

**CAMBRIDGE**  
COLLEGE OF HEALTHCARE & TECHNOLOGY



**INSTITUTIONAL CATALOG ADDENDUM**  
**Altamonte Springs Campus**  
**4/9/2021**

## **FACULTY & ADMINISTRATION:**

### **CORPORATE ADMINISTRATION**

Dr. Terrence LaPier, Ph.D. – President/CEO

Pat Guariglia - CFO

Julie Orloff, M.Ed. – Vice President of Compliance & Regulatory

Alejandro Manrique – Corporate Director of Financial Aid

Dominique Werner – Online Operations Administrator/Corporate Registrar

Stacey Crain – Director of Online Academic Engagement

### **CAMPUS ADMINISTRATION**

Gabriel Garces—Campus Dean

Sheree Ford—Enrollment Manager

Monica Robles—Financial Aid Manager

Kristie Morales—Registrar

Theresa Mantovani—Career Services Director

Stacey Crain – Librarian Online

### **EDUCATION**

**Laura Afghani, MSN, BSN, FNP, RN**

PN Instructor

MSN – Nova Southeastern University, Tampa, FL

BSN – Remington College of Nursing, Lake Mary, FL

**Tameika Anderson, MSN, BSN, RN-adjunct**

PN Instructor

MSN-Medical University of South Carolina, SC

BSN- Medical University of South Carolina, SC

**Darlene Auguste, RN, MSN**

Clinical Coordinator – Nursing

MSN, University of Phoenix, Phoenix AZ

**Stephanie Bain, MA, BSN, RN, CMSRN**

PN-Full Time

MA Human Services Counseling, Liberty University, VA

BSN, Jacksonville University, FL

ASN, Lake Sumter Community College, Leesburg, FL

**Faye Blakeney, BSN, RN**

Program Dean Nursing Assistant

BSN, Florida Southern College, Lakeland, FL

ASN, Keiser University, Orlando FL

**Catherine Caudle, RCS, RVS**

DMS Instructor

AS, Sonography, Central Florida Institute, Orlando, FL

**Lisa Crigler, DPM**

Adjunct Instructor

Doctorate of Podiatric Medicine, Barry University, Miami Shores, FL

MS in Biomedical Sciences, Barry University, Miami Shores, FL

BS in Biology, University of Central Florida, Orlando, FL

**Stacy Di Bartolomeo, CRT**

Radiologic Technology Program Dean

PhD Educational Leadership Educational Leadership

North Central University, Orlando, FL

AS of Applied Sciences in Radiologic Sciences.

The Community College of Baltimore County, Rosedale MD

**Quang Duong, MSN-APRN, BSN, RN**

Nursing Instructor

MSN, Maryville University, St. Louis MO

BSN, Remington College of Nursing, Lake Mary, FL,

**Lara Eldon, MSN-Ed, BSN, RN**

Nursing Instructor

MSN, Walden University, Minneapolis, MN

BSN, St. Petersburg College, Pinellas Park, FL

ASN, St. Petersburg College, Pinellas Park, FL

**Tara-Karin Estes, RN**

Nursing Instructor

BSN, University of Tennessee, Knoxville, TN

**Jesse Frauenhofer, MS, RDMS, RVT**

Diagnostic Medical Sonography Program Dean

MS in Criminal Justice, University of Central Florida, Orlando, FL

BS in Criminal Justice, University of Central Florida, Orlando, FL

AS in Diagnostic Medical Sonography, Sanford Brown Institute, Tampa, FL

**Nicole Y. Garcia-Santiago, MHS, RDMS, RVT**

Instructor – FT

Masters in Health Science, Saint Francis University, Loreto, PA

BS in Medical Sonography Vascular and Echocardiography Technologist, Carolina PR

**Ashley Goebel, RDMS**

Diagnostic Medical Sonography Clinical Coordinator

BSA Anthropology University of Central Florida Orlando FL

AS Diagnostic Medical Sonography, Central Florida Institute, Orlando FL

**Bethsaida Gonzalez, MSN, BSN, RN-**

Instructor

MSN-Kaplan University Online School

BSN-Kaplan University Online School

**Pamela Gyce, RMA**

Medical Assistant & Phlebotomy Lead Instructor

AAS Medical Assistant & Office Administration, Virginia College, Birmingham, AL

**Robin Hobbs, MSN, BSN, RN**

PN Instructor

MSN – Excelsior College, Albany, NY

BSN – Excelsior College, Albany, NY

**Ashanti Johnson, MSN-Ed, BSN, RN- Full Time**

ASN Nursing Program Dean

PN Program Dean

MSN- University of Central Florida, Orlando, FL

BSN- University of Central Florida, Orlando, FL

ASN – Seminole State, Sanford, FL

**Tiffany Johnson, RRT- adjunct**

BS in Health Service Administration, Keiser University, Orlando, FL

AS in Radiologic Technology, Keiser University, Orlando, FL

**Jilleyn Jones, CRT – Full Time**

Radiologic Technology Program Clinical Coordinator

BS in Health Sciences. Grand Canyon University Phoenix AZ

AS, Medical Imaging, College of Lake County, Grayslake, IL

**Mohammad Hassan Khan, MSN, ARNP, RN - adjunct**

PN Instructor

MSN, Florida International University, Miami, FL

BSN, Florida International University, Miami, FL

**Anthony Marchese, MSN, BSN, ASN - Full Time**

ASN Full-Time Instructor

MSN, Nova Southeastern University, Ft. Lauderdale, FL

BSN, St. Joseph's College, Brooklyn, NY

ASN, La Guardia Community College, Queens, NY

**James Morgan, DC**

Full-Time Instructor

Doctorate of Chiropractic, Palmer College of Chiropractic, San Jose, CA

**Samantha Paramesvaran, MSN, BSN, RN - adjunct**

ASN/PN Instructor

MSN, University of Central Florida, Orlando, FL

BSN, Johns Hopkins University, Baltimore, MD

**Jesenia Perez, MSN, BSN, RN**

PN Instructor

MSN – Western Governors University, Salt Lake City, UT

BSN – University of Central Florida, Orlando, FL

**Brianna Pichard, MSN-FNP, BSN, RN**

ASN/PN Instructor

MSN, South University, Orlando, FL

BSN, Indiana State University, Terre Haute IN

**Regine Pierre-Antoine, MSN, BSN, RN**

PN Instructor

MSN – Walden University, Minneapolis, MN

BSN – Bowie State University, Bowie, MD

**Monique Prince, BSN, RN**

PN Instructor

BSN, University of West Florida, Pensacola, FL

ASN, Nassau Community College, Garden City, NY

**Marcia Richardson, MSN, BSN, RN**

PN Instructor

MSN – West Coast University, Los Angeles, CA

BSN – Chamberlain University, Chicago, IL

**Kevin Riley – RN, BSN, MSN—Full Time**

PN Instructor

MSN, University of Phoenix, Maitland, FL

**Pamela Rutledge, BSN, RN—Full Time**

ASN Instructor

BSN, Chamberlain University, Chicago, IL

ASN, McEwan University, Edmonton AB, Canada

**Joanne S. Simmons, DNP, MSN-Ed, RN, CMSRN, RN-BC**

PN Instructor

DNP, Walden University, Baltimore, MD

MSN-Ed, Walden University, Baltimore, MD

BSN, University of Texas, Arlington, TX

**Lakisha Smith, LPN**

Phlebotomy Instructor

Certificate – Practical Nursing, Lincoln Technical Institute, Fern Park, FL

Phlebotomy Technician Certificate, Orlando Academy School of Health Professions, Orlando, FL

Certificate in Nursing Assistant, Cambridge Institute of Allied Health, Orlando, FL

**Rishonne Strachan, MSN, BSN, RN—Adjunct**

ASN Instructor

MSN, Walden University, Minneapolis, MN

BSN, College of Bahamas, Nassua, Bahamas

**Mayble Thomas, RN, BSN, MSN, ARNP—Full-Time**

PN Instructor

MSN, South University, Savannah, GA

BSN, La Salle University, Philadelphia, PA

**Kissa Yarbough, MSM**

MA Instructor

MS Management, concentration Healthcare Management, Colorado Technical University, Colorado Springs, CO

BS Healthcare Administration, Pima Medical Institute, Albuquerque, NM

AA Healthcare Administration, University of Phoenix, Phoenix, AZ

Diploma Medical Assistant/Phlebotomy, Platt Technical College, Dallas, TX

## **General Education Instructors**

**Gregory Cecere**

Instructor

Florida Atlantic University, Masters of Arts in English Literature

Florida International University, Bachelors of Arts in English

**Jennifer Hoyte, Ph. D., EdS**

Instructor

Bachelor of Science in Mathematics and Computer and Information Science with distinction in Computer Science  
– The Ohio State University

Master of Science in Computer and Information Science – The Ohio State University

Educational Specialist in Curriculum and Instruction – Florida International University

Doctor of Philosophy in Mathematics Education - Florida International University

**Christine Shields, MSN, BS**

Instructor

University of Miami, MS Zoology

West Indies, Kingston Jamaica, BS Biology Chemistry

**Melissa Weaver**

Online Faculty

MS, Communication, University of Tennessee

BA, Speech Pathology, University of Tennessee

**Melissa Chisholm**

Online Faculty

Masters of Fine Arts, Graphic Design, Miami International University of Art & Design

Bachelors of Fine Arts, Visual Communication/Digital Design, American International University

## ACADEMIC SCHEDULE

The following dates are potential start dates for each program of study and the expected completion date. These dates are subject to change, according to enrollment numbers and changes in a student’s progression through the program.

