

# Health Sciences

## General Information

HCC offers associate degrees in the following health sciences areas: Counseling and Human Services; Dental Hygiene; Diagnostic Medical Sonography Technology; Emergency Medical Services; Maternal and Child Services; Nuclear Medicine Technology; Nursing; Opticianry; Optical Management Technology; Radiation Therapy; Respiratory Care; Radiography and Sign Language Interpretation. In addition to the degree programs, the College offers college credit certificate programs in Emergency Medical Technician, Eye Care Technician, Ophthalmic Laboratory Technician, Paramedic, and Radiation Therapy Specialist, and Visual Assessment; an Applied Technology diploma in Family Health and Support Worker; and a Postsecondary Adult Vocational certificate in Dental Assisting. The college credit certificate programs are one-year programs for individuals who are pre-certified or licensed in a health science profession. Most health sciences and nursing programs are limited access programs with competitive application procedures because of the limited number of clinical placements the College has available for students to gain practical experience.

**Hillsborough Community College and its health science programs reserve the right to make changes in the regulations, offerings, requirements and any provision announced in this catalog at any time, as circumstances require.**

**For more information about health science program admissions, please call the Student Services Office, Dale Mabry Campus, at (813) 253-7364 or go to [www.hccfl.edu/depts/healthsci](http://www.hccfl.edu/depts/healthsci).**

## AS/AAS • Counseling and Human Services

### AS.HUS/AS.HUS.MCS/AAS.HUS/AAS.HUS.MCS (65 Credit Hours)

This program prepares the student to work in the fields of counseling, social work and rehabilitation. Counseling and human services practitioners may, under supervision, provide individual and group counseling, lead workshops, provide training in daily living skills, assist with vocational planning, organize group activities, provide case management services, and complete records and reports. Further, they may act as mediators between clients and service agencies, direct clients to appropriate community facilities, and represent their clients before local service providers and government agencies.

Counseling and human services professionals serve clients of all ages and backgrounds in hospitals, halfway houses, detoxification and drug treatment centers, mental health clinics, residential facilities, outpatient programs, nursing homes, adult and adolescent criminal justice facilities, adoption agencies and schools. The counseling and human service practitioner usually functions as a member of a treatment team comprised of professionals from many disciplines, in order to provide effective and comprehensive care for individuals in need.

The class work in this program includes courses in counseling theory and applied therapeutic techniques, crisis intervention, psychology, sociology, human development, group counseling, multicultural issues, professionalism and ethics.

Supervised internships in community facilities and programs are a major component of the program. Students learn to translate theory into actual practice under the guidance of highly trained and experienced faculty members and community professionals. This "hands-on" experience helps the graduate of this program to easily find employment in the profession.

The Counseling and Human Services program is primarily an evening program in order to accommodate students who are working during the day. The curriculum provides a strong foundation for securing employment and for pursuing advanced studies. Many of the graduates of the program continue their studies to earn their bachelors and masters degrees, often while employed in the profession.

The Counseling and Human Services program is nationally accredited by the Council for Standards in Human Service Education (CSHSE), PMB 703, 1050 Larrabee Avenue, Suite 104, Bellingham, WA 98225-7367, (360) 650-3531 or [www.cshse.org](http://www.cshse.org). It is the only nationally accredited Counseling and Human Services program in the state of Florida.

**NOTE:** All graduates of this AS degree program shall be granted admission into the Social Work baccalaureate degree program at St. Leo University.

**General Education Requirements for AS/AAS Counseling and Human Services, and****AS/AAS Maternal and Child Services**

BSC	1025	Nutrition and Drugs <b>and</b> .....	3 cr.
BSC	1025L	Nutrition and Drugs Laboratory <b>or</b> .....	1 cr.
BSC	1085	Human Anatomy and Physiology I, <b>and</b> .....	3 cr.
BSC	1085L	Human Anatomy and Physiology I Laboratory <b>or</b> .....	1 cr.
PCB	1730	Human Reproduction and Inheritance <b>and</b> .....	3 cr.
PCB	1730L	Human Reproduction and Inheritance Laboratory .....	1 cr.
ENC	1101	English Composition I.....	3 cr.
MGF	1119	Introductory Mathematics w/ Applications (non-transfer) <b>or</b> General Education Mathematics (transfer) .....	3 cr.
PSY	2012	General Psychology .....	3 cr.
SYG	2000	Introduction to Sociology .....	3 cr.
		Humanities General Education.....	3 cr.

**NOTE:** Selected either the Counseling and Human Services program required courses or the Maternal and Child Services program required courses to complete the AS or AAS degree.

**AS/AAS • Counseling and Human Services****AS.HUS/AAS.HUS****Program Required Courses**

CGS	1000	Introduction to Computers and Technology .....	3 cr.
GEY	1000	Issues of Aging .....	3 cr.
HUS	1001	Introduction to Human Services.....	3 cr.
HUS	1024	Abnormal Behavior: Etiology and Treatment.....	3 cr.
HUS	1200	Introduction to Group Process.....	3 cr.
HUS	1304	Interpersonal Skills in Human Services.....	3 cr.
HUS	1320	Crisis Intervention .....	3 cr.
HUS	1406	Etiology and Treatment of Substance Use Disorders .....	3 cr.
HUS	1540	Principles for Understanding and Working with Families .....	3 cr.
HUS	1550	Multicultural Perspective in Human Services .....	3 cr.
HUS	1820	Counseling and Human Services Practicum I .....	3 cr.
HUS	2008	Psychotherapy: Theory and Practice.....	4 cr.
HUS	2311	Strategies of Behavior Modification .....	3 cr.
HUS	2821	Counseling and Human Services Practicum II .....	3 cr.
HUS	2822	Counseling and Human Services Practicum III .....	3 cr.

**AS/AAS • Maternal and Child Services****AS.HUS.MCS/AAS.HUS.MCS**

This curriculum track provides students with the knowledge and skills required to be a human services professional and with the specialized training needed to help families and young children who are at risk for behavioral and psychological problems

**Program Required Courses**

CGS	1000	Introduction to Computers and Technology .....	3 cr.
HUS	1001	Introduction to Human Services.....	3 cr.
HUS	1024	Abnormal Behavior: Etiology and Treatment.....	3 cr.
HUS	1200	Introduction to Group Process.....	3 cr.
HUS	1304	Interpersonal Skills in Human Services.....	3 cr.
HUS	1406	Etiology and Treatment of Substance Use Disorders .....	3 cr.
HUS	1540	Principles for Understanding and Working w/Families.....	3 cr.
HUS	1550	Multicultural Perspective in Human Services .....	3 cr.
HUS	2008	Psychotherapy: Theory and Practice.....	4 cr.
HUS	2311	Strategies of Behavior Modification .....	3 cr.
HUS	2541	Working w/Families in the Early Childhood Period: Impact on Child Health, Development and Parenting .....	3 cr.
HUS	2542	Working w/Families in the Perinatal Period: Impact on Mother, Child and Family.....	3 cr.
HUS	2821	Human Services Practicum II.....	3 cr.
HUS	2822	Human Services Practicum III.....	3 cr.
HUS	2840	Field Placement in Maternal and Child Services.....	3 cr.

