

HEALTH SCIENCES

ASSOCIATE DEGREE NURSING

The Associate Degree Nursing curriculum provides knowledge, skills, and strategies to integrate safety and quality into nursing care, to practice in a dynamic environment, and to meet individual needs which impact health, quality of life, and achievement of potential.

Course work includes and builds upon the domains of healthcare, nursing practice, and the holistic individual. Content emphasizes the nurse as a member of the interdisciplinary team providing safe, individualized care while employing evidence-based practice, quality improvement, and informatics.

Graduates of this program are eligible to apply to take the National Council Licensure Examination (NCLEX-RN). Employment opportunities are vast within the global health care system and may include positions within acute, chronic, extended, industrial, and community health care facilities.

Associate Degree Nursing - A45110

-Day

First Term

NUR 111	Introduction to Health Concepts	8
BIO 168	Anatomy and Physiology I	4
PSY 150	General Psychology	3
ENG 111	Writing and Inquiry	3

Second Term

NUR 112	Health-Illness Concepts	5
NUR 114	Holistic Health Concepts	5
BIO 169	Anatomy and Physiology II	4
PSY 241	Developmental Psychology	3

Third Term

NUR 211	Health Care Concepts	5
BIO 175	General Microbiology	3

Fourth Term

NUR 113	Family Health Concepts	5
NUR 212	Health System Concepts	5
SOC 210	Introduction to Sociology	3
ENG 112	Writing/Research in the Disc	3

Fifth Term

NUR 213	Complex Health Concepts	10
	Humanities/Fine Arts Elective	3

Graduation Requirements 72 Credit Hours

*HUMANITIES/FINE ARTS ELECTIVE:

Choose one from:
 ART 111,114,115
 HUM 115
 MUS 110, 112
 PHI 215, 240

*Demonstrate a chemistry or biology proficiency. This proficiency requirement may be satisfied by completing ONE of the following: one unit of a high school chemistry course with a grade of "C" or better; or CHM 090 (Chemistry Concepts) or an equivalent CHM 090 with a grade of "C" or better; or completion of Wake Tech's chemistry tutorial (CheMOOC); or completion of BIO 110, BIO 111, or CHM 130 or higher (or a transfer equivalent class) with a grade of "C" or better; or completion of BIO 168 (or a transfer equivalent class) with a grade of "C" or higher within 5 years of beginning the first clinical Nursing (NUR) class

Associate Degree Nursing - A45110

LPN to RN – Advanced Placement Option

-Day

First Term

BIO 168	Anatomy and Physiology I	4
PSY 150	General Psychology	3
ENG 111	Writing and Inquiry	3
SOC 210	Introduction to Sociology	3

Second Term

BIO 169	Anatomy and Physiology II	4
PSY 241	Developmental Psychology	3
BIO 175	General Microbiology	3

Third Term

NUR 214	Nursing Transition Concepts	4
	Humanities/Fine Arts Elective	3

Fourth Term

NUR 114	Holistic Health Concepts	5
NUR 212	Health System Concepts	5
ENG 112	Writing/Research in the Disc	3

Fifth Term

NUR 213	Complex Health Concepts	10
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**Licensed Practical Nurses

Advanced Placement Option Credits..... 19

Graduation Requirements 72 Credit Hours

COMPUTED TOMOGRAPHY TECHNOLOGY

The Computed Tomography Technology curriculum prepares the individual to use specialized equipment to visualize cross-sectional anatomical structures and aid physicians in the demonstration of pathologies and disease processes. **Individuals entering this curriculum must be registered or registry-eligible radiologic technologists, radiation therapists, or nuclear medicine technologists.**

Course work prepares the technologist to provide patient care and perform studies utilizing imaging equipment, professional communication, and quality assurance in scheduled and emergency procedures through academic and clinical studies.

Graduates may be eligible to sit for the American Registry of Radiologic Technologist Advanced-Level testing in Computed Tomography examination. They may find employment in facilities which perform these imaging procedures.

Computed Tomography Technology

Certificate - C45200

-Day

Fall Semester

CAT 211	CT Procedures	4
CAT 224	CT Clinical Practicum	4

Spring Semester

CAT 210	CT Physics and Equipment	3
CAT 226	CT Clinical Practicum	6
CAT 261	CT Exam Prep	1

Graduation Requirements..... 18 Credit Hours

*CAT 210, 211 and 261 taught totally online

*Clinical hours are scheduled during the day. Clinicals are usually

HEALTH SCIENCES

scheduled two days during the week. There *MAY* be some flexibility but must be coordinated through Ms. Pastor or Mr. Morris prior to school start date.

DENTAL ASSISTING

The Dental Assisting curriculum prepares individuals to assist the dentist in the delivery of dental treatment and to function as integral members of the dental team while performing chairside and related office and laboratory procedures.

The Dental Assisting Program at Wake Technical Community College is accredited by the American Dental Association and therefore a graduate is classified as a DA II by the North Carolina State Board of Dental Examiners. The student is eligible to take the Dental Assisting National Board Exam in order to be classified as a Certified Dental Assistant (CDA). As a Dental Assistant II (DAII), defined by the Dental Laws of North Carolina, graduates can perform identified expanded functions including coronal polishing.