### *CAMBRIDGE MASTER CALENDAR*

#### **CAMBRIDGE MASTER CALENDAR FOR CREDIT GRANTING PROGRAMS ONLY**

FULL SEMESTER DATES	SESSION 1	SESSION 2
01/04/2021 – 04/23/2021	01/04/21 - 02/24/21	02/25/21 – 04/23/21
05/03/2021 – 08/20/2021	05/03/21 – 06/23/21	06/24/21 – 08/20/21
08/30/2021 – 12/17/2021	08/30/21 – 10/21/21	10/22/21 – 12/17/21
01/03/2022 – 04/22/2022	01/03/22 – 02/23/22	02/24/22 – 04/22/22
05/02/2022 -08/19/2022	05/02/22 – 06/22/22	06/23/22 – 08/19/22
08/29/2022 – 12/16/2022	08/29/22 – 10/19/22	10/20/22 – 12/26/22
01/09/2023 – 04/28/2023	01/09/23 – 03/01/23	03/02/23 – 04/28/23
05/08/2023 – 08/25/2023	05/08/23 – 06/28/23	06/29/23 – 08/25/23
09/05/2023 – 12/22/2023	09/05/23 – 10/25/23	10/24/23 – 12/22/23

Scheduled Breaks for All Students:
Spring 2021: 03/13/2021 – 03/21/2021 ATLANTA ONLY: 04/03/2021 – 04/11/2021
Summer 2021: 07/03/2021 – 07/11/2021
Fall 2021: 11/20/2021– 11/28/2021
Winter 2021: 12/18/2021 – 01/02/202
Spring 2022: TBD
Summer 2022: 07/02/2022 – 07/10/2022
Fall 2022: 11/19/2022– 11/27/2022
Winter 2022: 12/17/2022 – 01/08/2023

Holidays - All Students:
Martin Luther King Day
Presidents’ Day
Memorial Day
Labor Day
Veterans Day

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## **CLOCK HOUR PROGRAMS**

PROGRAM	START DATE	GRAD DATE
Practical Nursing	1/25/2021	10/28/2022
	2/15/2021	4/28/2022
	4/19/2021	2/3/2023
	5/17/2021	7/1/2022
	7/19/2021	5/12/2023
	8/23/2021	10/7/2023
	10/11/2021	8/4/2023
Phlebotomy	11/29/2021	1/27/2023
	2/8/2021	5/3/2021
	8/9/2021	10/25/2021
Nursing Assistant	11/1/2021	2/8/2022
	1/4/2021	2/8/2021
	4/19/2021	5/21/2021
Medical Assistant	8/2/2021	9/3/2021
	11/8/2021	12/17/2021
	2/17/2021	11/12/2021
	4/14/2021	1/21/2022
	6/21/2021	4/1/2022
	7/27/2021	4/29/2022
9/27/2021	7/1/2022	
11/16/2021	8/26/2022	

### **Hours of Operation**

Monday thru Friday 8:30am – 10:00p

### **TUITION & FEES**

**(Books and Supplies Included in the Tuition)**

***Effective May 6, 2019***

Program	Application Fee	Tuition (Books & Supplies Included)	Other Fees not in Tuition

Diagnostic Medical Sonography	\$50.00**	\$50,006.00	\$80.00 Grad Fee
Practical Nursing	\$50.00	\$23,499.00	\$80.00 Grad Fee
Radiologic Technology	\$50.00**	\$40,479.00	\$80.00 Grad Fee
Medical Assistant	\$50.00**	\$12,200.00	\$80.00 Grad Fee
Phlebotomy Technician	\$50.00**	\$1,980.00	N/A
Nursing Assistant	\$50.00**	\$1,475.00	N/A
Occupational Therapy Assistant	\$50.00**	\$36,873.00	\$80.00 Grad Fee
Physical Therapy Assistant	\$50.00**	\$33,804.00	\$80.00 Grad Fee
Medical Laboratory	\$50.00**	\$35,100.00	\$80.00 Grad Fee
Radiation Therapy Program	\$50.00**	\$42,230.00	\$80.00 Grad Fee
Pharmacy Technician	\$50.00**	\$14,400.00	\$80.00 Grad Fee
Patient Care Technician	\$50.00**	\$11,840.00	\$80.00 Grad Fee

The above tuition prices include the cost of textbooks, one set of scrubs & lab fees.

**\*\* Indicated all application fees are Non Refundable**

## Update to the Mission Statement Page 3 of the catalog

Cambridge College of Healthcare & Technology is a private, academic and student-centered institution of higher education that is dedicated to providing excellent pedagogical teaching and hands on training to traditional and nontraditional students. With Cambridge's significant history, the emphasis on an outstanding student culture continues with focusing on in demand programs, dynamic curriculum, general education skills and a strong commitment to being a leader in the field of career-focused education.

Cambridge offers professional and career-focused curricula designed to cultivate students' successful learning and the ability to apply knowledge, think critically, and communicate effectively. Through comprehensive academic programs, innovative and contemporary in content and mode of delivery, students are exposed to skills essential to become a professional in the healthcare and technology fields. Because academic programs are professional and career focused, Cambridge responds to local, regional, national and global employment needs and supports current workforce trends. Cambridge's mission guides its strategic planning and decision making at all levels of the institution.

## **Update to the Accreditation, Page 4 of the Catalog.**

The Diagnostic Medical Sonography program is accredited by the Commission on Accreditation of Allied Health Education Programs ([www.caahep.org](http://www.caahep.org)) upon the recommendation of JRCEDMS Committee on Accreditation.

## **Update to the Admission Section Page 8 of the Catalog**

Update to the Admission process for the Diagnostic Medical Sonography program ONLY!

In addition to these program requirements, the JRC-DMS requires the following courses be successfully completed prior to the beginning of the core curriculum of the Diagnostic Medical Sonography education program (Algebra, General college- level physics, Communication skills which includes English and Speech and Human Anatomy and Physiology). Further, ABHES requires these same aforementioned courses to be completed before core educational courses are presented.

## **Update to Transfer Credit Policy page 9**

### **Transfer of Credit**

Transfer of credit is always the decision of the individual college or university and is controlled by the receiving college. Accreditation does not guarantee transfer of credits. Applicants requesting credit earned for previous training at another post-secondary institution must submit sealed official transcripts to the Registrar with 30 days of starting a program. In order to be considered, the institution where the credit was previously earned must be accredited by an agency recognized by the United States Department of Education and/or the Commission for Higher Education Accreditation (CHEA).

CLEP is not accepted for Transfer Credit.

### **Advanced Standing/Proficiencies**

The College does not award credit for Advanced Standing, nor does the College permit students to proficiency out of courses.

Transfer of credit from prior education must meet the following requirements:

College course must be completed within 20 years of admission to Cambridge College with a minimum grade of a C or higher.

The following courses require a grade of a B or higher for transferability:

- Anatomy & Physiology I
- Anatomy & Physiology I Lab
- Anatomy & Physiology II
- Anatomy & Physiology II Lab

- College Algebra

Any student wishing to submit transcripts from a foreign country for consideration of admission is required to provide a translation and evaluation by an approved organization recognized within the Department of Education.

## **Update to Programs Page 13 of the Institutional Catalog**

### **Phlebotomy Technician**

Diploma program 11 weeks/220 clock hours Method of Delivery: Residential

**PROGRAM DESCRIPTION/ PROGRAM OBJECTIVE** The program objective is to provide students with career training for employment as basic Phlebotomists in a physician's office, hospital, outpatient center, laboratory, or other healthcare facility. Students will practice Phlebotomy procedures on a training arm.