## ATD • Family Health and Support Worker

### ATD.HUS.FHSW (21 Credit Hours)

This 21-credit hour applied technology diploma is designed to provide training for non-degree, front-line community health workers (CHWs) who are currently employed as home visitors, family support workers, case managers, resource workers, peer counselors, or public health aides. The purpose of the program is to increase the occupational competence and job performance of CHWs who work in public health, child development, and family service agencies and who provide outreach and support services to childbearing families and their children.

#### Program Required Courses

HUS	1001	Introduction to Human Services.....	3 cr.
HUS	1304	Interpersonal Skills in Human Services.....	3 cr.
HUS	1540	Principles for Understanding and Working with Families .....	3 cr.
HUS	1550	Multicultural Perspective in Human Services.....	3 cr.
HUS	2541	Working w/Families in the Perinatal Period: Impact on Mother, Child and Family.....	3 cr.
HUS	2542	Working w/Families in the Early Childhood Period: Impact on Child Health, Development and Parenting .....	3 cr.
HUS	2840	Field Placement in Maternal and Child Services.....	3 cr.

**NOTE:** Students who complete the Family Health and Support Worker ATD are eligible to transfer the 21 credits to the AAS degree in Counseling and Human Services, Maternal and Child Services Option.

## AS • Dental Hygiene

### AS.DENT (88 Credit Hours)

The Dental Hygiene Program leads to an associate in science degree and provides students with the skills and knowledge needed to complete national and state or regional board examinations to become licensed dental hygienists. A dental hygienist is a vital member of the dental team who performs preventive dental procedures that include scaling, polishing and root planing procedures, exposing and processing radiographs, fluoride and dental sealant applications, and oral hygiene education. The graduate dental hygienist also becomes certified to perform expanded duties that are permitted by Florida Statute Title XXXII for dental auxiliaries. The dental hygiene curriculum includes five consecutive semesters of courses and requires a time commitment of 35-40 hours weekly. The program is offered on the Dale Mabry Campus only.

The Dental Hygiene program is accredited by the American Dental Association Commission on Dental Accreditation.

**NOTE:** Graduates must pass both the National Dental Hygiene Board examination and the Florida Dental Hygiene Board examination to become a registered dental hygienist.

#### Prerequisite Courses for Admission

BSC	1085	Human Anatomy and Physiology I.....	3 cr.
BSC	1085L	Human Anatomy and Physiology I Laboratory.....	1 cr.
ENC	1101	English Composition I.....	3 cr.
MAC	1105	College Algebra (transfer) or MGF 1106 Mathematics for Liberal Arts I (non-transfer)..	3 cr.
BSC	1086	Human Anatomy and Physiology II.....	3 cr.
BSC	1086L	Human Anatomy and Physiology II Laboratory .....	1 cr.
CHM	1032	Chemistry for Health Sciences .....	3 cr.
CHM	1032L	Chemistry for Health Sciences Laboratory .....	1 cr.
MCB	1000	Microbiology and Human Disease.....	3 cr.
MCB	1000L	Microbiology and Human Disease Laboratory .....	1 cr.

#### General Education Requirements

*PSY	2012	General Psychology .....	3 cr.
*SPC	1600	Public Speaking .....	3 cr.
*SYG	2000	Introduction to Sociology .....	3 cr.
		*Humanities General Education .....	3 cr.

**\*NOTE:** May be taken in advance or after admission to the dental hygiene program and must be completed with a grade of "C" or higher prior to graduation.

**Program Required Courses/Electives**

DEH	1002	Dental Hygiene Instrumentation.....	1 cr.
DEH	1002L	Dental Hygiene Instrumentation Laboratory.....	2 cr.
DEH	1130	Oral Embryology and Histology.....	1 cr.
DEH	1720	Preventive Dentistry.....	1 cr.
DEH	1800C	Clinical Dental Hygiene I.....	5 cr.
DEH	1811	Dental Ethics, Jurisprudence.....	1 cr.
DEH	1802C	Clinical Dental Hygiene II.....	3 cr.
DEH	2300	Pharmacology and Oral Medicine.....	2 cr.
DEH	2400	General and Oral Pathology.....	3 cr.
DEH	2602	Periodontology.....	2 cr.
DEH	2702	Community Dental Health.....	2 cr.
DEH	2702L	Community Dental Health Practicum.....	1 cr.
DEH	2804C	Clinical Dental Hygiene III.....	5 cr.
DEH	2806C	Clinical Dental Hygiene IV.....	6 cr.
DES	1020	Oral, Head and Neck Anatomy.....	2 cr.
DES	1020L	Oral, Head and Neck Anatomy Laboratory.....	1 cr.
DES	1100	Dental Materials.....	2 cr.
DES	1100L	Dental Materials Laboratory.....	1 cr.
DES	1200	Dental Radiology.....	2 cr.
DES	1200L	Dental Radiology Laboratory.....	1 cr.
DES	1801	Introduction to Clinical Procedures.....	2 cr.
DES	1801L	Introduction to Clinical Procedures Laboratory.....	1 cr.
DES	1830C	Expanded Duties for Dental Hygienists.....	2 cr.
DES	2502	Office Management.....	1 cr.
DES	2934	Advanced Clinical Procedures.....	1 cr.
HUN	2201**	Fundamentals of Human Nutrition.....	3 cr.

\*\*NOTE: HUN 2201 must be taken in the fall or spring term of the student's first year.

**AS/AAS • Diagnostic Medical Sonography Technology****AS.SON/AAS.SON (72 Credit Hours)**

Sonography is a medical specialty, which uses high-frequency sound waves to create images of the human body. These images are then analyzed, aiding in physician diagnosis. The sonographer is a skilled health care provider who provides imaging services under the supervision of a physician who is responsible for the use and interpretation of ultrasound procedures.

Upon completion of this program in abdomen, obstetrics and gynecology, and ultrasound physics and instrumentation, the graduate will be eligible to take the national registry examinations to become a certified sonographer. The examination is administered by the American Registry of Diagnostic Medical Sonographers.

The Diagnostic Medical Sonography program is accredited by the Joint Review Committee on Education in Diagnostic Medical Sonography in cooperation with the Commission of Allied Health Education Programs (CAAHEP), 2025 Woodlane Drive, St. Paul, MN 55125.

**NOTE:** All graduates of this AS degree program shall be granted admission into the Health Sciences baccalaureate degree program at the University of North Florida.

**Prerequisite Courses for Admission**

ENC	1101	English Composition I.....	3 cr.
BSC	1085	Anatomy and Physiology I.....	3 cr.
BSC	1085L	Anatomy and Physiology I Laboratory.....	1 cr.
PHY	1025	Fundamentals of Physics.....	3 cr.
PHY	1025L	Fundamentals of Physics Laboratory.....	1 cr.
		Mathematics General Education.....	3 cr.

**General Education Requirements**

PSY	2012	General Psychology.....	3 cr.
		Humanities General Education.....	3 cr.