Course work includes instruction in general studies, biomedical sciences, dental sciences, clinical sciences, and clinical practice. A combination of lecture, laboratory or pre-clinical, and clinical experiences provide the students with knowledge in infection/hazard control, radiography, dental materials, preventive dentistry, and clinical procedures. The students receive their hands-on patient care clinical experience with rotations at the UNC School of Dentistry, Wake County Human Services-Dental Clinic, Wake Smiles, and private general and specialty dental practices within Wake County.

Dental Assisting Diploma - D45240

-Day

First Semester

DEN 100	Basic Orofacial Anatomy	2
DEN 101	Preclinical Procedures.....	7
DEN 102	Dental Materials.....	4
DEN 111*	Infection/Hazard Control.....	2
BIO 106	Intro to Anatomy/Physiology/Micro.....	3
ENG 111	Writing and Inquiry.....	3

Second Semester

DEN 103	Dental Sciences	2
DEN 104	Dental Health Education.....	3
DEN 105	Practice Management	2
DEN 106	Clinical Practice I.....	6
DEN 112*	Dental Radiography.....	3
COM 120	Intro Interpersonal Communications	3

Summer Term

DEN 107	Clinical Practice II.....	5
PSY 118	Interpersonal Psychology	3

*Core course with Dental Hygiene.

Graduation Requirements48 Credit Hours

A grade of "C" or better is required for all curriculum courses in the Dental Assisting Diploma.

DENTAL HYGIENE

The Dental Hygiene curriculum provides individuals with the knowledge and skills to assess, plan, implement, and evaluate dental hygiene care for the individual and the community.

Students will learn to prepare the operator, take patient histories, note abnormalities, plan care, teach oral hygiene, clean teeth, take x-rays, apply preventive agents, complete necessary chart entries, and perform other procedures related to dental hygiene care.

Graduates of this program may be eligible to take national and state/regional examinations for licensure which are required to practice dental hygiene. Employment opportunities include dental offices, clinics, schools, public health agencies, industry, and professional education.

Dental Hygiene Degree - A45260

-Day

First Semester

BIO 163	Basic Anatomy and Physiology I.....	5
DEN 110	Orofacial Anatomy	3
DEN 111	Infection/Hazard Control	2
DEN 112	Dental Radiography	3
DEN 120	Dental Hygiene Preclinic Lecture	2
DEN 121	Dental Hygiene Preclinic Lab	2

Second Semester

BIO 175	General Microbiology.....	3
ENG 111	Writing and Inquiry.....	3
DEN 124	Periodontology.....	2
DEN 130	Dental Hygiene Theory I.....	2
DEN 131	Dental Hygiene Clinic I.....	3
DEN 223	Dental Pharmacology.....	2
DEN 224	Materials and Procedures	2

Summer Term

CHM 130	General, Organic and Biochemistry	3
COM 120	Interpersonal Communication	3
DEN 140	Dental Hygiene Theory II	1
DEN 141	Dental Hygiene Clinic II.....	2

Third Semester

PSY 150	General Psychology.....	3
DEN 123	Nutrition and Dental Health.....	2
DEN 125	Dental Office Emergencies	1
DEN 220	Dental Hygiene Theory III	2
DEN 221	Dental Hygiene Clinic III.....	4
DEN 222	General and Oral Pathology.....	2

Fourth Semester

DEN 230	Dental Hygiene Theory IV.....	1
DEN 231	Dental Hygiene Clinic IV	4
DEN 232	Community Dental Health	3
DEN 233	Professional Development	2
SOC 210	Introduction to Sociology.....	3
	Humanities/Fine Arts Elective	3

Graduation Requirements..... 73 Credit Hours

A grade of "C" or better is required for all curriculum courses in the Dental Hygiene Degree.

EMERGENCY MEDICAL SCIENCE

The Emergency Medical Science curriculum provides individuals with the knowledge, skills and attributes to provide advanced emergency medical care as a paramedic for critical and emergent patients who access the emergency medical system and prepares graduates to enter the workforce.

Students will gain complex knowledge, competency, and experience while employing evidence-based practice under medical oversight, and serve as a link from the scene into the healthcare system.

Graduates of this program may be eligible to take state and/or national certification examinations. Employment opportunities include providers of emergency medical services, fire departments, rescue agencies, hospital specialty areas, industry, educational and government agencies.