At the completion of the Phlebotomy Technician program, a student is prepared to enter the work force as an entry level Phlebotomy Technician. The National Phlebotomy Technician certification examination through NCCT may be taken (not required by the state) when the applicable number of venipuncture's and capillary sticks have been obtained and documented by an employer

## **Update to the Catalog – Programs Page 13 of the Institutional Catalog**

### **Practical Nursing program**

1350 Clock Hours

54 Weeks Day

85 Weeks Eve

Blended

### **Medical Assistant program**

900 Clock Hours

36 Clock Hours

Blended

### **Nursing Assistant**

120 clock Hours

5 Weeks

Blended

## **Radiologic Technology – Update to Prerequisites**

RTE1030 Radiographic Physics 4 Credits 60 clock Hours

PREREQUISITES: MAC 1105, BSC 1085, BSC 1085L

RTE1205 Radiographic Procedures IV 2 Credits 30 Clock Hours

PREREQUISITES: RTE 1204 & RTE 1204L, RTE 1025, BSC 1086 & BSC1086L

RTE2015 Radiation Biology and Protection

PREREQUISITES: RTE 1026

RTE 2500 - Senior Registry Review 3 Credits 45 Clock Hours

This Course provides a review of basic knowledge from previous courses and helps the student prepare for national certification examination for radiographers. Topics include: principles of radiographic exposure, radiographic procedures, anatomy, physiology, pathology, terminology, radiographic equipment, radiation protection, and patient care techniques.

Prerequisites: RTE 1206, RTE 1206L, RTE2015 & RTE 1026

## **Patient Care Technician**

Diploma Program

Method of Delivery: Blended

36 weeks / 720 clock hours

Program Objective:

The program is a 720 clock program to prepare students for employment as entry level crossed-trained Patient Care Technicians.

Program Description:

This program offers a broad foundation of knowledge and skills expanding the traditional role of the nursing assistant for acute and long term care settings. A Patient Care Technician is strongly encouraged to become a Certified Nursing Assistant to practice as a PCT. Graduates are eligible to take the Certified Patient Care Technician exam through NHA (not a state requirement).

Phlebotomy procedures are practiced on training arms and human venipunctures and capillary sticks are performed in the classroom. The Certified Phlebotomy Technician examination may be taken through NHA (not a state requirement) when the applicable number of human venipunctures and capillary sticks have been obtained and documented by an instructor or employer. All courses must be satisfactorily completed in order to graduate from the Patient Care Technician Program. Students that have completed the Nursing Assistant portion of the PCT program are eligible to make application to take the Florida Certified Nursing Assistant (CNA) Examination through Prometrics.

A criminal record may keep a student from obtaining a license or certification in some medical programs. Therefore, a criminal record may affect the student's ability to gain employment in the field of training.

### Program Outline

Required Courses	Clock Hours
HC102 Health Care and Body Systems	100
NA101 Articulated Nursing Assistant	80
NA102 Nursing Assistant Externship (prerequisite-NA101)	40
PC101 Home Health Aide	75
PC102 Patient Care Assistant	65
PH101 Phlebotomy	120
PC103 Electrocardiograph Aide	80
PC104 Allied Health Assistant	80
PC105 Patient Care Technician	80
Total Hours	720

### Course Descriptions

HC101 Health Care and Body Systems 100 clock hours

This course describes health care delivery system and health occupations communication interpersonal skills, computer literacy, infection control and recognition and response to emergency situations. This course also includes safety and security, ethical and legal issues, employability skills, basic math and science, and wellness and disease concept. CPR, HIV/AIDS, Domestic Violence and OSHA are also included.

Prerequisites: None

NA101 Articulated Nursing Assistant 80 clock hours

This course instructs students in the role of the nursing assistant, personal care skills, and basic nursing skills as related to extended care facilities and hospital care.

Prerequisites: None

NA102 Nursing Assistant Externship 40 Clock Hours

In this course students will practice skills learned in NA101 in a clinical acute care setting. Students will engage in the role of the nursing assistant, personal care skills, and basic nursing skills as related to extended care facilities and hospital care.

Prerequisites: NA101

PC101 Home Health Aide 75 clock hours

This course includes homemaking services, shopping and meal preparation, stages of human growth and development, safety and infection control, body systems and common disorders relative to home health care. In

addition, this course teaches home health care for maternal and infant needs as well as care for the client with special needs.

Prerequisites: None

PC102 Patient Care Assistant 65 clock hours

This course instructs students in nursing assistant skills for pediatric patients, maternal and infant care and adult surgical patients related to the hospital setting.

Prerequisites: None

PH101 Phlebotomy 120 clock hours

This course includes an introduction to phlebotomy, equipment, safety, and specimen collection techniques. The student receives instruction in anatomy, infection control, special procedures and documenting competency skills.

Prerequisites: None

PC103 Electrocardiograph Aide 80 clock hours

This course includes basic principles of the cardiovascular system, the normal electrocardiograms, lead systems, identifying rhythms, performing the ECG, and quality assurance and continual quality improvement.

Prerequisites: None

PC104 Allied Health Assistant 80 clock hours

This course introduces the student to care of the patient with problems of the respiratory, muscular and skeletal systems. Included are restorative therapies and equipment used to enable the patient to regain optimal function.

Prerequisites: None

PC105 Patient Care Technician 80 clock hours

This course instructs the student in organizational and effective team skills, documentation, and record management. In addition, students will learn advanced special care skills, such as colostomy care, wound care, endotracheal tube and tracheotomy care.

Prerequisites: None

## **Pharmacy Technician**

870 Clock Hours – 36 weeks

Credential awarded – Certificate/Diploma

Method of Delivery: Blended

### **Program Description**

The pharmacy technician program allows students to assist pharmacists in providing medications and healthcare products to patients.

The program prepares students to successfully complete a national certification examination offered by the National Pharmacy Technician Certification Examination (CPhT), administered by the Pharmacy Technician Certification Board (PTCB). More states and employers are requiring certification as reliance on pharmacy technicians grows.

#### Program Objectives

- To develop a student's ability to perform proficiently as a pharmacy technician
- To develop a student's ability to think critically and communicate effectively
- To prepare students for entry-level employment as a pharmacy technician.

#### Admissions Requirements

Applicants must complete and submit an application for admissions that includes:

Admission interview

Personal statement

Admissions acknowledgement form

Proof of High School Graduation

• The requirements of High School Graduation (POG) consist of one of the following:

- Diploma from high school
- GED
- Home school documents required
- Official college transcript confirming associate, bachelors or master's degree
- Evaluated and translated Foreign High School

Transcripts (If Applicable)

Application fee of \$50.00/Once paid, paperwork for Drug Screen & Background Check

Acknowledgment to be completed.

Any student submitting proof of high school from a foreign country for consideration of admission is required to provide a translation and evaluation by an approved organization recognized within the Department of Education.

Any applicant who is under the age of 18 and applying for admissions to Cambridge College of Healthcare & Technology must acquire a parent or guardian's signature on any contractual papers (i.e., Enrollment Agreement), and must verify that they will be 18 years or older at the time they begin their clinical rotations.

The program prepares students to successfully complete a national certification examination offered by the National Pharmacy Technician Certification Examination (CPhT), administered by the Pharmacy Technician Certification Board (PTCB). More states and employers are requiring certification as reliance on pharmacy technicians grows.

This program is currently approved by the Accrediting Commission for Health Education Schools (ABHES).

### Course Breakdown

Course Number	Course Title	Clock Hours
PHT100	Introduction to Health Fundamentals	100 clock hours
PHT105	Anatomy & Physiology and Terminology	60 clock hours
PHT110	Math Fundamentals	20 clock hours
PHT115	Pharmacy Math	60 clock hours
PHT120	Inventory Provisions	30 clock hours
PHT125	Pharmacology	180 clock hours
PHT130	Duties of a Pharmacy Technician	30 clock hours
PHT135	Pharmacy Customer Service	15 clock hours
PHT140	Pharmacy Skills Lab	45 clock hours
PHT145	Computer Applications for the Pharmacy Technician	45 clock hours
PHT150	Certification Review	15 clock hours
PHT200	Externship	240 clock hours
Total		870 clock hours

### Course Descriptions

PHT100 Introduction to Health Fundamentals 100 clock hours

This course will exam the health care professionals and how they interact with patients. Professional organizations, OSHA standards, asepsis, and isolation techniques will be covered. CPR & first aid, law and ethics in medicine will be discussed.

Prerequisite: None

PHT105 Anatomy & Physiology and Terminology 60 clock hours

This course covers the basic framework of medicine through understanding of anatomy and physiology to include pathology, procedures, and medications involved in treatment. Medical terms are learned within the context of structures and functions of the body systems and the senses.

Prerequisite: None

PHT110 Math Fundamentals 20 clock hours

This course is a review of basic mathematical skills including whole numbers, fractions, decimals, proportions, ratios, and percentages. It is an introduction into higher math concepts.

Prerequisite: None

PHT115 Pharmacy Math 60 clock hours

This course emphasizes mathematical concepts for pharmaceutical and business-math calculations. Students will learn the practice the types of calculations required of pharmacy technicians in the pharmacy setting.

Prerequisite: PHT110

PHT120 Inventory Provisions 30 clock hours

This course covers procedures and systems for inventory management of medications, equipment and supplies, and devices in the pharmacy setting. Students will complete activities to learn and practice standard procedures and documentation requirements for purchasing, receiving, and monitoring inventory along with proper identification, storage, and disposal of medications.