**Program Required Courses**

BSC	1086	Human Anatomy and Physiology II.....	3 cr.
BSC	1086L	Human Anatomy and Physiology II Laboratory .....	1 cr.
RTE	1782	Pathology of Medical and Surgical Diseases .....	3 cr.
SON	1000	Basic Sonography .....	3 cr.
SON	1053	Sonographic Imaging of Medical/ Surgical Diseases.....	1 cr.
SON	1100	Sonographic Scanning Protocol I.....	1 cr.
SON	1101	Sonographic Scanning Protocol II .....	1 cr.
SON	1210	Introduction to Sonographic Physics and Instrumentation.....	3 cr.
SON	1311	Introduction to Sonographic Cross Sectional Anatomy I .....	1 cr.
SON	1312	Introduction to Sonographic Cross Sectional Anatomy II .....	1 cr.
SON	1313	Introduction to Cross Sectional Anatomy III.....	1 cr.
SON	1804C	Introduction to Practicum I .....	2 cr.
SON	1840	Introduction to Practicum II.....	1 cr.
SON	1850	Introduction to Practicum III.....	1 cr.
SON	2061	Seminar in Sonography .....	3 cr.
SON	2111	Abdominal Sonography I .....	3 cr.
SON	2112	Abdominal Sonography II.....	3 cr.
SON	2121	Obstetric and Gynecology in Sonography I.....	4 cr.
SON	2122	Obstetric and Gynecology in Sonography II.....	3 cr.
SON	2211	Sonographic Physics and Instrumentation .....	3 cr.
SON	2211L	Sonographic Physics and Instrumentation Laboratory.....	1 cr.
SON	2814	Sonographic Clinical Practicum I .....	3 cr.
SON	2824	Sonographic Clinical Practicum II.....	3 cr.
SON	2834	Sonographic Clinical Practicum III.....	3 cr.

**AAS • Emergency Medical Services****AAS.EMST.TECH (73 Credit Hours)**

If the student wants to become certified as an emergency medical technician or as a paramedic, the student will earn a college credit certificate.

All three levels are fully approved by the Florida Department of Health, and the student will be eligible to take the Florida or National Registry examination for EMT or paramedic upon completion of this program.

The Paramedic Program is accredited by the Committee on Accreditation of Educational Programs for EMS Professionals (CoAEMSP) 4101 West Green Oaks Blvd., Suite 305-599, Arlington, Texas, 76016, in cooperation with the Commission on Accreditation of Allied Health Programs (CAAHEP), 1361 Park Street, Clearwater, Florida 33756.

This program provides paramedics with an opportunity to further their education by earning an associate in applied science degree. The student must first be accepted into the paramedic program or be certified or certification eligible to enroll in this program.

Statewide curriculum guidelines allow students who complete an ATD at a vocational technical center to be awarded 11 college credits upon enrolling at HCC. These credit hours will be applied toward an AAS degree in Emergency Medical Services.

**General Education Requirements**

BSC	1085	Human Anatomy and Physiology.....	3 cr.
BSC	1085L	Human Anatomy and Physiology.....	1 cr.
ENC	1101	English Composition I.....	3 cr.
PSY	2012	General Psychology .....	3 cr.
		Humanities General Education.....	3 cr.
		Mathematics General Education.....	3 cr.

**Program Required Courses**

BSC	1086	Anatomy and Physiology II.....	3 cr.
BSC	1086L	Anatomy and Physiology II Laboratory .....	1 cr.
		Completion of EMT College Credit Certificate .....	11 cr.
		Completion of Paramedic College Credit Certificate .....	42 cr.

## CCC • Emergency Medical Technician

### CCC.EMT (11 Credit Hours)

EMT training is a one-semester program designed to prepare students to provide basic life support measures, as a member of an ambulance crew, at the scene of an accident, during transport to a hospital or medical facility, and in the medical facility. Course work combines classroom lecture, practical skills laboratory and actual patient clinical experiences.

The lecture portion (seven credit hours) covers the United States Department of Transportation National Standard Curriculum for the Emergency Medical Technician-Basic as well as skills required by the state.

The practical skills laboratory portion (two credit hours) includes application practice and performance testing in simulated patient care situations. The clinical portion (one credit hour) provides actual patient care during transport to a hospital and in the hospital setting.

**NOTE:** An additional cost for a criminal background check is required. Drug testing is required.

#### Program Required Courses

EMS	1119	Emergency Medical Technician .....	7 cr.
EMS	1119L	Emergency Medical Technician Practicum .....	2 cr.
EMS	1431	Emergency Medical Technician (EMT) Clinical .....	1 cr.
HSC	1220	Introduction to Health Sciences .....	1 cr.

### EMT-Retracking

EMT Technician-Basic (EMT-B) students have one year to successfully complete all course work and one year from course completion to obtain state certification. Students who do not successfully complete the EMT-B program within one year or who do not obtain state certification within one year after course completion must retake all courses of the EMT-B program.

## CCC • Paramedic

### CCC.PARA (42 Credit Hours)

In addition to performing the skills of an EMT-Basic, paramedics are trained in advanced life support techniques, including endotracheal intubation, electrocardiogram monitoring and interpretation, DC electrical counter shock and administration of intravenous fluids and medications.

The program is offered on different schedules with two admission dates per year (see the allied health admissions criteria and procedure section of this catalog). Classes are scheduled to accommodate the 24-48 hour work shifts.

Class work includes the most current courses required by the United States Department of Transportation as well as anatomy, physiology and advanced cardiac life support courses.

#### Program Required Courses

EMS	2617C	Assessment - Based Management Proficiency .....	2 cr.
EMS	2621	Paramedic Phase I .....	7 cr.
EMS	2621L	Paramedic Phase I Practicum .....	4 cr.
EMS	2622	Paramedic Phase II .....	8 cr.
EMS	2622L	Paramedic Phase II Practicum .....	4 cr.
EMS	2623	Paramedic Phase III .....	6 cr.
EMS	2623L	Paramedic Phase III Practicum .....	2 cr.
EMS	2666	Paramedic Clinical I .....	3 cr.
EMS	2667	Paramedic Clinical II .....	3 cr.
EMS	2668	Paramedic Clinical III .....	3 cr.

## AAS • Nuclear Medicine Technology

### AAS.NMT (75 Credit Hours)

Nuclear medicine uses radioactive materials in the diagnosis and treatment of disease. Nuclear medicine technologists prepare and administer radiopharmaceutical materials, operate nuclear instruments, position patients for “imaging” procedures, perform lab tests and work up diagnostic data for physicians. Graduates of this program are eligible to take national registry examinations and Florida licensure for nuclear medicine technologists.

The Nuclear Medicine Technology program is accredited by the Joint Review Committee on Educational Programs in Nuclear Medicine Technology, 716 Black Point Road, P.O. Box 1149, Polson, MT 59860-1149, (406) 883-0003.

Clinical evaluations are used to assess a student’s performance in the clinical environment.