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Emergency Medical Science Degree - A45340

-Day

First Semester (First Fall)

EMS 110	EMT	8
BIO 163	Basic Anat & Physiology	5
MED 120	Survey of Med Terminology	2

Second Semester

EMS 122	EMS Clinical Practicum I	1
EMS 130	Pharmacology	4
EMS 131	Advanced Airway Management	2
EMS 160	Cardiology I	2
ENG 111*	Writing and Inquiry	3
MAT 110*	Math Measurement & Literacy	3

Summer Term (First Summer)

EMS 150	Emergency Vehicles & EMS Comm	2
EMS 220	Cardiology II	3
EMS 221	EMS Clinical Practicum II	2
EMS 250	Medical Emergencies	4

Third Semester (Second Fall)

EMS 125	EMS Instructor Methodology	2
EMS 231	EMS Clinical Pract III	3
EMS 260	Trauma Emergencies	2
EMS 270	Life Span Emergencies	3
ENG 112 [§]	Writing/Research in the Disc	3

Fourth Semester (Second Spring)

EMS 140	Rescue Scene Management	2
EMS 240	Patients W/ Special Challenges	2
EMS 241	EMS Clinical Practicum IV	4
EMS 285	EMS Capstone	2
PHI 240	Introduction to Ethics	3
PSY 150*	General Psychology	3

Graduation Requirements 70 Credit Hours

* College transfer courses

[§] Other 3-credit-hour English courses such as ENG-114 may be accepted with EMS Department Head approval.

* College Transfer Human Anatomy and Physiology Option: BIO-168* with BIO-169* may be substituted for BIO-163.

HEALTH AND FITNESS SCIENCE

The Health and Fitness Science program is designed to provide students with the knowledge and skills necessary for employment in the fitness and exercise industry.

Students will be trained in exercise science and be able to administer basic fitness tests and health risk appraisals, teach specific exercise and fitness classes and provide instruction in the proper use of exercise equipment and facilities.

Graduates should qualify for employment opportunities in commercial fitness clubs, YMCA's/YWCA's, wellness programs in business and industry, Parks & Recreation Departments and other organizations implementing exercise & fitness programs.

HEALTH AND FITNESS SCIENCE

- A45630

First Fall Semester

ACA 111	College Student Success	1
ENG 111	Writing and Inquiry	3
PSF 110	Exercise Science	4
BIO 168	Anatomy and Physiology I	4
PED 117	Weight Training I	1

* Other Major Hours (Choose from Pick List As Needed)

First Spring Semester

BIO 169	Anatomy and Physiology II	4
PSF 111	Fitness and Exer Testing I	4
PSF 116	Pvnt & Care Exer Injuries	3
PSF 120	Group Exer Instruction	3
PED 113	Aerobics I	1

* Other Major Hours (Choose from Pick List As Needed)

** Eligible to sit for ACSM Group Exercise Instructor

Certification Exam

Summer Session

PSY 150	General Psychology	3
COM 120	Intro to Interpersonal Communication	3
	OR	
COM 231	Public Speaking	3

* Other Major Hours (Choose from Pick List As Needed)

Second Fall Semester

PED 118	Weight Training II	1
PSF 210	Personal Training	3
PSF 118	Fitness Facility Management	4
HEA 112	First Aid & CPR	2
HUM 115	Critical Thinking	3
MAT 143	Quantitative Literacy	3
	OR	
MAT 171	Precalculus Algebra	4

* Other Major Hours (Choose from Pick List As Needed)

** Eligible to sit for ACSM Personal Trainer Certification Exam

Second Spring Semester

PSF 212	Exercise Programming	3
PSF 218	Lifestyle Chang & Wellness	4
WBL 111	Work Based Learning	1
BIO 155	Nutrition	3
PED 111	Physical Fitness I	1

* Other Major Hours (Choose from Pick List As Needed)

*Other Major Hours

BIO 110	Principles of Biology	4
PED 110	Fit and Well for Life	2
PED 119	Circuit Training	1
PED 121	Walk, Jog, Run	1
PED 122	Yoga I	1
PED 130	Tennis-Beginning	1
PED 217	Pilates I	1
HEA 110	Personal Health/Wellness	3
BUS 139	Entrepreneurship I	3

Graduation Requirements 68-70 Credit Hours

Health and Fitness Science Certificate

- C45630

Major Courses

PSF 110	Exercise Science	4
PSF 111	Fitness & Exercise Testing	4
PSF 210	Personal Training*	3
	OR	
PSF 120	Group Exercise Instruction*	3
PSF 212	Exercise Programming	3
PED 110	Fit and Well for Life	2

Graduation Requirements 16 Credit Hours

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HEALTHCARE SIMULATION TECHNOLOGY

This curriculum is designed to prepare individuals to teach, remediate, and evaluate healthcare providers using different forms of healthcare simulation. Course work includes the day-to-day operations of a multidisciplinary healthcare simulation lab. Students will learn how to operate low, mid, and high-fidelity simulation mannequins, various task trainers, audiovisual tools used in simulation, and managing standardized patient programs. Graduates of the Healthcare Simulation Technology program will be eligible for employment opportunities at hospitals, public and private educational institutions, emergency medical services agencies, and simulation centers. Qualifying graduates may be eligible for the national Certified Healthcare Simulation Educator exam.