Prerequisite: None

PHT125 Pharmacology 180 clock hours

The course covers the anatomy, physiology, pathology of the muscular skeletal, and nervous systems with the therapeutic effects of prescription and nonprescription medications as well as alternative therapies associated with these systems. Items covered to consist of drug interaction, dosages, indications, contraindications, and routes of administration.

Prerequisite: PHT110

PHT130 Duties of a Pharmacy Technician 30 clock hours

This course covers the tasks and responsibilities of a pharmacy technician as well as expectations for professionalism in the work environment. Types of pharmacy practices, health care team interactions, time and stress management, prescription related matters, insurance claims, and record-keeping will be discussed.

Prerequisite: None

PHT135 Pharmacy Customer Service 15 clock hours

This course will cover customer services practices that are expected of a pharmacy technician. How to convey a professional image, communication modes and strategies for various customer and health care team interactions, listening and speaking techniques, and cultural competency awareness.

Prerequisite: PHT130

PHT140 Pharmacy Skills Lab 45 clock hours

Hands on experience to develop a practice pharmacy technician skill in a simulated pharmacy environment. Topics include compounding procedures to preparing and dispensing various forms of medications according to industry standards. Infection control, medical errors and quality assurance will be discussed.

Prerequisite: PHT125

PHT145 Computer Applications for the Pharmacy Technician 45 clock hours

This course will demonstrate hands on experience with general understanding of computers. Hardware, software and the use of the internet will be covered.

Prerequisite: None

PHT150 Certification Review 15 clock hours

This course will cover the required elements to take the national certification exam.

Prerequisite: All Courses

PHT200 Externship

240 clock hours

This course provides students with opportunities to apply professional skills learned in the classroom.

Prerequisite: All courses

## **Radiation Therapy Program**

2175 Hours

89 Credits

90 weeks

Credential Awarded: Associate of Science Degree

Type of Instructional Delivery: Blended

### **PROGRAM DESCRIPTION**

The Radiation Therapy Program is 90 weeks in length. It is designed to provide a well-planned didactic and clinical education experience to enable students to become competent, entry-level radiation therapists upon graduation.

### **PROGRAM OBJECTIVES**

The curriculum has been developed in accordance with the guidelines established by the American Society of Radiologic Technologists (ASRT). The clinical competency requirements have been developed in accordance with ARRT (American Registry of Radiologic Technologists) guidelines.

### **PROGRAM OUTLINE**

Course Code	Course Description	Credits
BSC 1085	Anatomy & Physiology I	3
HSC1000	Introduction to Health science	3
BSC 1085L	Anatomy & Physiology I Lab	1
BSC 1086	Anatomy & Physiology II	3
BSC 1086L	Anatomy & Physiology II Lab	1
ENC 1101	English Composition	3
PSY 1012	Introduction to Psychology	3
SPC 1016	Fundamentals of Speech	3
MAC 1105	College Algebra	3
MEA 1239	Medical Terminology	2
RAD 1006A	Clinical Externship I A	5
RAD 1007A	Clinical Externship II A	5
RAD 2007A	Clinical Externship III A	8

RAD 2008A	Clinical Externship IV A	8
RAD 1001A	Introduction to Clinical Radiation Therapy & Operations	4
RAD 1015A	Orientation to Radiation Therapy & Patient Care	3
RAD 1003A	Radiation Therapy Physics I	4
RAD 1004A	Radiation Therapy Physics II & Quality Management	4
RAD 1025A	Radiation Biology & Protection	4
RAD 1009A	Principles & Practice of Radiation Therapy I	4
RAD 1010A	Principles & Practice of Radiation Therapy II	3
RAD 2010A	Treatment Planning	4
RAD 2003A	Radiation Therapy Review Seminar	4
RAD 1018A	Sectional Anatomy & Imaging Principles	4
Total Credits		89

Course Descriptions:

ENC 1101 - English Composition

3 credits 45 clock hours

Students will be taught the proper use of grammar, punctuation and usage skills that are used in everyday language. The goals of effective writing will be covered as well as essay preparation. Students will take several mastery and editing tests as part of the course. Students will review readings for writing, to aid in essay preparation and completion.

Prerequisites: None

MAC 1105 - College Algebra

3 Credits 45 clock hours

Students in this course will explore college algebra through a detailed examination of practical applications. Students will calculate algebraic problems with linear equations, exponential functions, polynomials, factors and rational expressions. Students will solve problems using graphs, slopes, inequalities, linear equations, roots, radicals and quadratic equations.

Prerequisites: None

MEA 1239 - Medical Terminology

2 credits 30 clock hours

This course will provide students with instruction in how to decipher useful medical terminology into everyday language. Students analyze and learn prefixes and suffixes, spelling use and correct pronunciation. Medical abbreviations and symbols are included.

Prerequisites: None

PSY 1012 - Introduction to Psychology

3 credits 45 clock hours

This course offers students the basic principles of human behavior. Students will discuss challenges, responsibilities, problems and satisfaction of being a health care provider and relate this to the theories of human behavior and personality development.

Prerequisites: None

SPC 1016 - Fundamentals of Speech

3 credits 45 clock hours

Students will learn the foundations of communication including public presentations and interviewing skills.

Emphasis will be placed on motivational speaking.

Prerequisites: None

BSC 1085 - Anatomy & Physiology I

3 credits 45 clock hours

This course will offer students the opportunity to learn about the structure and function of the human body. The concepts of cells, tissues, organs and systems are presented to form the framework for a comprehensive study of anatomic structures and basic functions of each body system. In addition, the concepts of biochemistry will be discussed. Also provided will be the concepts of structural anatomy as students analyze the complex functions of each system.

Prerequisites: None

BSC 1085L - Anatomy & Physiology I Lab

1 credit 30 clock hours

Students in this course will explore the human body as a whole, its levels or organization, the terms used in describing body structure and directional terms, homeostatic mechanisms, the relationship of structure and function and how they relate to each other and homeostasis as directed by each body system involved. Anatomy and Physiology I will focus on the cells, cell metabolism, tissues and membranes, integumentary system and body temperature, skeletal system, muscular system, nervous system tissue and brain, nervous system spinal cord & peripheral nerves, autonomic nervous system and endocrine system.

Prerequisites: None

BSC 1086 - Anatomy & Physiology II

3 credits 45 clock hours

This course is a continuation of BSC 1085 lecture. Students will continue to will explore the human body as a whole, its levels or organization, the terms used in describing body structure and directional terms, homeostatic mechanisms, the relationship of structure and function and how they relate to each other and homeostasis as directed by each body system involved.

Prerequisites: BSC 1085

BSC 1086L- Anatomy & Physiology II Lab

1 credit 30 clock hours

Students will explore the structure and function of tissues and organs in a laboratory setting. This will include visiting the office of the Medical Examiner, Video web cast of dissections and autopsies.

HSC1000 - Introduction to Health Science

3 credits 45 clock hours

Students will examine the following topics: The healthcare professions and teams, interactions between and reactions of patients in altered physical &/or mental states including gerontology and diverse cultures, professionalism and professional organizations, vital signs, OSHA standards, asepsis and isolation techniques including universal precautions, ethics and legal concerns of the healthcare provider, lifting/moving/body

mechanics, patient and environmental emergency assessment and response, and Basic Cardiac Life Support (BCLS). The student will possess the aptitude to comprehend and use information in both written and oral formats.

Prerequisites: None

**RAD 1001A - Introduction to Clinical Radiation Therapy & Operations 4 credits 60 clock hours**

This course will introduce the students to the clinical setting. Personnel and responsibilities will be discussed with regard to each person involved with patients and their care. Equipment utilized and safe operation of equipment will be discussed. The proper and ethical behaviors of students and personnel in the clinical setting will be demonstrated via role play and discussion groups. The psychological aspects of patient reactions and fears will be discussed with regard to the waiting room, treatment room and personnel they will meet. This course will prepare students for clinical externships beginning the second semester of the program. This course also focuses on various Radiation Therapy operational issues. Continued quality improvement issues are discussed and evaluated and assessment techniques will be emphasized. Human resource regulations impacting the radiation therapist will be examined. Accreditation agencies and the radiation therapist's role in the accreditation process will be discussed. Billing and reimbursement issues pertinent to the radiation therapy department will be presented. Basic Cardiac Life Support for the Health Care Provider will also be provided involving training in risk factors of heart disease, recognition of a heart attack and choking victim. Activating the emergency medical services system and managing the unconscious victim with rescue breathing using airway adjuncts/ventilation devices along with the automated external defibrillator educational course. Adult, child and infant cardio pulmonary resuscitation and obstructed airway instruction for the one-rescuer and two34 rescuer team will be covered.

Prerequisites: None

**RAD 1015A – Orientation to Radiation Therapy & Patient Care 3 credits 45 clock hours**

The student will be provided with concepts in assessment and evaluation of the patient for delivery of radiation therapy. Psychological and physical needs and factors affecting treatment outcome will be presented and examined. Routine and emergency care procedures will be presented. An overview of the foundations in radiation therapy and the therapist's role in the health care delivery system will be reviewed. The principles, practices, and policies of Cambridge College of Healthcare & Technology, health care organizations, principles of radiation and health safety and professional responsibilities of the radiation therapist will be covered in this course. Problem-solving will be utilized along with critical thinking skills in discussion of the source of law, causes of action and litigation processes related to the professional practice of radiation therapy and the ethical standards and standard of law will be compared and examined.