### Prerequisite Courses for Admission

BSC	1085	Anatomy and Physiology .....	3 cr.
BSC	1085L	Anatomy and Physiology Laboratory.....	1 cr.
CHM	1025	Modern Chemistry <b>and</b> CHM 1025L, Modern Chemistry Laboratory or any higher level four credit hour chemistry with laboratory .....	4 cr.
ENC	1101	English Composition I.....	3 cr.
MGF	1119	Introductory Mathematics w/ Applications (non-transfer) <b>or</b> Mathematics General Education (transfer) .....	3 cr.

### General Education Requirements

PSY	2012	General Psychology .....	3 cr.
		Humanities General Education.....	3 cr.

### Program Required Courses

BSC	1086	Human Anatomy and Physiology II.....	3 cr.
BSC	1086L	Human Anatomy and Physiology II Laboratory .....	1 cr.
NMT	1002	Introduction to Nuclear Medicine Technology .....	3 cr.
NMT	1051	Nuclear Medicine Data Analysis.....	3 cr.
NMT	1103	Introduction to Patient Care.....	2 cr.
NMT	1312	Radiation Safety and Health Physics .....	3 cr.
NMT	1534	Nuclear Instrumentation.....	3 cr.
NMT	1534L	Nuclear Instrumentation Laboratory .....	1 cr.
NMT	1613	Nuclear Physics .....	3 cr.
NMT	1713	Nuclear Medicine Methodology I.....	4 cr.
NMT	1723	Nuclear Medicine Methodology II .....	4 cr.
NMT	1804	Nuclear Medicine Practicum I.....	4 cr.
NMT	1814	Nuclear Medicine Practicum II .....	4 cr.
NMT	2061	Nuclear Medicine Seminar .....	3 cr.
NMT	2733	Nuclear Medicine Methodology III.....	4 cr.
NMT	2824	Nuclear Medicine Practicum III.....	4 cr.
RTE	1782	Pathology of Medical/Surgical Diseases.....	3 cr.
RTE	2385	Radiation Biology.....	3 cr.

## AS • Nursing

### AS.NUR.NURB/AS. NUR.NURT (72 Credit Hours)

Graduates of this program are eligible to take the nursing licensing examination administered by the National Council of State Boards of Nursing and, upon successful completion, receive the Registered Nursing (RN) license. The HCC Nursing program is approved by the Florida State Board of Nursing and accredited by the National League for Nursing Accrediting Commission. The Commission is located at 61 Broadway-33rd Floor, New York, New York, 10006, (212) 363-5555. Graduates of the associate in science degree nursing program are able to provide direct patient care to patients in hospitals and comparable health agencies.

The HCC Nursing program is offered at the Dale Mabry and the Plant City campuses.

The duration of the program is four terms for the basic option and three terms for the transition option. The program requires a full-time attendance commitment from the student. The program is offered in a day and evening/Saturday format with both day and evening clinical experiences utilized.

Students, under the careful supervision of the nursing faculty, are provided valuable patient care experiences in participating hospitals and community health agencies.

Enrollment in the nursing program is limited because of the availability of clinical placements for students to develop competence in their practical skills. Therefore, individuals must make application for consideration for admission to the nursing program. The associate in science degree program has two options: one for the basic student and another for the transition student. Individuals interested in applying to the program should obtain a Nursing Packet from Student Services on the Dale Mabry Campus, telephone (813) 253-7364.

The basic option is for the individual who does not have prior nursing background. For this option, individuals are selected for admission to the Fall and Spring semesters of each academic year.

Individuals who are already licensed practical nurses or licensed paramedics may make application to and be selected for the transition option. This option admits students only during the summer term of each academic year. The Statewide Articulation Agreement allows for individuals who have completed a practical nursing program in Florida within the last 5 years and who hold a current Florida licensure as a practical nurse to be awarded 10 credit hours toward the Nursing Transition AS degree. Students admitted to the LPN to RN program who do not meet these guidelines must have a valid, current Florida LPN license and must also provide documentation of 6 months of full-time employment as an LPN within the past three years. Ten credit hours of experiential credit will be awarded with the payment of a \$15 processing fee. The articulated or experiential credits are awarded upon successful completion of 15 credit hours of program coursework toward the Nursing AS degree.

Students will be required to take nationally normed tests throughout the curriculum and to make a satisfactory score on such tests. In the last semester of the curriculum, students will be required to take a comprehensive exam and to make a satisfactory score on such an exam prior to graduation/ taking the licensing exam.

### Minimum Progress Requirements

#### Basic Student

All non-nursing courses must be completed with a minimum grade of "C" before entering into the final semester of the nursing program.

#### Transition Student: LPN and Paramedic

All non-nursing courses must be completed with a minimum grade of "C" before entering into the final semester of the nursing program.

### Clinical Performance

A student who is determined to be unsafe in the clinical component of any nursing course may, at the discretion of the nursing faculty, be immediately barred from continuing in the program.

**NOTE:** Beginning Fall Term 2000, all graduates of this program shall articulate into a Nursing baccalaureate degree in the designated university program under the provision of Rule 6A-10.024, Articulation Between Universities, Community Colleges, and School Districts.

### Prerequisites for Admission

**The following prerequisites for admission apply to the AS Nursing Basic and the AS Nursing ADN**

#### Transition

BSC	1085	Human Anatomy and Physiology I .....	3 cr.
BSC	1085L	Human Anatomy and Physiology I Laboratory.....	1 cr.
BSC	1086	Human Anatomy and Physiology II.....	3 cr.
BSC	1086L	Human Anatomy and Physiology II Laboratory .....	1 cr.
ENC	1101	English Composition I.....	3 cr.
MGF	1106	Mathematics for Liberal Arts I.....	3 cr.
MCB	1000	Microbiology and Human Disease.....	3 cr.
MCB	1000L	Microbiology and Human Disease Laboratory .....	1 cr.
SYG	2000	Introduction to Sociology .....	3 cr.

**General Education Requirements**

The following general education requirements apply to the AS Nursing Basic and the AS Nursing ADN Transition

ENC	1102	English Composition II .....	3 cr.
		Humanities General Education.....	3 cr.

**AS • Nursing - Basic Option****AS.NUR.NURB****Program Required Courses**

NUR	1213C	Nursing Process I .....	10 cr.
NUR	1260C	Nursing Process II.....	10 cr.
NUR	2243C	Nursing Process IV .....	10 cr.
NUR	2412C	Nursing Process III .....	10 cr.
NUR	2521C	Mental Health Nursing .....	2 cr.

**Select 3 specified elective credits from the following:**

BSC	1025	Nutrition and Drugs .....	3 cr.
BSC	1025L	Nutrition and Drugs Laboratory .....	1 cr.
CHM	1032	Chemistry for Health Sciences .....	3 cr.
CHM	1032L	Chemistry for Health Sciences Laboratory .....	1 cr.
DEP	1004	Developmental Psychology of Life Span.....	3 cr.
HUN	2201	Fundamentals of Human Nutrition .....	3 cr.
PHI	1600	Ethics.....	3 cr.
PSY	2012	General Psychology .....	3 cr.
NUR	1060	Health Assessment.....	3 cr.