Healthcare Simulation Technology – A45980 Associate Degree

-Hybrid

First Semester

SIM 110	Intro to Healthcare Sim Tech	6
SIM 120	Sim Tech Maintenance	4
BIO 163	Anatomy and Physiology	5

Second Semester

SIM 130	Simulation Pharmacology	4
SIM 140	Medical Equipment in Sim	3
SIM 150	Healthcare Simulation Lab I	2
SIM 160	Sim Program Fundamentals	4

Third Semester

COM 120	Intro to Interpersonal Communications	3
HUM/Fine Arts	Elective	3
ENG 111	Expository Writing	3

Fourth Semester

SIM 210	Environmental Designs in Sim	4
SIM 220	Healthcare Simulation Lab II	2
SIM 230	ALS Scenario Development	5
PSY 150	General Psychology	3

Fifth Semester

SIM 240	Peds, OB, and Specialty Simulators	5
SIM 250	Management Systems for Sim	4
SIM 260	Healthcare Simulation Lab III	2
SIM 270	Sim Capstone	4

Graduation Requirements 66 Credit Hours

*HUMANITIES/FINE ARTS ELECTIVE

Choose one from:

ART 111,114, 115

HUM 115

MUS 110,112

PHI 215,240

Successful completion of all courses requires a "C" or better.

Healthcare Simulation Technology – C45980 Certificate Degree for Trained Healthcare Providers

-Hybrid

The Certificate Program is open to well-qualified students currently serving in healthcare simulation with a recognized hospital, medical training facility, or EMS agency. Strong communication skills are preferred, along with a basic understanding of modern healthcare simulation.

Program Entry Requirements: Must meet at least one of the following criteria:

- Current holding an unencumbered certification or licensure in an assessment-based health science program. (consult academic advisors for approval)
- Successful completion of an assessment-based health science program of study.
- One year work experience in a high-fidelity simulation lab.

First Semester

SIM 110	Intro to Healthcare Sim Tech	6
SIM 120	Sim Tech Maintenance	4

Second Semester

SIM 150	Healthcare Simulation Lab I	2
SIM 210	Environmental Designs in SIM	4

Certificate Requirements 16 Semester Credit Hours

Successful completion of all courses requires a "C" or better

HUMAN SERVICES TECHNOLOGY

The Human Services Technology curriculum prepares students for entry-level positions in institutions and agencies that provide social, community, and educational services. Along with core courses, students take courses that prepare them for specialization in specific human service areas.

Students will take courses from a variety of disciplines. Emphasis in core courses is placed on development of relevant knowledge, skills, and attitudes in human services. Fieldwork experience will provide opportunities for application of knowledge and skills learned in the classroom.

Graduates should qualify for positions in mental health, child care, family services, social services, rehabilitation, correction, and educational agencies. Former graduates have successfully transferred into select 4-year colleges and universities.

Students may choose to complete more than one degree/concentration. Each degree requires a separate work-based learning experience.

Human Services Technology Degree - A45380

-Day, Evening

First Fall Semester

ENG 111	Writing and Inquiry	3
HSE 110	Introduction to Human Services	3
HSE 135	Orientation Lab I	1
HSE 112	Group Process I	2
PSY 150	General Psychology	3
SAB 110	Substance Abuse Overview	3

First Spring Semester

PSY 241	Developmental Psychology	3
ENG 114	Prof Research and Reporting	3
HSE 125	Counseling	3
HSE 210	Human Services Issues	2
HSE 123	Interviewing Techniques	3

First Summer Term

PHI 240	Introduction to Ethics	3
	OR	
HUM 115	Critical Thinking	3
CIS 111	Basic PC Literacy	2
SOC 213	Sociology of the Family	3
	OR	
SOC 210	Introduction to Sociology	3

Second Fall Semester

MAT 110	Math Measurement & Literacy	3
GRO 120	Gerontology	3

HEALTH SCIENCES

	❖ Major Elective.....	3
HSE 225	Crisis Intervention	3
HSE 245	Stress Management.....	3

Second Spring Semester

WBL 111	Work-Based Learning I	1
WBL 115	Work-Based Learning Seminar I.....	1
HSE 127	Conflict Resolution	3
SWK 113	Working with Diversity.....	3
HSE 220	Case Management.....	3
PSY 281	Abnormal Psychology	3

❖ Major Electives

Select 3 hours from the following courses

HSE 145	Child Abuse and Neglect.....	3
HSE 251	Activities Planning	3
SWK 110	Introduction to Social Work	3

Graduation Requirements 66 Credit Hours

WBL 111 & WBL 115 - *The semester prior to co-op consideration, students must meet with their faculty program advisor to obtain approval before registering for classes.

HUMAN SERVICES TECHNOLOGY / MENTAL HEALTH

The Human Services Technology/Mental Health concentration prepares students for job opportunities in the mental health field. The curriculum enables students to understand culturally and emotionally handicapped, developmentally disabled, or addicted clients through a variety of models and diagnoses.

Course work includes a history of the mental health movement, current developments and future trends, and theoretical models affecting individual development and behavior in a diverse client population. Fieldwork experiences provide opportunities for application of knowledge in agency and institutional settings.

Graduates should qualify for employment in mental health treatment centers serving a diverse multicultural client population in public and private settings. Graduates will work with individuals, families, groups, organizations, and communities in providing a therapeutic arena of care.