Prerequisites: BSC 1085, BSC 1085L, MEA 1239, ENC 1101, BSC 1086, BSC 1086L

**RAD 1003A - Radiation Therapy Physics I**

**4 credits 60 clock hours**

This course provides students with an understanding of the concepts of general physics. It then develops into an understanding of radiations used in the clinical setting. Fundamental physical units, measurements, principles, atomic structure and types of radiation are emphasized. Also presented are the fundamentals of x-ray generating equipment, x-ray production and its interactions with matter.

Prerequisites: RAD 1000A & RAD 1001A

**RAD 1004A - Radiation Therapy Physics II & Quality Management 4 credits 60 clock hours**

This course is a continuation of RAD 1003A and is designed to review and expand concepts and theories in the radiation physics I course. Detailed analysis of the structure of matter, properties of radiation, nuclear transformations, x-ray production and interactions of ionizing radiations are emphasized. The student is also presented with treatment units used in external beam radiation therapy, measurement and quality of ionizing radiation produced, absorbed dose measurement, dose distribution and scatter analysis. This course is also designed to focus on the evolution of quality management programs and continuing quality improvement in radiation oncology. Students will examine the need for quality assurance checks, quality assurance of the clinical aspects and chart checks, film checks, the various types of evaluations and tests performed on simulators, megavoltage therapy equipment and therapy planning units, the role of radiation therapists in quality management programs. Legal and regulatory implications for maintaining appropriate quality management guidelines as well as the role of computers and information systems are discussed as they serve within the radiation oncology department. As part of this course, students will be required to document competency in performing daily treatment machine checks as part of their clinical competency requirements.

Prerequisites: MAC 1105, RAD 1005A RAD 1003A, RAD 1008A

**RAD 1025A - Radiation Biology & Protection 4 credits 60 clock hours**

This course will present the basic principles of radiation protection and safety for the radiation therapist. Radiation health and safety requirements of federal and state regulatory agencies, accreditation agencies and health care organizations are included. The specific responsibilities of the radiation therapist are discussed, examined, performed and evaluated. The student will also be presented with basic concepts and principles of radiation biology; the interactions of radiation with cells, tissues and the body as whole and resultant biophysical events will be presented. Discussion of the theories and principles of tolerance dose, time-dose relationships, fractionation schemes and the relationship to the clinical practice of radiation therapy will be discussed, examined and evaluated

Prerequisites: BSC 1085, BSC 1085L, BSC 1086, BSC 1086L, MEA 1239, RAD 1015A, RAD 1018A, ENC1101

**RAD 1018A - Sectional Anatomy & Principles of Imaging 4 credits 60 clock hours**

The student is introduced to a knowledge base in factors that govern and influence the production and recording of radiographic images for patient simulation, treatment planning, and treatment verification in radiation oncology. Radiation oncology imaging equipment and related devices will be emphasized. This course will also provide the student the opportunity to study normal anatomical structures via a variety of imaging formats. Basic anatomical relationships will be compared using topographical and cross-sectional images.

Prerequisites: BSC 1085, BSC 1085L, MEA 1239, BSC 1086, BSC 1086L.

**RAD 1009A - Principles and Practice of Radiation Therapy I 4 credits 60 clock hours**

In this course the student is provided with an overview of cancer and the specialty of radiation therapy. The medical, biological and pathological aspect as well as the physical and technical aspects will be discussed. The role and responsibility of the radiation therapist, the treatment prescription, the documentation of treatment parameters and delivery will also be discussed.

Prerequisites: MEA 1239, RAD 1005A RAD 1003A, RAD 1008A.

RAD 1010A - Principles and Practice of Radiation Therapy II      3 credits 45 clock hours

This course is a continuation of RAD 1009A. The course is designed to examine and evaluate the management of neoplastic disease while promoting critical thinking skills and the basis of ethical clinical decision-making. The epidemiology, etiology, detection, diagnosis, patient condition, treatment and prognosis of neoplastic disease will be presented for each organ and system. This will be discussed and evaluated in relationship to histology, anatomical site and patterns of spread. The radiation therapist's role in the management of neoplastic disease will also be examined and linked to the skills required to analyze complex issues and make informed decisions while appreciating the character of the profession.

Prerequisites: MEA 1239, RAD 1004A, RAD 1009A.

RAD 2010A - Treatment Planning      4 credits 60 clock hours

The content of this course is designed to establish factors that influence and govern clinical treatment planning of patient treatment. Encompassed are isodose distributions, patient contouring, and radiobiologic considerations. Students will be required to make dosimetric calculations utilizing compensating filters, blocking considerations with various field angles and other treatment accessories.

Prerequisites: MAC 1105, RAD 1018A, RAD 1003A, RAD 1004A, RAD 1006A, RAD 1007A.

RAD 2003A - Radiation Therapy Review Seminar      4 credits 60 clock hours

Course is designed to synthesize previous coursework and integrate didactic and clinical concepts. Various Instructors will present interactive lectures, reviews and comprehensive exams based on all course topics and materials covered throughout the two year program. Instructors will emphasize the application process, completion of the programmatic requirements and practice computerized simulations of the registry exam based on the outline in the Radiation Therapy Certification Handbook

Prerequisites: ENC 1101, PSY 1012, SPC 1016, MAC 1105, MEA 1239, BSC 1085, BSC 1085L, BSC 1086, BSC 1086L, RAD 1006A, RAD 1007A, RAD 2007A, RAD 1001A, RAD 1015A, RAD 1003A, RAD 1004A, RAD 1025A, RAD 1009A, RAD 1010A, RAD 2010A, RAD 1018A.

RAD 1006A - Clinical Externship I A      5 credits 240 clock hours

The student will rotate through nursing, simulation and treatment. The student will participate in routine procedures under the direct supervision of a registered radiation therapist. The student will develop competence in basic patient care skills as well as basic simulation and treatment setups.

Prerequisites: BSC 1085, BSC 1085L, MEA 1239, RAD 1000A, RAD 1001A.

RAD 1007A - Clinical Externship II A      5 credits 240 clock hours

The student will rotate through nursing, simulation and treatment. The student will participate in routine procedures under the direct supervision of a registered radiation therapist. The student will develop competence in basic patient care skills as well as basic simulation and treatment setups.

Prerequisites: RAD 1000A, RAD 1001A, RAD 1002A, RAD 1003A, RAD 1006A.

RAD 2007A - Clinical Externship III A      8 credits 360 clock hours

The student will be introduced to the general operations of a radiation oncology department including equipment used for simulation and treatment, patient flow, and roles and responsibilities of the healthcare team that comprises the staff.

Prerequisites: RAD 1000A, RAD 1001A, RAD 1002A, RAD 1003A, RAD 1005A, RAD 1006A, RAD 1007A.

RAD 2008A - Clinical Externship IV A

8 credits 360 clock hours

The student will be introduced to the general operations of a radiation oncology department including equipment used for simulation and treatment, patient flow, and roles and responsibilities of the healthcare team that comprises the staff. The student will develop competence in basic patient care skills, as well as, dosimetry, simulation and treatment setups

Prerequisites: RAD 1000A, RAD 1001A, RAD 1002A, RAD 1003A, RAD 1004A, RAD 1005A, RAD 1006A, RAD 1007A, RAD 1008A, RAD 1009A, RAD 2007A.

## **Medical Laboratory Technician**

66 Semester Credits

1525 Clock Hours

75 Weeks

Credential awarded – Associate of Science

Method of Delivery: Blended

### **Program Objectives**

- To develop a student's ability to perform proficiently on laboratory testing procedures
- To develop a student's ability to think critically and communicate effectively
- To prepare students for entry-level employment in clinical and reference laboratories or physicians' offices as a medical laboratory technician.

### **Program Goals**

- Students will acquire the knowledge and skill development to competently perform standardized laboratory test procedures
- Students will acquire critical thinking and problem solving skills to effectively practice in the profession
- Students will possess employable entry-level skills required for medical laboratory technicians.

The program prepares students to successfully complete national certification examinations offered by the American Society for Clinical Pathology (ASCP), American Medical Technologists (AMT), American Association of Bioanalysts (AAB) and state certification examinations (if applicable)

### **Course Descriptions**

ENC 1101 - English Composition 3 Credits 45 clock hours

Students will learn grammar, punctuation and usage skills that are useful in everyday language. The goals of effective writing will be covered as well as essay preparation. Students will take several mastery and editing tests as part of the course.