**AS • Nursing - ADN Transition Option****AS.NUR.NURT****Program Required Courses**

NUR	1000	Introduction to Basic Healthcare Concepts.....	1 cr.
NUR	1213C	Nursing Process I .....	10 cr.
NUR	1260C	Nursing Process II.....	10 cr.
NUR	2243C	Nursing Process IV .....	10 cr.
NUR	2413C	Nursing Process III for Transition Option .....	9 cr.
NUR	2521C	Mental Health Nursing .....	2 cr.

**Select 3 specified elective credits from the following:**

BSC	1025	Nutrition and Drugs .....	3 cr.
BSC	1025L	Nutrition and Drugs Laboratory .....	1 cr.
CHM	1032	Chemistry for Health Sciences .....	3 cr.
CHM	1032L	Chemistry for Health Sciences Laboratory .....	1 cr.
DEP	1004	Developmental Psychology of Life Span.....	3 cr.
HUN	2201	Fundamentals of Human Nutrition .....	3 cr.
PHI	1600	Ethics.....	3 cr.
PSY	2012	General Psychology .....	3 cr.
NUR	1060	Health Assessment.....	3 cr.

**NOTE:** 10 credit hours of articulated credit or experiential credit may be awarded to individuals who are licensed practical nurses.

## AS/AAS • Optical Management Technology

### AAS.OPT.MAN (60 Credit Hours)

The primary goal of this program is to prepare the student for a supervisory or a management position in the ophthalmic industry. Students will learn about such topics as safety and sports, vision, customer service and merchandising.

#### General Education Requirements

ENC	1101	English Composition I.....	3 cr.
MGF	1119	Introductory Mathematics w / Applications (non-transfer) or Mathematics General Education (transfer).....	3 cr.
		Social Science General Education.....	6 cr.
		Humanities General Education.....	3 cr.

#### Option 1

Experiential Credit*	.....	12 cr.
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#### Program Required Courses

CGS	1107	Introduction Computers.....	1 cr.
ECO	2013	Principles of Macroeconomics.....	3 cr.
FIN	1100	Personal Finance.....	3 cr.
GEB	1011	Introduction Business.....	3 cr.
MAN	1021	Principles of Management.....	3 cr.
MAR	1011	Principles of Marketing.....	3 cr.
OPT	1225	Low Vision.....	3 cr.
OPT	1666	Safety and Sports Vision.....	3 cr.
OPT	2204	Anatomy and Physiology of the Eye.....	3 cr.
OPT	2375	Refractometry.....	2 cr.
OPT	2375L	Refractometry I Laboratory.....	2 cr.
OPT	2376L	Refractometry II Laboratory.....	1 cr.
OPT	2910	Directed Research.....	3 cr.

#### Option 2

Experiential Credit*	.....	12 cr.
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#### Program Required Courses

CGS	1000	Introduction to Computers and Technology.....	3 cr.
ECO	2013	Principles of Macroeconomics.....	3 cr.
ECO	2023	Principles of Microeconomics.....	3 cr.
FIN	1100	Personal Finance.....	3 cr.
GEB	1011	Introduction Business.....	3 cr.
MAN	1021	Principles of Management.....	3 cr.
MAR	1011	Principles of Marketing.....	3 cr.
OPT	1666	Safety and Sports Vision.....	3 cr.
OPT	2204	Anatomy and Physiology of the Eye.....	3 cr.
OPT	2800L	Vision Care Clinical 1.....	2 cr.
OPT	2910	Directed Research.....	3 cr.
SPC	1006	Speech Improvement.....	1 cr.

### Optical Management Associate in Science Degree Enrollees

\*Students who provide the college with documentation verifying Opticianry licensure and have completed a minimum of 15 credit hours of Optical Management courses will be awarded 12 credit hours toward an associate in applied science degree in Optical Management.

### Experiential Credit for Opticianry License

#### Credit Awarded toward Optical Management Technology Options

OPT	1155	Ophthalmic Lens I.....	3 cr.
OPT	1156	Ophthalmic Lens II.....	3 cr.
OPT	1460	Ophthalmic Dispensing I.....	3 cr.
OPT	2461	Ophthalmic Dispensing II.....	3 cr.

## AS/AAS • Opticianry

### AAS.OPT (72 Credit Hours)

As an essential part of the "eye care delivery system," opticians measure, fit and adapt eyeglasses and contact lenses to people with vision problems. Coursework covers basic ocular science including: optics, anatomy, contact lenses, and refractometry. It also allows the students to gain specific skills in professional management, eyewear fabrications, and dispensing. Clinical experience is gained in a state-of-the-art on-campus dispensary and at affiliate sites. Graduates of the program are eligible to take state and national certification and/or licensure exams for opticians. Campus based or Internet based programs available. The Opticianry Program is accredited by the Commission on Opticianry Accreditation, P.O. Box 142, Florence, IN 47020. For further information contact Ellen Stoner, Director of Accreditation (703) 468-0566 or [ellen@coaccreditation.com](mailto:ellen@coaccreditation.com).

#### General Education Requirements

ENC	1101	English Composition I.....	3 cr.
MGF	1119	Introductory Mathematics w/ Applications (non-transfer) or Mathematics General Education (transfer).....	3 cr.
		Humanities General Education.....	3 cr.
		Social Science General Education.....	6 cr.

#### Program Required Courses

OPT	1000	Ophthalmic Orientation.....	1 cr.
OPT	1155	Ophthalmic Lens I.....	3 cr.
OPT	1156	Ophthalmic Lens II.....	3 cr.
OPT	1400L	Ophthalmic Laboratory I.....	3 cr.
OPT	1430L	Ophthalmic Laboratory II.....	3 cr.
OPT	1460	Ophthalmic Dispensing I.....	3 cr.
OPT	1460L	Ophthalmic Dispensing I Laboratory.....	3 cr.
OPT	2030	Ophthalmic Board Review.....	1 cr.
OPT	2204	Anatomy and Physiology of the Eye.....	3 cr.
OPT	2375	Refractometry.....	2 cr.
OPT	2375L	Refractometry I Laboratory.....	2 cr.
OPT	2376L	Refractometry II Laboratory.....	1 cr.
OPT	2461	Ophthalmic Dispensing II.....	3 cr.
OPT	2461L	Ophthalmic Dispensing Laboratory II.....	3 cr.
OPT	2463L	Ophthalmic Skills Laboratory I.....	2 cr.
OPT	2500	Contact Lens Theory I.....	3 cr.
OPT	2500L	Contact Lens I Laboratory.....	2 cr.
OPT	2501	Contact Lens Theory II.....	2 cr.
OPT	2501L	Contact Lens II Laboratory.....	2 cr.
OPT	2502L	Contact Lens III Laboratory.....	1 cr.
OPT	2910	Directed Research.....	3 cr.
OPT	2800L	Vision Care Clinical I.....	2 cr.
OPT	2801L	Vision Care Clinical II.....	2 cr.
OPT	2802L	Vision Care Clinical III.....	2 cr.
OPT	2803L	Vision Care Clinical IV.....	2 cr.