Human Services Technology / Mental Health – A4538C

-Day, Evening

First Fall Semester

ENG 111	Writing and Inquiry	3
HSE 112	Group Process I.....	2
HSE 110	Intro to Human Services.....	3
HSE 135	Orientation Lab I.....	1
PSY 150	General Psychology.....	3
SAB 110	Substance Abuse Overview.....	3

First Spring Semester

ENG 114	Prof Research & Reporting	3
HSE 123	Interviewing Techniques	3
HSE 125	Counseling	3
PSY 281	Abnormal Psychology	3
MHA 150	Mental Health Systems	3

First Summer Term

PHI 240	Introduction to Ethics.....	3
	OR	
HUM 115	Critical Thinking.....	2
CIS 111	Basic PC Literacy.....	2
SOC 213	Sociology of the Family.....	3
	OR	
SOC 210	Introduction to Sociology.....	3

Second Fall Semester

MAT 110	Math Measurement & Literacy	3
MHA 155	Psychological Assessment.....	3
HSE 225	Crisis Intervention.....	3
HSE 226	Intellectual Disabilities	3
PSY 265	Behavioral Modification	3

Second Spring Semester

WBL 111	Work-Based Learning.....	1
WBL 115	Work-Based Learning Seminar I	1
SWK 113	Working with Diversity	3
PSY 241	Developmental Psych.....	3
HSE 210	Human Services Issues.....	2
HSE 220	Case Management	3
MHA 240	Advocacy.....	2

Graduation Requirements 68 Credit Hours

WBL 111 & WBL 115 - * The semester prior to co-op consideration, students must meet with their faculty program advisor to obtain approval before registering for classes.

Human Services Technology/Mental Health Certificate – C4538C

Major Electives

HSE 110	Intro to Human Services.....	3
HSE 226	Intellectual Disabilities	3
MHA 155	Psychological Assessment	3
PSY 150	General Psychology	3
PSY 265	Behavior Modification	3
	OR	
HSE 225	Crisis Intervention	3

Graduation Requirements 18 Credit Hours

HUMAN SERVICES TECHNOLOGY / SUBSTANCE ABUSE

The Human Services Technology/Substance Abuse concentration prepares students to assist in drug and alcohol counseling, prevention-oriented educational activities, rehabilitation with recovering clients, managing community-based programs, counseling in residential facilities, and pursuit of four-year degrees.

Course work includes classroom and experiential activities oriented toward an overview of chemical dependency, psychological/sociological process, the twelve Core Functions, intervention techniques with individuals in groups, and follow-up activities with recovering clients.

Graduates should qualify for positions as substance abuse counselors, DUI counselors, halfway house workers, residential facility employees, and substance education specialists. With educational and clinical experiences, graduates can obtain certification by the North Carolina Substance Abuse Board.

Human Services Technology / Substance Abuse Degree - A4538E

-Day, Evening

First Fall Semester

HSE 135	Orientation Lab I.....	1
PSY 150	General Psychology	3
ENG 111	Writing and Inquiry.....	3
HSE 110	Introduction to Human Services	3
SAB 110	Substance Abuse Overview	3
HSE 112	Group Process I.....	2

First Spring Semester

ENG 114	Prof Research and Reporting	3
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HEALTH SCIENCES

HSE 125	Counseling	3
HSE 123	Interviewing Techniques	3
PSY 241	Developmental Psychology.....	3
SAB 210	Substance Abuse Counseling.....	3

First Summer Term

PHI 240	Introduction to Ethics.....	3
	OR	
HUM 115	Critical Thinking.....	3
CIS 111	Basic PC Literacy.....	2
SOC 213	Sociology of the Family.....	3
	OR	
SOC 210	Introduction to Sociology.....	3

Second Fall Semester

MAT 110	Math Measurement & literacy	3
SAB 135	Addictive Process.....	3
SAB 120	Intake and Assessment.....	3
HSE 225	Crisis Intervention	3
SAB 240	SAB Issues in Client Services.....	3

Second Spring Semester

SWK 113	Working with Diversity.....	3
WBL 111	Work-Based Learning I*	1
WBL 115	Work-Based Learning Seminar I*	1
SAB 125	SA Case Management.....	3
HSE 210	Human Services Issues	2
SAB 220	Group Techniques/Therapy	3
PSY 281	Abnormal Psychology	3

Graduation Requirements..... 69 Credit Hours

WBL 111 & WBL 115 - * The semester prior to co-op consideration, students must meet with their faculty program advisor to obtain approval before registering for classes.

Human Services Technology / Substance Abuse Counseling Certificate - C4538ECO

-Day, Evening

This Certificate is designed for individuals who already hold a bachelor or master's degree in a Human Services related field. The certificate **assists** students in **meeting all the SAB educational requirements** for Certification and/or Licensure for the North Carolina Substance Abuse Professional Practice Board (NCSAPPB).

Students who do not have an Associate's degree, Bachelor or Master's degree in a Human Service related field are not likely to obtain employment as a Substance Abuse Counselor with only the Substance Abuse Certificate.