Prerequisites: None

HSC 1000 - Introduction to Health Science 3 Credits 45 clock hours

Students will examine the following topics: The healthcare professions and teams, interactions between and reactions of patients in altered physical &/or mental states including gerontology and diverse cultures, professionalism and professional organizations, vital signs, OSHA standards, asepsis and isolation techniques including universal precautions, ethics and legal concerns of the healthcare provider, lifting/moving/body mechanics, patient and environmental emergency assessment and response, and Basic Cardiac Life Support (BCLS). The student will possess the aptitude to comprehend and use information in both written and oral formats.

Prerequisites: None

MAC 1105 - College Algebra 3 Credits 45 clock hours

Students in this course will explore college algebra through a detailed examination of practical applications. Students will calculate algebraic problems with linear equations, exponents, polynomials, factors, and rational expressions. Student will solve problems using graphs, slopes, inequalities, linear equations, roots, radicals and quadratic equations.

Prerequisites: None

MEA 1239 - Medical Terminology 2 Credits 30 clock hours

This course will provide students with instruction in how to decipher useful medical terminology into everyday language. Students analyze and learn prefixes and suffixes, spelling use and correct pronunciation. Medical abbreviations and symbols are included.

Prerequisites: None

PSY 1012 - Introduction to Psychology 3 Credits 45 clock hours

In this course, students learn basic principles of human behavior. Challenges, responsibilities, problems and satisfactions of being a health care provider are discussed. Theories of human behavior and personality development are included.

Prerequisites: None

SPC 1016 - Fundamentals of Speech 3 Credits 45 clock hours

Students will learn the foundations of communications including public presentations and interviewing skills

Prerequisites: None

BSC 1085 - Anatomy & Physiology I 3 Credits 45 clock hours

Students in this course will explore the human body as a whole, its levels or organization, the terms used in describing body structure and directional terms, homeostatic mechanisms, the relationship of structure and function and how they relate to each other and homeostasis as directed by each body system involved. Anatomy and Physiology I will focus on the cells, cell metabolism, tissues and membranes, integumentary system and body temperature, skeletal system, muscular system, nervous system tissue and brain, nervous system spinal cord & peripheral nerves, autonomic nervous system and endocrine system.

Prerequisites: None

BSC 1085L - Anatomy & Physiology I Lab 1 Credit 30 clock hours

In an online delivery, students in this course will explore the human body as a whole, its levels or organization, the terms used in describing body structure and directional terms, homeostatic mechanisms, the relationship of structure and function and how they relate to each other and homeostasis as directed by each body system involved. Anatomy and Physiology I will focus on the cells, cell metabolism, tissues and membranes, integumentary system and body temperature, skeletal system, muscular system, nervous system tissue and brain, nervous system spinal cord & peripheral nerves, autonomic nervous system and endocrine system.

Prerequisites: None

BSC 1086 - Anatomy & Physiology II 3 Credits 45 clock hours

This course is a continuation of BSC 1085 lecture. Students will continue to will explore the human body as a whole, its levels or organization, the terms used in describing body structure and directional terms, homeostatic mechanisms, the relationship of structure and function and how they relate to each other and homeostasis as directed by each body system involved.

Prerequisites: BSC 1085

BSC 1086L - Anatomy & Physiology II Lab 1 Credit 30 clock hours

Students will explore the structure and function of tissues and organs in a laboratory setting. This will include visiting the office of the Medical Examiner, Video web cast of dissections and autopsies.

Prerequisites: BSC 1085, BSC 1085L & MEA 1239

PHL1000 – Phlebotomy/Specimen Collection 5 Credits 120 hours

This course includes an introduction to phlebotomy, equipment, safety, and specimen collection techniques. The student receives instruction in anatomy, infection control, special procedures and documenting competency skills.

Prerequisites: BSC1085, 1085L, 1086, 1086L, MLT1000

MLT1000 – Laboratory Orientation/Quality Assurance 4 credits 75 hours

This course introduces the students to the laboratory setting and the process of operating and maintaining equipment. The student will learn the various methods of assurance/quality control to consist of instrument calibration, reference ranges, proficiency testing, and other quality control procedures.

Prerequisite: None

MLT1005 – General Chemistry 3 credits 45 hours

Students will understand inorganic and organic chemical reactions and clinical methodologies performed using a chemistry analyzer.

Prerequisite: MLT1000

MLT1010 – Urinalysis 3 credits 75 hours

This course introduces students to a didactic study and performance of physical, chemical, and microscopic analysis of urine.

Prerequisite: MLT1000

MLT1015 – Hematology I 4 credits 90 hours

This course presents the didactic study of the origin and morphology of blood cells and the ability to interpret the clinical significance of test results. Topics include performance of phlebotomies, blood cell counts and coagulation procedures (both manually and automated). Prerequisite: MLT1000

MLT2005 – Hematology II 2 credits 45 hours

This course is a continuation of MLT1015.

Topics include a didactic study of diseases related to erythrocytes, leukocytes, thrombocytes and coagulation factors as well as the clinical significance of test results by providing additional opportunities for the performance of phlebotomies, blood cell counts and coagulation procedures.

Prerequisite: MLT1015

MLT1020 Immunohematology – 3 credits 75 hours

This course introduces the student to the study of blood group antigens and antibodies, the theory of genetics, the performance of basic blood bank procedures involving blood group and Rh typing, antibody screens and identification, and compatibility testing. The student will learn the didactic study of blood bank procedures involved in donor screening requirements, transfusion therapy, safety and quality controls, hemolytic disease of the newborn, blood component preparation, and the adverse effects of transfusions. Prerequisite: MLT1000

MLT1025 Microbiology – 3 credits 75 hours

This course is an introduction emphasizing the classification, physiology, and pathology of microorganisms. Students will explore the classification, physiology, and pathology of various microorganisms.

Prerequisite: MLT1000

MLT1030 – Immunology/Serology 2 credits 45 hours

This course examines theoretical concepts of the human immune system in health and disease and instructs students in serological procedures.

Prerequisite: MLT1000

MLT1035 – Clinical Chemistry 2 credits 45 hours

This course presents theoretical concepts, principles and the performance of procedures used for the measurement of carbohydrates, proteins, non-protein nitrogen-containing compounds, bilirubin and hemoglobin with emphasis on their relationships to various disease states, enzymes, lipids, electrolytes, trace elements, endocrinology, toxicology and therapeutic drug with emphasis on their relationships to various disease states

Prerequisite: MLT1000, MLT1005

#### CS1000 – Career Services/Credential Review

This course is designed to synthesize previous coursework concepts. The instructor will present interactive lectures, reviews and comprehensive exams based on all course topics and materials covered throughout the program. The instructor will emphasize the application process, completion of the requirements and practice computerized simulations of the exam. A career service session will take place to demonstrate proper resume writing, job interview techniques, continuing education and the importance to passing the certification exam.

Prerequisite: All course work

#### MLT2500 – Clinical Practicum 8 credits 400 hours

The student will be introduced into a clinical laboratory setting that is CLIA approved which will provide an opportunity for students to observe and participate in various laboratory procedures with emphasis on specific structure. All activities of students are under the supervision of a designated site clinical instructor or designee. Emphasis is placed on the demonstration of proficiency in required and elective competencies.

Prerequisite: All coursework

#### Course Outline

Course Code	Course Name	Credits	Hours
BCS 1085	Anatomy & Physiology I	3	45
BCS 1085L	Anatomy & Physiology I Lab	1	30
BCS 1086	Anatomy & Physiology II	3	45
BCS1086L	Anatomy & Physiology II Lab	1	30
ENC1101	English Composition	3	45
MAC1105	College Algebra	3	45
PSY1012	Introduction to Psychology	3	45
SPC1016	Fundamentals of Speech	3	45
HSC1000	Introduction to Health Science	3	45
MEA1239	Medical Terminology	2	30
PH101	Phlebotomy/Specimen Collection	5	120
MLT1000	Laboratory Orientation/Quality Assurance	4	75
MLT1005	General Chemistry	3	45
MLT1010	Urinalysis	3	75
MLT1015	Hematology I	4	90
MLT2005	Hematology II	2	45
MLT1020	Immunohematology	3	75
MLT1025	Microbiology	3	75
MLT1030	Immunology/Serology	2	45
MLT1035	Clinical Chemistry	2	45
CS1000	Career Services/Credential Review	2	30
MLT2500	Clinical Practicum	8	400

## Occupational Therapy Assistant

79 Semester Credits

1780 clock Hours (6 Semesters)

Blended

Associate of Science

### Program Description:

The Occupational Therapy Program is 90 weeks in length. It is designed to provide a well-planned didactic and clinical education experience to enable students to become competent, entry-level radiation therapists upon graduation. At the completion of the Occupational Therapy program, a student is prepared to enter the work force as an entry level Occupational Therapist.

### Program Objectives:

The Occupational Therapy program offers preparation in the knowledge and clinical skills for students to enter the Occupational Therapy field. Students in this program are conditioned to take the examination required for employment as an Occupational Therapy. Occupational Therapy experiences include theoretical instruction and clinical experience. Upon program completion, graduates are eligible to take credentialing examination.