## ATC • Visual Assessment

### ATC.OPT (11 Credit Hours)

This 11 credit hour program provides training in Safety and Sports Vision, Low Vision and Refraction for students who have already earned an associate in applied science degree in Opticianry.

#### Program Required Courses

OPT	1225	Low Vision.....	3 cr.
OPT	1666	Safety and Sports Vision.....	3 cr.
OPT	2375	Refractometry.....	2 cr.
OPT	2375L	Refractometry Laboratory I.....	2 cr.
OPT	2376L	Refractometry Laboratory II.....	1 cr.

**CCC • Eye Care Technician****CCC.EYE.TECH (48 Credit Hours)**

This program will prepare the student to perform visual assessment, contact lens fitting and spectacle dispensing while working closely with ophthalmologists and optometrists. All credits may be applied to the Opticianry Degree.

**Program Required Courses**

OPT	1000	Ophthalmic Orientation.....	1 cr.
OPT	1155	Ophthalmic Lens I.....	3 cr.
OPT	1156	Ophthalmic Lens II.....	3 cr.
OPT	1225	Low Vision.....	3 cr.
OPT	1400L	Ophthalmic Laboratory I.....	3 cr.
OPT	1460	Ophthalmic Dispensing I.....	3 cr.
OPT	1460L	Ophthalmic Dispensing I Laboratory.....	3 cr.
OPT	2204	Anatomy and Physiology of the Eye.....	3 cr.
OPT	2375	Refractometry.....	2 cr.
OPT	2375L	Refractometry I Laboratory.....	2 cr.
OPT	2376L	Refractometry II Laboratory.....	1 cr.
OPT	2461	Ophthalmic Dispensing II.....	3 cr.
OPT	2461L	Ophthalmic Dispensing Laboratory II.....	3 cr.
OPT	2463L	Ophthalmic Skills Laboratory I.....	2 cr.
OPT	2500	Contact Lens Theory I.....	3 cr.
OPT	2500L	Contact Lens I Laboratory.....	2 cr.
OPT	2501	Contact Lens Theory II.....	2 cr.
OPT	2501L	Contact Lens Lab II.....	2 cr.
OPT	2800L	Vision Care Clinical I.....	2 cr.
OPT	2801L	Vision Care Clinical II.....	2 cr.

**CCC • Ophthalmic Laboratory Technician****CCC.OPT.LAB.TECH (24 Credit Hours)**

This program teaches surfacing, finishing and other related tasks necessary to fabricate prescription eyewear. It will prepare you to work in a wholesale or retail optical laboratory. All credits from this certificate may be applied to the Opticianry Degree.

**Program Required Courses**

OPT	1000	Ophthalmic Orientation.....	1 cr.
OPT	1155	Ophthalmic Lens I.....	3 cr.
OPT	1156	Ophthalmic Lens II.....	3 cr.
OPT	1400L	Ophthalmic Laboratory I.....	3 cr.
OPT	1460	Ophthalmic Dispensing I.....	3 cr.
OPT	1460L	Ophthalmic Dispensing I Laboratory.....	3 cr.
OPT	2204	Anatomy and Physiology of the Eye.....	3 cr.
OPT	2500	Contact Lens Theory I.....	3 cr.
OPT	2800L	Vision Care Clinical I.....	2 cr.

## AS • Radiation Therapy

### AS.RAT.GEN (77 Credit Hours)

This program is designed for students who want to work directly with patients receiving high-energy treatments using state-of-the-art and cutting-edge technology. Students will work as a vital member of the health care team directly administering patient care and treatment.

Upon successful completion of the program, students are eligible to apply for the national radiation therapy examination administered by the American Registry of Radiologic Technologists.

The program is accredited by the Joint Review Committee on Education in Radiologic Technology, 20 N. Wacker Drive, Suite 2850, Chicago, IL 60606-3182 (312) 704-5300.

Students' performance will be based on didactic and clinical competencies.

**NOTE:** All graduates of this program who take the general education math will be eligible for admission into the University of South Florida bachelors of science in applied science (BSAS) degree program.

### Prerequisite Courses for Admission

BSC	1085	Anatomy and Physiology I.....	3 cr.
BSC	1085L	Anatomy and Physiology I Laboratory .....	1 cr.
ENC	1101	English Composition I.....	3 cr.
MAC	1105	College Algebra <b>or</b> higher mathematics .....	3 cr.
PSY	2012	General Psychology .....	3 cr.

### General Education Requirements

ENC	1102	English Composition II .....	3 cr.
		Humanities General Education.....	3 cr.

### Program Required Courses

BSC	1086	Anatomy and Physiology II.....	3 cr.
BSC	1086L	Anatomy and Physiology II Laboratory .....	1 cr.
RAT	1614	Radiation Therapy Physics I.....	2 cr.
RAT	1618	Radiation Therapy Physics II .....	2 cr.
RAT	1800	Introduction to Radiation Therapy Clinic I.....	1 cr.
RAT	1810	Introduction to Radiation Therapy Clinic II .....	2 cr.
RAT	2001C	Introduction to Radiation Therapy .....	2 cr.
RAT	2021	Radiation Therapy Treatment Planning .....	3 cr.
RAT	2023	Principles and Practices of Radiation Therapy I .....	3 cr.
RAT	2061	Radiation Therapy Seminar.....	2 cr.
RAT	2242	Principles and Practices of Radiation Therapy II .....	4 cr.
RAT	2303	Psychosocial Aspects of Oncology .....	2 cr.
RAT	2619L	Computer Applications in Treatment Planning.....	2 cr.
RAT	2620	Radiation Therapy Physics III .....	3 cr.
RAT	2621C	Radiation Therapy Physics IV .....	3 cr.
RAT	2804	Radiation Therapy Clinic I.....	3 cr.
RAT	2814	Radiation Therapy Clinic II .....	3 cr.
RAT	2824	Radiation Therapy Clinic III.....	3 cr.
RAT	2901	Simulation Lecture I .....	1 cr.
RAT	2901L	Simulation I Laboratory .....	1 cr.
RAT	2902	Simulation Lecture II .....	1 cr.
RAT	2902L	Simulation II Laboratory .....	1 cr.
RTE	1157	Medical Imaging of Human Structures .....	3 cr.
RTE	1782	Pathology of Medical/Surgical Diseases.....	3 cr.
RTE	2385	Radiation Biology.....	3 cr.
RTE	2473L	Quality Assurance in Radiation Therapy .....	1 cr.

## CCC • Radiation Therapy Specialist

### CCC.RAT.SPEC (43 Credit Hours)

This program is designed for students who have successfully completed a program in Radiography and are eligible or certified by the American Registry of Radiologic Technologists. This program is designed for students who want to work directly with patients receiving high-energy treatments using state-of-the-art and cutting-edge technology. Students will work with a physician to administer patient treatment.

Upon successful completion of the program, students are eligible to apply for the national radiation therapy examination administered by the American Registry of Radiologic Technologists.

The program is accredited by the Joint Review Committee on Education in Radiologic Technology, 20 N. Wacker Drive, Suite 2850, Chicago, IL 60606-3182 (312) 704-5300.

Students' performance will be based on didactic and clinical competencies.