HSE 112	Group Processes I	2
SAB 120	Intake and Assessment.....	3
SAB 135	Addictive Process.....	3
SAB 210	Substance Abuse Counseling	3
SAB 220	Group Techniques/Therapy.....	3
SAB 240	Substance Abuse Issues.....	3

Completion Requirements..... 17 Credit Hours

Human Services Technology / Substance Abuse Intervention Certificate - C4538EI

-Day, Evening

This Certificate is designed for individuals who already hold a bachelor or master's degree in a Human Services related field. The certificate **assists** students in **meeting all the SAB educational requirements** for Certification and/or Licensure for

the North Carolina Substance Abuse Professional Practice Board (NCSAPPB).

Students who do not have an Associate's degree, Bachelor or Master's degree in a Human Service related field are not likely to obtain employment as a Substance Abuse Counselor with only the Substance Abuse Certificate.

HSE 112	Group Processes I	2
SAB 120	Intake and Assessment.....	3
SAB 135	Addictive Process	3
SAB 210	Substance Abuse Counseling	3
SAB 240	Substance Abuse Issues.....	3
WBL 111	Work-Based Learning I*	1
WBL 115	Work-Based Learning Seminar*	1

Graduation Requirements..... 16 Semester Hours

WBL 111 & WBL 115 - * The semester prior to co-op consideration, students must meet with their faculty program advisor to obtain approval before registering for classes.

MAGNETIC RESONANCE IMAGING TECHNOLOGY

The Magnetic Resonance Imaging (MRI) curriculum prepares students to become MRI technologists and skilled health care professionals who are educated to use magnetic energy fields to produce images of the human body. Individuals entering this program must be registered or registry-eligible radiologic technologists, nuclear medicine technologists, sonographers, or radiation therapists by the American Registry of Radiologic Technologists. Supporting discipline of Nuclear Medicine Technology may be through ARRT or NMTCB. Supporting discipline of Sonography may be through AART or ARDMS.

Course work includes imaging fundamentals, MRI physics, procedures, anatomy, pathology, patient care, imaging ethics and law, in a medical environment. Students should be able to demonstrate all functional areas related to the magnetic resonance imaging fields.

Graduates may be eligible to take the American Registry of Radiologic Technologists (ARRT) national examination for certification as MRI technologists.

Graduates may be employed in hospitals, outpatient clinics, physicians' offices, government agencies, and research. It is essential that the MRI technologist understands ethical standards and the legal framework for MRI. In addition, the MRI technologist must be committed to professional development and the care of others.

Magnetic Resonance Imaging Technology Diploma - D45800

-Day

Summer Term

MRI 213	MR Patient Care and Safety.....	2
MRI 216	MRI Instrumentation.....	2
MRI 250	MRI Clinical Ed I	4
ENG 111	Writing and Inquiry	3
	Humanities/Fine Arts Elective	3

Fall Semester

MRI 214	MRI Procedures I.....	2
MRI 217	MRI Physics I.....	2
MRI 241	MRI Anatomy and Path I.....	2
MRI 260	MRI Clinical Ed II	7
IMG 130	Imaging Ethics and Law	3

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Spring Semester

MRI 215	MRI Procedures II	2
MRI 218	MRI Physics II	2
MRI 242	MRI Anatomy and Path II	2
MRI 270	MRI Clinical Ed III.....	8
MRI 271	MRI Capstone	1

Graduation Requirements 45 Credit Hours

MEDICAL ASSISTING

The Medical Assisting curriculum prepares multi-skilled health care professionals qualified to perform administrative, clinical, and laboratory procedures.

Course work includes instruction in scheduling appointments, coding and processing insurance accounts, billing, collections, computer operations; assisting with examinations/treatments, performing routine laboratory procedures, electro-cardiography, supervised medication administration; and ethical/legal issues associated with patient care.

The Medical Assisting Education Review Board (MAERB), an autonomous unit within the Endowment, evaluates medical assisting programs according to Standards adopted by the American Association of Medical Assistants (AAMA), the American Medical Association (AMA), and the Commission on Accreditation of Allied Health Education Programs (CAAHEP). The MAERB then recommends programs to CAAHEP for accreditation.

Graduates of CAAHEP accredited medical assisting diploma program may be eligible to sit for the American Association of Medical Assistants' Certification Examination, the CMA (AAMA) exam, to become Certified Medical Assistants. Employment opportunities include physicians' offices, health maintenance organizations, health departments, and outpatient clinics.

Medical Assisting Diploma - D45400

-Hybrid

First Semester

BIO 161	Intro to Human Biology.....	3
ENG 111	Writing and Inquiry	3
MAT 110	Math Measurement & Literacy	3
CIS 111	Basic PC Literacy	2
MED 110	Orientation to Medical Assisting	1
MED 118	Medical Law and Ethics.....	2
MED 121	Medical Terminology I.....	3
MED 130	Administrative Office Procedures I.....	2
MED 138	Infection/Hazard Control.....	2

First Semester

MED 122	Medical Terminology II.....	3
MED 131	Administrative Office Procedures II.....	2
MED 140	Examining Room Procedures I.....	5
MED 150	Laboratory Procedures I.....	5

Summer Term

MED 260	Medical Clinical Practicum	5
MED 264	Medical Assisting Overview	2
MED 274	Diet Therapy/Nutrition	3

Graduation Requirements46 Credit Hours

A grade of "C" or better is required for all curriculum courses in the Medical Assisting Diploma program of study.