### Course Outline

#### Course

Number	Course Title	Semester Credits	Clock Hours
BCS 1085	Anatomy & Physiology I	3	45
BCS 1085L	Anatomy & Physiology I Lab	1	30
BCS 1086	Anatomy & Physiology II	3	45
BCS1086L	Anatomy & Physiology II Lab	1	30
ENC 1101	English Composition	3	45
HSC 1000	Introduction to Health Science	3	45
MAC 1105	College Algebra	3	45
MEA 1239	Medical Terminology	2	30
PSY 1012	Introduction to Psychology	3	45
SPC 1016	Fundamentals of Speech	3	45
OTA 102	Introduction to Occupational Therapy	3	45
OTA 130	Occupational Analysis	2	30
OTA 108	Growth & Development	3	45
OTA 115	Principles of OT in Mental Health	3	60
OTA 125	Kinesiology	3	45
OTA 110	Fundamentals of Occupational Therapy	2	30
OTA 206	Human Occupations I	4	75

OTA 215	Principles of OT in Physical Health	4	60
OTA 220	Clinical I	2	90
OTA 209	Human Occupations II	3	60
OTA 230	Administrative Procedures	2	30
OTA 245	Pediatric Practice for the OTA	4	75
OTA 250	Specific Populations for the OTA	3	60
OTA 226	Seminar Strategies	2	30
OTA 221	Clinical II	7	320
OTA 222	Clinical III	7	320
Total Program		79	1780

### Course Descriptions

OTA 102 Introduction to Occupational Therapy 3 45

This course provides the student with an introduction to occupational therapy, including the various types of practice settings, client populations roles, and the process. The foundation of occupational therapy as well as its history, ethics, standards, and values will be discussed. A variety of resources will be introduced including the standards of practice framework and the process.

Prerequisite: None

OTA 130 Occupational Analysis 2 30

This course introduces the student to the concepts of task, activity and performance analysis. Students will learn the basics of grading and adapting tools, materials, and the environment in which they will apply the subsequent courses in order to develop the occupational performance of various populations. Students will learn to consider the domains of the Occupational Therapy Practice Framework.

Prerequisite: A&P I&II, PSY1011 Psychology

OTA108 Growth and Development 3 45

Growth and Development discussion as it occurs across the life span in physical, psychological, and cognitive domains. Emphasis will be placed on the relationship of development, health, and wellness to occupational performance in all stages of life. Multicultural discussion to include impact on environmental, sociological, socioeconomic, and other diversity factors on human development.

Prerequisite: A&P I&II, PSY1011 Psychology

OTA115 Principles of OT in Mental Health 3 60

In this course the student will focus on the biological/psychological/social models of mental health practice, common diagnoses, and traditional and emerging practice settings. Students will be introduced to approaches and modalities commonly used in mental health settings and their integration with occupational therapy practice. The

course will cover the use of groups, selected assessments and other occupational performance-based interventions. A focus will be on performance skills, which include emotion regulation and cognition.

Prerequisite: A&P I&II, PSY1011 Psychology

OTA125 Kinesiology 3 45

This course engages students with principles of movement as it supports occupation. Student will review key concepts of A&P and apply these to biomechanical functions. Students will gain an appreciation for the structures of the body and basic physics concepts that allow functional mobility and activity. Students will apply kinesiology concepts to manual muscle testing, range of motion assessment and analysis of movement.

Prerequisite: A&P I&II, PSY1011 Psychology

OTA110 Fundamentals of Occupational Therapy 2 30

This course provides an integration of the theoretical foundations of the profession with practice. Concepts that guide clinical reasoning in practice will be interwoven with the domain and process of occupational therapy. Students will begin to relate frames of reference to client population and practice settings, and to use clinical reasoning effectively within the guidelines of roles, ethics, and scope of practice.

Prerequisite: A&P I&II, PSY1011 Psychology

OTA206 Human Occupations I 4 75

Students will learn treatment interventions commonly used in occupational therapy practice with an emphasis on occupation as an intervention technique as well as an outcome of treatment. Activities preparatory to participation in occupation are also included. Techniques addressed are training in ADLs, IADLs, transfer and mobility, use of adaptive equipment, neuromuscular function, and sensory perception as needed to address occupational needs.

Prerequisite: A&P I&II, PSY1011 Psychology

OTA215 Principles of OT in Physical Health 4 60

This course examines the biological/psychological/social models of physical health and wellness, focusing on the common diagnoses and pathologies most often encountered in occupational therapy practice. Also introduced are examples of assessments used for various diagnoses and pathologies, especially those of the musculoskeletal and cardiopulmonary systems. Students will be introduced to tools and interventions commonly used in physical health and emerging practice settings and their integration with OT practice. Students will explore occupational therapy treatment and other occupational performance-based interventions within the scope, roles frames of reference, and practice guidelines related to physical health and wellness. A focus will be on the performance skills that include motor and praxis and sensory-perceptual.

Prerequisite: A&P I&II, PSY1011 Psychology

OTA220 Clinical I 2 90

This course provides the students the opportunity to recognize the use of models of practice and skills in a practice setting under the supervision of qualified and credential practitioner.

Prerequisite: A&P I&II, PSY1011 Psychology

OTA209 Human Occupations II 3 60

This course is the continuation of Human Occupations I with a focus on aspects of the domain of occupational therapy. Students will analyze the client's occupational therapy needs, synthesize occupation based interventions, and begin to critique their application of occupational therapy concepts. Students will exam the basic principles of physical agent modalities (PAMs) and will participate in hand's-on scenarios simulating those situations likely to be encountered during the clinical rotation and in the practice.

Prerequisite: A&P I&II, PSY1011 Psychology

OTA230 Administrative Procedures 2 30

This course introduces students to administrative procedures in the day to day practice and prepares the student for program management. Students will participate in program development and activities and analysis of the professional literature and promotion of the profession. The student will examine the management function versus the leadership skills within the practice.

Prerequisite: A&P I&II, PSY1011 Psychology

OTA245 Pediatric Practice for the OTA 4 75

The students in this course will examine limitations and obstacles to occupational engagement for people from birth through age 21. Students will examine the role of the occupational therapy assistant in pediatric settings and the functions of OT in the field of pediatrics. Students will explore common disabilities and diagnoses and their implications for treatment in areas of occupation in traditional, community-based, and emerging practice settings. Students will learn treatment interventions commonly used by the OTA in a pediatric practice. Students will synthesize occupation-based mental and physical health concepts related to occupational performance interventions with the pediatric population.

Prerequisite: A&P I&II, PSY1011 Psychology

OTA250 Specific Population for the OTA 3 60

Students in this course will synthesize occupation based mental and physical health concepts as applied to commonly used occupational performance interventions with neurological, bariatric, geriatric, and emerging populations. In addition to exploring treatment in traditional practice settings, students will generalize their knowledge, skills, and abilities to community-based settings and emerging practice settings. An emphasis will be placed on interacting with and teaching caregivers and family members

Prerequisite: A&P I&II, PSY1011 Psychology

OTA226 Seminar Strategies 2 30

This course prepares students for fieldwork and practice by examining professional development strengths and needs and formulating a plan for advocating for oneself and the profession. To accomplish this the student will explore supervisory needs, set goals for fieldwork success, and examine effective job search strategies. In addition, students will review and prepare for the National Board for Certification in Occupational Therapy to a Certified Occupational Therapy Assistant (COTA) exam.

Prerequisite: All Core classes

OTA221 Clinical II 7 320

This course provides the student with the opportunity to apply learned models of practice and occupational therapy skills in a practice setting under the supervision of a qualified and credentialed occupational therapy practitioner.

Prerequisite: All Prior Courses

OTA222 Clinical III 7 320

This course is a continuation of Clinical II giving the student the opportunity to apply learned models of practice and occupational therapy skills in a practice setting under the supervision of a qualified and credentialed occupational therapy practitioner.

Prerequisite: All Prior Courses

**NOTE\***

To enter the profession, one must obtain an Associate’s Degree from a program accredited by the Accreditation Council for Occupational Therapy Education (ACOTE). If not included in the program of study, one must complete a clinical practicum of at least sixteen weeks. With a degree and practicum completed, candidates must pass the COTA exam and then apply for and receive state licensure.

## **Physical Therapy Assistant**

77 Semester Credits 1730 clock Hours (6 Semesters)

Associate of Science

Blended

**Program Description:**

The Physical Therapy Program is 90 weeks in length. It is designed to provide a well-planned didactic and clinical education experience to enable students to become competent, entry-level Physical Therapy Assistants upon graduation.

**Program Objectives:**

The Physical Therapy Assistant program offers preparation in the knowledge and clinical skills for students to enter the Physical Therapy Assistant field. Students in this program are conditioned to take the examination required for employment as a Physical Therapy Assistant. Physical Therapy Assistant experiences include theoretical instruction and clinical experience. Upon program completion, graduates are eligible to take credentialing examination.