### Prerequisite for Admission

Applicants must be ARRT certified or eligible and must be ARRT certified by the first day of class.

### Program Required Courses

CGS	1107	Introduction to Computers.....	1 cr.
LIS	1004	Introduction to Internet Research.....	1 cr.
RAT	1810	Introduction to Radiation Therapy Clinic II.....	2 cr.
RAT	2021	Radiation Therapy Treatment Planning.....	3 cr.
RAT	2023	Principles and Practices of Radiation Therapy I.....	3 cr.
RAT	2061	Radiation Therapy Seminar.....	2 cr.
RAT	2242	Principles and Practices of Radiation Therapy II.....	4 cr.
RAT	2303	Psychosocial Aspects of Oncology.....	2 cr.
RTE	2385	Radiation Biology.....	3 cr.
RTE	2473L	Quality Assurance in Radiation Therapy.....	1 cr.
RAT	2619L	Computer Applications in Treatment Planning.....	2 cr.
RAT	2620	Radiation Therapy Physics III.....	3 cr.
RAT	2621C	Radiation Therapy Physics IV.....	3 cr.
RAT	2804	Radiation Therapy Clinic I.....	3 cr.
RAT	2814	Radiation Therapy Clinic II.....	3 cr.
RAT	2824	Radiation Therapy Clinic III.....	3 cr.
RAT	2901	Simulation Lecture I.....	1 cr.
RAT	2901L	Simulation I Laboratory.....	1 cr.
RAT	2902	Simulation Lecture II.....	1 cr.
RAT	2902L	Simulation II Laboratory.....	1 cr.

## AS • Radiography

### AS.RTE (77 Credit Hours)

Radiographers perform diagnostic radiographic (X-ray) procedures under the direct supervision of a physician.

This program includes course work and practical experiences in area clinical educational settings. Graduates are eligible to take the American Registry of Radiologic Technologists certification examination and will also be eligible for a Florida Radiographer license. The State of Florida has established the AS degree in radiography as a transfer degree to any Florida public university with a Baccalaureate degree in Radiologic Science under the provisions of Rule 6A-10.024. HCC has changed this program to meet the requirements of this rule. If you would like an AS Radiology degree that will transfer to a Florida public university Baccalaureate degree in Radiography, please see an HCC counselor for current course and program information.

The Radiography program is accredited by the Joint Review Committee on Education in Radiologic Technology, 20 N. Wacker Drive, Suite 2850, Chicago, IL 60606-3182 (312) 704-5300.

Radiography courses include strenuous physical activities, such as lifting and carrying. Clinical evaluations will be used to evaluate student performance in the clinical environment. Students will be placed on probation for an unsatisfactory clinical performance evaluation.

**NOTE:** Beginning Fall Term 2000, all graduates of this program shall articulate into a Radiologic Technology baccalaureate degree in the designated university program under the provision of Rule 6A-10.024, Articulation Between Universities, Community Colleges, and School Districts.

### Prerequisite Courses for Admission

BSC	1085	Anatomy and Physiology I.....	3 cr.
BSC	1085L	Anatomy and Physiology I Laboratory.....	1 cr.
ENC	1101	English Composition I.....	3 cr.
MAC	1105	College Algebra or higher level math.....	3 cr.
PSY	2012	General Psychology.....	3 cr.

**General Education Requirements**

Humanities General Education.....	3 cr.
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**Program Required Courses**

BSC	1086	Human Anatomy and Physiology II.....	3 cr.
BSC	1086L	Human Anatomy and Physiology II Laboratory .....	1 cr.
CGS	1000	Introduction to Computers and Technology .....	3 cr.
HSC	1220	Introduction to Health Sciences .....	1 cr.
RTE	1000	Introduction to Radiology .....	1.5 cr.
RTE	1111	Introduction to Radiography Patient Care.....	1.5 cr.
RTE	1308	Radiation Protection and Safety .....	2 cr.
RTE	1418	Principles of Radiographic Exposure I .....	3 cr.
RTE	1418L	Principles of Radiographic Exposure I Laboratory.....	1 cr.
RTE	1457	Principles of Radiographic Exposure II .....	1 cr.
RTE	1503	Radiographic Positioning I .....	3 cr.
RTE	1503L	Radiographic Positioning I Laboratory .....	1 cr.
RTE	1513	Radiographic Positioning II.....	3 cr.
RTE	1513L	Radiographic Positioning II Laboratory .....	1 cr.
RTE	1523	Radiographic Positioning III .....	3 cr.
RTE	1523L	Radiographic Positioning III Laboratory.....	1 cr.
RTE	1607	Radiographic Science Principles .....	1 cr.
RTE	1613	Radiographic Physics I.....	3 cr.
RTE	1782	Pathology of Medical/Surgical Disease .....	3 cr.
RTE	1800	Introduction to Radiography Practicum .....	2 cr.
RTE	1804	Radiography Practicum I.....	3 cr.
RTE	1814	Radiography Practicum II .....	3 cr.
RTE	1824	Radiography Practicum III .....	3 cr.
RTE	2061	Radiographic Seminar .....	2 cr.
RTE	2385	Radiation Biology.....	3 cr.
RTE	2473L	Quality Assurance.....	1 cr.
RTE	2563	Special Radiographic Procedures .....	2.5 cr.
RTE	2834	Radiography Practicum IV .....	3 cr.
RTE	2844	Radiography Practicum V .....	1.5 cr.

**AS • American Registry of Radiologic Technologists Option****AS.RTE.ARRT (76 Credit Hours)**

Graduates of an approved hospital school of radiologic technology may earn an associate in science degree in this special program for registered radiologic technologists.

Students who present evidence of their graduation and proof of their current registration with the American Registry of Radiologic Technologists (A.R.R.T.) will be granted 53 credit hours and will be able to earn an AS degree by completing an additional 23 credit hours as listed here.

**NOTE:** All graduates of this program who take the general education math will be eligible for admission into the University of South Florida Bachelor of Science in Applied Science (BSAS) degree program.

**General Education Requirements**

ENC	1101	English Composition I.....	3 cr.
ENC	1102	English Composition II .....	3 cr.
PSY	2012	General Psychology .....	3 cr.
		Humanities General Education.....	3 cr.
		Mathematics General Education.....	3 cr.

**Program Required Courses**

CGS	1107	Introduction to Computers.....	1 cr.
PHY	1025	Fundamentals of Physics <b>and</b> PHY 1025L, Fundamentals of Physics Laboratory <b>or</b> higher level physics w/laboratory .....	4 cr.
SPC	1006	Speech Improvement.....	1 cr.
		Electives.....	2 cr.