Medical Assisting Degree - A45400

Students who have successfully completed the one-year Medical Assisting diploma can choose to continue their education by completing the Medical Assisting degree. The Medical Assisting associate degree completion program is designed for Medical

Assistants who desire an associate degree for career advancement or transfer purposes.

-Hybrid

Additional Courses Required for the Medical Assisting Degree – A45400

First Spring Semester

BIO 161	Intro to Human Biology	3
ENG 111	Writing and Inquiry	3
MAT 110	Math Measurement & Literacy.....	3
CIS 111	Basic PC Literacy	2
MED 110	Orientation to Medical Assisting	1
MED 118	Medical Law and Ethics.....	2
MED 121	Medical Terminology I.....	3
MED 130	Administrative Office Procedures I.....	2
MED 138	Infection/Hazard Control	2

First Spring Semester

MED 122	Medical Terminology II.....	3
MED 131	Administrative Office Procedures II	2
MED 140	Examining Room Procedures I.....	5
MED 150	Laboratory Procedures I	5

Summer Term

MED 260	Medical Clinical Practicum.....	5
MED 264	Medical Assisting Overview	2
MED 274	Diet Therapy/Nutrition.....	3

Total Diploma Requirements 47 Semester Credit Hours

Third Semester

MED 232	Medical Insurance Coding.....	2
MED 270	Symptomatology	3
MED 272	Drug Therapy	3
ENG/COM	Select one from.....	3
	ENG 114, ENG 112, COM 231, COM 120	

Fourth Semester

PSY/SOC	PSY 150 or SOC 210.....	3
SPA 120	Spanish for the Workplace	3
HUM/Fine Arts	Select one from	3
	HUM 110, HUM 115, HUM 160, or PHI 210	

Graduation Requirements 66 Credit Hours

A grade of "C" or better is required for all curriculum courses in the Medical Assisting Diploma program of study.

MEDICAL LABORATORY TECHNOLOGY

The Medical Laboratory Technology curriculum prepares individuals to perform clinical laboratory procedures in chemistry, hematology, microbiology, and immunohematology that may be used in the maintenance of health and diagnosis/treatment of disease.

Course work emphasizes mathematical and scientific concepts related to specimen collection, laboratory testing and procedures, quality assurance, and reporting/recording and interpreting findings involving tissues, blood, and body fluids.

Graduates may be eligible to take the examination given by the Board of Certification of the American Society for Clinical Pathology. Employment opportunities include laboratories in hospitals, medical offices, industry, and research facilities.

HEALTH SCIENCES

Medical Laboratory Technology Degree - A45420

-Day

First Semester

MLT 110	Introduction to MLT	3
MLT 118	Medical Lab Chemistry.....	3
MLT 140	Introduction to Microbiology	3
BIO 163	Basic Anatomy and Physiology.....	5
MLT 111	Urinalysis and Body Fluids.....	2
MLT 115	Laboratory Calculations	2

Second Semester

MLT 120	Hematology/Hemostasis I.....	4
MLT 130	Clinical Chemistry I.....	4
MLT 240	Special Clinical Microbiology.....	3
MLT 125	Immunohematology I.....	5

First Summer Semester

MAT 143	Quantitative Literacy	3
MLT 220	Hematology/Hemostasis II.....	3
MLT 254	MLT Practicum I.....	4

Third Semester

MLT 230	Clinical Chemistry II	3
MLT 280	Special Practice Lab	1
ENG 111	Writing and Inquiry	3
CIS 111	Basic PC Literacy.....	2
MLT 266	MLT Practicum II.....	6

Fourth Semester

*Humanities/Fine Arts Elective.....	3	
MLT 217	Professional Issues.....	1
MLT 276	MLT Practicum III.....	6
ENG 112	Writing/Research in the Disc.....	3
PSY 150	General Psychology.....	3

Graduation Requirements..... 75 Credit Hours

A grade of "C" or better must be earned in each curriculum courses in the Medical Laboratory Technology Program.

PHARMACY TECHNOLOGY

The Pharmacy Technology Program prepares individuals to become pharmacy technicians. These allied health professionals assist and support licensed pharmacists in providing prescription medications, over-the-counter drugs, medical equipment and supplies, pharmaceutical care services, and other health care products and services for patients.

Students will gain a broad knowledge of pharmacology, drug uses, actions, interactions and side effects, medication therapy, pharmaceutical calculations, anatomy and physiology, drug delivery systems, pharmacy practice, purchasing and inventory control and pharmacy law and regulations. Through simulated pharmacy laboratory activities, students will increase their skills in using pharmacy computer software, interpreting prescriptions, processing medication orders, compounding IV admixtures and parenteral nutrition, compounding pediatric medications, creating veterinary dosage forms, managing pharmacy operations, and utilizing critical thinking to resolve patient problems.