### **Course Outline**

Course

Number	Course Title	Semester Credits	Clock Hours
BCS 1085	Anatomy & Physiology I	3	45
BCS 1085L	Anatomy & Physiology I Lab	1	30
BCS 1086	Anatomy & Physiology II	3	45

BCS1086L	Anatomy & Physiology II Lab	1	30
ENC 1101	English Composition	3	45
HSC 1000	Introduction to Health Science	3	45
MAC 1105	College Algebra	3	45
MEA 1239	Medical Terminology	2	30
PSY 1012	Introduction to Psychology	3	45
SPC 1016	Fundamentals of Speech	3	45
PTA110	Introduction to Physical Therapy	3	45
PTA103	PTA Techniques	3	60
PTA104	Fundamentals of Disease	3	45
PTA105	Growth & Development	4	60
PTA120	Introduction to Kinesiology	1	15
PTA200	Kinesiology	3	60
PTA201	Rehabilitation I	3	60
PTA205	Therapeutic Exercise I	4	75
PTA210	Clinical I	2	90
PTA207	Therapeutic Exercise II	3	60
PTA202	Rehabilitation II	3	60
PTA211	Clinical II	6	280
PTA204	Administrative Procedures	2	30
PTA208	Special Topics	4	75
PTA209	PTA Seminar	2	30
PTA212	Clinical III	6	280
Total Program		77	1730

#### Course Descriptions

PTA 110 Introduction to Physical Therapy 3 45

This course provides the student with an introduction to physical therapy profession from its early development to its present-day complexities. Course material emphasizes the role of the physical therapist assistant, general state-practice acts, scope of practice, types of practice settings, patient interactions, professional organizations, and the importance of lifelong professional growth and development. Lab topics address a range of basic patient care skills including infection control and patient positioning and draping.

Prerequisite: None

PTA103 PTA Techniques 3 60

This course introduces the student to the basic principles of, physiological responses to, and safe and effective application of thermal agents, electromagnetic radiation, ultrasound, soft tissue mobilization, hydrotherapy, electrical stimulation, traction, and compression.

Prerequisite: A&P I&II,

PTA104 Fundamentals of Disease 3 45

This class introduces basic information about common medical conditions. Diseases of the cardiovascular, respiratory, nervous, endocrine, integumentary, immune, lymphatic, sensory, musculoskeletal, urogenital, and gastrointestinal systems are covered. Emphasis is placed on those conditions that could potentially affect the mobility of the person or the outcome of physical therapy treatment. Consideration is given to the diagnosis, treatment, and prognosis for various diseases. Through the study of specific diseases, the student will become familiar with doing research, reading professional literature, and using critical thinking in relation to how disease affects physical therapy treatments.

Prerequisite: A&P I&II, PSY1011

PTA105 Growth and Development 4 60

This course explores several theories that examine the relationship of structure and function with the development of movement skills through the life span. Students will also study changes that occur to major body systems during various phases of growth and development and how these changes affect health and wellness

Prerequisite: A&P I&II,

PTA120 Introduction to Kinesiology 1 15

This course introduces students to the principles of kinesiology with a emphasis on biomechanical function and movement patterns, including osteokinematics, arthrokinematics, normal gait cycle, and optimal posture

Prerequisite: A&P I&II

PTA200 Kinesiology 3 60

This course expands on the knowledge development in the introduction to kinesiology course with principles on biomechanical function. Students apply concepts of resistance, forces, and positioning to specific muscles and movement patterns by study anatomical models of joints and muscles and other visual aids to enhance understanding of anatomy and movement. Lab activities focus on skills development and provide a range of competency based practice opportunities along with analysis of gait and normal and abnormal biomechanical movement patterns

Prerequisite: A&P I&II,

PTA 201 Rehabilitation I 3 60

Basic rehabilitation procedures and technique are discussed in this course. Students participate in hands-on activities to develop and practice skills in bed mobility and transfer techniques, general safety and infection control procedures, basic wheelchair management, gait training with ambulation aides, and measurement of vital signs.

Prerequisite: A&P I&II

PTA205 Therapeutic Exercise I 4 75

This course explores the theoretical foundations for therapeutic exercise. Content address clinical indications for exercise as well as the basic principles of and physiological responses to therapeutic exercise protocols. Topics emphasize include special exercise considerations for the lower extremities and lumbopelvic regions.

Prerequisite: A&P I&II

PTA210 Clinical I	2	90
This course provides the students the opportunity to apply learned theories and skills in a clinical setting under direct supervision of a licensed physical therapist or licensed/certified physical therapist assistant.		
Prerequisite: A&P I&II		
PTO207 Therapeutic Exercise II	3	60
This course continues the presentation of theoretical foundations for therapeutic exercise, including basic principles of and physiological response to exercise. Topics discussed include clinical indications for therapeutic exercise involving the shoulder girdle, upper extremity, and cervical/thoracic regions as well as the cardiopulmonary systems		
Prerequisite: A&P I&II		
PTA202 Rehabilitation II	3	60
This course explores the field of physical medicine and rehabilitation with a focus on the adult neurological patient. Content progresses from an overview of neurological assessment and treatment to the more common clinical syndromes relate to motor and postural control. Students participate in hands-on activities to develop and practice relevant skills for this patient population.		
Prerequisite: A&P I&II		
PTA207 Clinical II	6	280
This course is a continuation of clinical I and provides students with the opportunity to apply learned theories and skills in a clinical setting under direct supervision of a licensed physical therapist or licensed/certified physical therapist assistant.		
Prerequisite: A&P I&II		
PTA204 Administrative Procedures	2	30
This course examines the components included in the administration of the physical therapy practice. Topics include physical therapy practice, medical records, ethics, law, delegation and supervision, health insurance, and preparation for the workplace.		
Prerequisite: A&P I&II		
PTA208 Special Topics	4	75
This course presents the theoretical foundations for treatment of some of the more specialized patient population/diagnoses seen in the physical therapy clinic. Topics include indication for physical therapy interventions as well as the basic principles of and physiological responses to therapeutic exercise protocols, with an emphasis on particular exercises and functional training considerations for these populations.		
Prerequisite: A&P I&II		
PTA209 Seminar	2	30

This course provides a comprehensive review of technical coursework and prepares the student for transition into the workforce as an entry level physical therapist assistant. Through development of personal comprehensive study plans and participating in mock exams and other activities, students prepare to take the National Physical Therapist Examination. Students examine employment opportunities and review policies and procedures for applying for state licensure in their current location and target employment markets.

Prerequisite: All Prior Courses

PTA212 Clinical III

6

280

This course is a continuation of Clinical II giving the student the opportunity to apply learned theories and skills in a clinical setting under director supervision of a qualified and credentialed physical therapist practitioner.

Prerequisite: All Prior Courses

The Federation of State Boards of Physical Therapy (FSBPT) administers the National Physical Therapy Examination (NPTE).

## **Update to DMS Program, Course Descriptions Page 15 of the Institutional Catalog**

HSC 1000 - Introduction to Health Science

3 Credits 45 clock hours

Students will examine the following topics: The healthcare professions and teams, interactions between and reactions of patients in altered physical &/or mental states including gerontology and diverse cultures, professionalism and professional organizations, vital signs, OSHA standards, asepsis and isolation techniques including universal precautions, ethics and legal concerns of the healthcare provider, lifting/moving/body mechanics, patient and environmental emergency assessment and response, and Basic Cardiac Life Support (BCLS). The student will possess the aptitude to comprehend and use information in both written and oral formats. Prerequisites: None

## **Update to Programs, Page 39 Distance Education of the Institutional Catalog**

The Medical Billing and Coding Diploma, Radiologic Sciences (BS), and RN to BSN programs have been Discontinued Effective April 1, 2020

### **Disclosure**

Students are required to provide their physical location at the time of enrollment by providing the information on the Admissions Application. Students are required to immediately notify the institution of a change to their physical location by notifying the Registrar in writing. Currently under the NC-SARA Reciprocity agreement, California is the only state that does not participate. If a student relocates to the state of California this will adversely impact the student's ability to complete their program.

## **Update to the Financial Assistance Section Page 48 of the Catalog**

Florida Schools – Effective August 1, 2019

In accordance with Title 38 US Code 3679 subsection (e), this school adopts the following additional provisions for any students using U.S. Department of Veterans Affairs (VA) Post 9/11 G.I. Bill® (Ch. 33) or Vocational Rehabilitation & Employment (Ch. 31) benefits, while payment to the institution is pending from the VA.

This school will not:

- Prevent the student's enrollment;
- Assess a late penalty fee to the student;
- Require the student to secure alternative or additional funding;
- Deny the student access to any resources (access to classes, libraries, or other institutional facilities) available to other students who have satisfied their tuition and fee bills to the institution.

However, to qualify for this provision, such students may be required to:

- Produce the VA Certificate of Eligibility (COE) by the first day of class;
- Provide a written request to be certified;
- Provide additional information needed to properly certify the enrollment as described in other institutional policies