**ARRT Option Transfer Credits (53 cr.)**

RTE	1000	Introduction to Radiology .....	1.5 cr.
RTE	1111	Introduction to Radiography Patient Care.....	1.5 cr.
RTE	1308C	Radiation Protection and Safety .....	2 cr.
RTE	1418	Principles of Radiographic Exposure I .....	3 cr.
RTE	1418L	Principles of Radiographic Exposure I Laboratory.....	1 cr.
RTE	1457	Principles of Radiographic Exposure II .....	1 cr.
RTE	1503	Radiographic Positioning I.....	3 cr.
RTE	1503L	Radiographic Positioning I Laboratory .....	1 cr.
RTE	1513	Radiographic Positioning II.....	3 cr.
RTE	1513L	Radiographic Positioning II Laboratory .....	1 cr.
RTE	1523	Radiographic Positioning III .....	3 cr.
RTE	1523L	Radiographic Positioning III Laboratory.....	1 cr.
RTE	1607	Radiographic Science Principles.....	1 cr.
RTE	1613	Radiographic Physics I.....	3 cr.
RTE	1782	Pathology of Medical/Surgical Disease .....	3 cr.
RTE	1800	Introduction to Radiography Practicum .....	2 cr.
RTE	1804	Radiography Practicum I.....	3 cr.
RTE	1814	Radiography Practicum II.....	3 cr.
RTE	1824	Radiography Practicum III .....	3 cr.
RTE	2061	Radiographic Seminar .....	2 cr.
RTE	2385	Radiation Biology.....	3 cr.
RTE	2473L	Quality Assurance.....	1 cr.
RTE	2563	Special Radiographic Procedures .....	2.5 cr.
RTE	2834	Radiography Practicum IV .....	3 cr.
RTE	2844	Radiography Practicum V .....	1.5 cr.

**AAS • Respiratory Care****AAS.RET (76 Credit Hours)**

Respiratory care is an allied health discipline operating with medical direction in the treatment, management, control, diagnostic evaluation and rehabilitation of patients with abnormalities of the cardiopulmonary system.

Respiratory care includes the therapeutic use of the following: medical gases and administration devices, environmental control systems, humidification, aerosols, medications, ventilatory support, bronchopulmonary drainage, pulmonary rehabilitation, cardiopulmonary resuscitation, and airway management. Specific testing techniques are employed in respiratory care to assist in diagnosis, monitoring, treatment and research.

Students who complete this program will be eligible to take the national certification and registry exams administered by the National Board for Respiratory Care (NBRC). Upon completion of the exams, students will be a Registered Respiratory Therapist (RRT). Most states require a license to practice.

The Respiratory Care program is accredited by the Committee on Accreditation for Respiratory Care, 1248 Harwood Road, Bedford, Texas, 76021-4244, (800-874-5615). Clinical evaluations will be used to evaluate performance in the clinical environment.

**Prerequisite Courses for Admission****AAS Respiratory Care and AAS Respiratory Care Transition programs**

BSC	1085	Anatomy and Physiology I.....	3 cr.
BSC	1085L	Anatomy and Physiology I Laboratory .....	1 cr.
MGF	1119	Introductory Mathematics with Applications (non-transfer) or Mathematics General Education (transfer).....	3 cr.

**General Education Requirements**

ENC	1101	English Composition I.....	3 cr.
PSY	2012	General Psychology .....	3 cr.
		Humanities General Education.....	3 cr.

**AAS • Respiratory Care****AAS.RET****Program Required Courses**

BSC	1086	Anatomy and Physiology II.....	3 cr.
BSC	1086L	Anatomy and Physiology II Laboratory .....	1 cr.
EMS	2551C	Advanced Cardio Life Support.....	2 cr.
MCB	1000	Microbiology and Human Disease.....	3 cr.
MCB	1000L	Microbiology Laboratory .....	1 cr.
RET	1024C	Introduction to Respiratory Care.....	8 cr.
RET	1274C	Basic Respiratory Care .....	6 cr.
RET	1350	Pharmacology for Respiratory Care.....	3 cr.
RET	1503	Cardiopulmonary Pathophysiology .....	3 cr.
RET	1832	Respiratory Care Clinic I.....	2 cr.
RET	1833	Respiratory Care Clinic II .....	1 cr.
RET	2264C	Principles of Mechanical Ventilation .....	5 cr.
RET	2283	Respiratory Intensive Care .....	3 cr.
RET	2413C	Pulmonary Diagnostics.....	2 cr.
RET	2533C	Advanced Respiratory Care .....	6 cr.
RET	2714C	Pediatric and Neonatal Respiratory Care.....	3 cr.
RET	2834	Respiratory Care Clinic III.....	2 cr.
RET	2835	Respiratory Care Clinic IV.....	2 cr.
RET	2836	Respiratory Care Clinic V .....	1 cr.
RET	2930	Respiratory Care Seminar.....	3 cr.

**AAS • Respiratory Care - Transition****AAS.RET.TRAN**

An individual who has earned the Certified Respiratory Therapist credential from the National Board for Respiratory Care (NBRC) is eligible to receive 23 hours of college credit toward the associate in applied science degree in Respiratory Care.

**Program Required Courses**

BSC	1086	Anatomy and Physiology II.....	3 cr.
BSC	1086L	Anatomy and Physiology II Laboratory .....	1 cr.
EMS	2551C	Advanced Cardiac Life Support .....	2 cr.
MCB	1000	Microbiology and Human Disease.....	3 cr.
MCB	1000L	Microbiology Laboratory .....	1 cr.
RET	2264C	Principles of Mechanical Ventilation .....	5 cr.
RET	2283	Respiratory Intensive Care .....	3 cr.
RET	2413C	Pulmonary Diagnostics.....	2 cr.
RET	2533C	Advanced Respiratory Care .....	6 cr.
RET	2714C	Pediatric and Neonatal Respiratory Care.....	3 cr.
RET	2834	Respiratory Care Clinic III.....	2 cr.
RET	2835	Respiratory Care Clinic IV.....	2 cr.
RET	2836	Respiratory Care Clinic V .....	1 cr.
RET	2930	Respiratory Care Seminar.....	3 cr.

**Experiential Credit Awarded**

RET	1024C	Introduction to Respiratory Care.....	8 cr.
RET	1274C	Basic Respiratory Care .....	6 cr.
RET	1350	Pharmacology for Respiratory Care.....	3 cr.
RET	1503	Cardiopulmonary Pathophysiology .....	3 cr.
RET	1832	Respiratory Care Clinic I.....	2 cr.
RET	1833	Respiratory Care Clinic II .....	1 cr.

## Cardiovascular Technology

The Cardiovascular Technology Program allows students to obtain an associate in science degree in Cardiovascular Technology. The courses are offered and taught jointly by Hillsborough Community College and Edison College. HCC offers the general education portion of the degree and assists in the teaching of the cardiovascular courses. The degree is granted by Edison College. The program is delivered via distance learning technology; that is, there is a two-way audio/video interaction with one or more remote sites located in classrooms geographically distant from the Edison College campus. Some travel to Edison College will be required.

The cardiovascular technologist performs diagnostic studies on patients in order to quantify cardiac disease including coronary arteriography, hemodynamic monitoring and analysis, and electrophysiology studies. They also assist the cardiologist in interventional therapeutic procedures including coronary angioplasty, rotoblator procedures, intra-coronary stenting, pacemaker insertion, and radio frequency ablation. For further information, contact Jeff Davis at Edison Community College (239) 489-9430 or [jdavis@edison.edu](mailto:jdavis@edison.edu).