average of 3.0

PAGE 436, COSTS OF DOCTORAL DEGREE PROGRAMS

Replace the table with the following:

Initial Fees

Application Fee (one-time charge, non-refundable)	$ 50.00
Registration Fee (one-time charge, non-refundable)	$ 145.00

Tuition per Semester*

Full Time	12 credits +	$8,904.00
Three-Quarter Time	9 to 11.99 credits	$6,678.00
Half Time	6 to 8.99 credits	$4,452.00
Dissertation Full Time	3 credits	$4,452.00
Residency		$1200.00

Education Fee per Semester**

Day, Evening and Weekend	$ 600.00

Other Fees

Withdrawal Fee	$ 100.00
Re-Entry Fee	$ 150.00
Residency Fee	$1200.00
Textbooks average $600.00 per semester	

PAGE 438, GRADUATE SATISFACTORY ACADEMIC PROGRESS

Replace the first two paragraphs with the following:

Graduate students at Keiser University are expected to maintain satisfactory academic progress and to make ongoing progress toward graduation. There are two standards that must be met: a qualitative standard and a quantitative standard.

The qualitative standard requires that a student achieve a minimum grade average of 3.0 after completing every semester at Keiser University. All students must achieve a minimum grade average of at least 3.0 in order to graduate from Keiser University.

PAGE 439, SCHEDULE CHANGES

Replace this section with the following:

Students who register for a class that is canceled or have scheduling errors are given schedule change assistance by the Advisor, Department Chair or the Dean of the Graduate School. Dates and times for schedule changes are posted as far in advance as possible.

PAGES 440, GRADUATE SCHOOL GRADING POLICY

Replace the section after the first paragraph with the following:

Letter Grade	Interpretation	Numerical Value	Numeric Grade
A	Excellent	4.0	90 - 100%
B	Good	3.0	80 - 89%
C	Average	2.0	70 - 79%
F	Failing	0.0	Less than 70%
P	Pass	Not Computed	
LP	Limited Progress	Not Computed	
RC	Residency Complete		
RNC	Residency Not Completed		
AU	Audit	Not Computed	
I	Incomplete	Not Computed	
W	Withdrawal	Not Computed (prior to 50% completion)	
WF	Withdrawal Failing	0.0 (after 50% completion)	
WNA	Withdrawal/ No Attendance	Not Computed	
T	Transfer Credit	Not Computed	

Grades are posted online at the end of each term. Students receiving an Incomplete in any subject must meet with their instructor to discuss satisfactory arrangements to fulfill course requirements. Course assignments for an Incomplete must be completed within four (4) weeks of the beginning of the next term. Exceptions to this policy must be approved by the Dean of the Graduate School. Failure to complete the work within this four-week time period will, without administrative approval, result in a failing grade.

Dissertation grades, Pass, Fail, and Limited Progress, are awarded at the end of every dissertation course block. Limited Progress grades are awarded when a doctoral candidate successfully completes all but one course benchmarks with the expectation that the remaining benchmark can be completed within two weeks. Exceptions to this policy must be approved by the Dean of the Graduate School.

PAGES 443–451, ADMINISTRATION, FACULTY, AND STAFF—OFFICE OF THE CHANCELLOR

Update titles for administrative staff as follows:

Associate Vice Chancellor of Military Affairs
Jan Del Signore
MS University of La Verne
BS Mount Olive College

Benjamin Williams, Assistant Associate Vice Chancellor of Library System
Arthur Ortiz, Assistant Associate Vice Chancellor of Institutional Projects
Christopher Stabile, Assistant Associate Vice Chancellor of the Center for Teaching and Learning
David Kreitner, Assistant Associate Vice Chancellor of Quality Enhancement and Compliance
Michael Record, Assistant Associate Vice Chancellor of the Writing Center

PAGE 463, ADMINISTRATION, FACULTY, AND STAFF—FT. LAUDERDALE RESPIRATORY THERAPY FACULTY

Kenneth Gordon, RRT
Program Director
MPS SUNY at Stony Brook
BS Long Island University

Marianne Jankowski, RRT
Director of Clinical Education

DrHSc (c) Nova Southeastern
MBA, MS Walden University
BS Florida Atlantic University
AAS Brookdale Community College

Darren Hoffberger, DO
Medical Director
DO Nova Southeastern University
BA Washington University

PAGE 467, ADMINISTRATION, FACULTY, AND STAFF—PHYSICIAN ASSISTANT FACULTY

Replace this section with the following:

Program Director
Helen Martin, DHSc, MMS, PA-C, MT. ASCP
DHSC – Nova Southeastern University,
M.M.S – Nova Southeastern University,
B.S. PA – Nova Southeastern University,
B.S. M.T – Louisiana State University

Adrian Andrews, MPAS, PA-C
MPAS – University of Nebraska Medical Center
BS – State University of New York Downstate

Ilissa Jackson, MCMS, PA-C
M.C.M.S Barry University
B.S. W. FAU

Zachary Lahlou
M.D. American University
M.B.A. San Francisco State University
B.A. University of Ottawa

Thao Tran
M.D. University of Minnesota Medical School
B.S. California State Polytechnic University

Joyce Wagner, MCMS, PA-C
M.C.M.S. Barry University
M.B.A. University of Miami

Administrative Assistant
Nikki Merrell

PAGE 492, ADMINISTRATION, FACULTY, AND STAFF, KENDALL CAMPUS

Replace the name “Kendall Campus” with “Miami Campus”.

PAGE 510, ADMINISTRATION, FACULTY, AND STAFF, PEMBROKE PINES CAMPUS

Make the following adjustments to the listing:

Campus President
Cecil Kidd
BA Principia College

Dean of Academic Affairs
Anie Bonilla
B.A. Chapman University
M.S. California School of Professional Psychology
PhD California School of Professional Psychology

Librarian
Assistant Librarian
Timothy Gullien
BA Florida State University
MA University of South Florida

Bonnie Marshak
BA State University of New York College at Brockport
MA Long Island Universtiy, C.W. Post Center

Faculty – Histotechnology
Galina Negrouk, Program Director
B.S. Moscow State University
A.S. Miami Dade College

Noel Carter
MA University of Miami
BA University of Miami

[Delete:
~~Diana Harrington~~
~~B.S. Indiana University~~]

Clinical Education Coordinator
Lumene Paul
B.S. Florida Metropolitan University

PAGE 542, GRADUATE SCHOOL TERM CALENDAR 2011

Replace Semester I with the following:

Term Calendar 2011

Semester I

01/01/11	**New Years Day**
01/03/11-02/26/11	Term A Classes Begin
01/17/11	**Martin Luther King Jr. Day**
01/18/11	Return
02/21/11	**President's Day**
02/22/11	Return
02/28/11-04/23/11	Term C Classes Begin
04/24/11-04/29/11	**Spring Break**