Through the clinical experience, students will increase knowledge and skills in creating and maintaining patient profiles, effectively participating on the health care team, filing insurance claims, managing automated medication dispensing systems, operating robotic pharmacy equipment, staffing patient care clinics, providing exceptional customer service, leading quality improvement programs, supervising and managing pharmacy technicians, and reconciling medications for ER patients. The clinical practice will take place in hospital, community and specialty pharmacies.

Graduates may be employed in hospitals, medical centers, private and chain pharmacies, and specialty pharmacies, including medication compounding, long term care medication therapy management, and IV infusion pharmacies. Graduates will be prepared to take the national Certification Examination administered by the Pharmacy Technician Certification Board.

Pharmacy Technology Diploma - D45580

Fall Semester

*ENG 111	Writing & Inquiring	3
*MAT 110	Mathematical Measurement & Literacy	3
PHM 110	Introduction to Pharmacy	3
PHM 111	Pharmacy Practice I.....	4
PHM 115	Pharmacy Calculations	3
PHM 115A	Pharmacy Calculations Lab.....	1

Spring Semester

PHM 118	Sterile Products	4
PHM 120	Pharmacology I.....	3
PHM 134	Pharmacy Clinical.....	4
PHM 140	Trends in Pharmacy.....	2
PHM 155	Community Pharmacy.....	3

Summer Term

PHM 125	Pharmacology II.....	3
PHM 132	Pharmacy Clinical.....	2
PHM 165	Pharmacy Prof Practice	2

Graduation Requirements..... 40 Credit Hours

*Courses may be taken before entering the program

Pharmacy Technology Degree - A45580

First Fall Semester

ENG 111	Writing & Inquiry	3
MAT 110	Mathematical Measurement & Literacy	3
PHM 110	Introduction to Pharmacy	3
PHM 111	Pharmacy Practice I.....	4
PHM 115	Pharmacy Calculations	3
PHM 115A	Pharmacy Calculations lab.....	1

First Spring Semester

PHM 118	Sterile Products	4
PHM 120	Pharmacology I.....	3
PHM 134	Pharmacy Clinical.....	4
PHM 140	Trends in Pharmacy.....	2
PHM 155	Community Pharmacy.....	3

Summer Term

PHM 125	Pharmacology II.....	3
PHM 132	Pharmacy Clinical.....	2
PHM 165	Pharmacy Prof Practice	2

Total Diploma Requirements.....40 Semester Credit Hours

Second Fall Semester

*CIS 111	Basic PC Literacy	2
*ENG 112	Writing/Research in the Disciplines.....	3
PHM 133	Pharmacy Clinical.....	3
PHM 150	Hospital Pharmacy.....	4

Second Spring Semester

PHM 135	Pharmacy Clinical.....	5
PHM 160	Pharm Dosage Forms.....	3
PSY 150	General Psychology.....	3
	OR	
PSY 118	Interpersonal Psychology.....	3
----	Humanities Elective	3

HEALTH SCIENCES

Graduation Requirements 67 Credit Hours

*Humanities elective: select one: HUM110, HUM 115, PHI 240

*Students must earn a "C" or better in all Gen Ed and PHM courses

*MAT 110 must have been taken within the last 5 years.

PHLEBOTOMY

The Phlebotomy curriculum prepares individuals to obtain blood and other specimens for the purpose of laboratory analysis.

Course work includes proper specimen collection and handling, communication skills, and maintaining patient data. Graduates may be eligible to take the examination given by Board of Certification of the American Society for Clinical Pathology.

Graduates may qualify for employment in hospitals, clinics, physicians' offices, and other health care settings and may be eligible for national certification as phlebotomy technicians.

The Phlebotomy program is a one semester program offered each Fall and Spring semester.

PHLEBOTOMY - C45600

-Day Only

First Semester

PBT 100	Phlebotomy Technology	6
PBT 101	Phlebotomy Practicum	3

Choose one of the following:

PSY 118	Interpersonal Psychology	3
PSY 150	General Psychology	3

Completion Requirements 12 Credit Hours

A grade of "C" or better is required in all curriculum courses in the Phlebotomy program.

RADIOGRAPHY

The Radiography curriculum prepares the graduate to be a radiographer, a skilled health care professional who uses radiation to produce images of the human body. The radiographer must be committed to professional development and the care of others.

Course work includes clinical rotations to area health care facilities, radiographic exposure, image processing, radiographic procedures, physics, pathology, patient care and management, radiation protection, quality assurance, anatomy and physiology, and radiobiology.

Graduates of accredited programs are eligible to apply to take the American Registry of Radiologic Technologists' national examination for certification and registration as medical radiographers. Graduates may be employed in hospitals, clinics, physicians' offices, medical laboratories, government agencies, and industry.

Radiography Degree - A45700

-Day

First Semester

RAD 110	RAD Intro & Patient Care	3
RAD 111	RAD Procedures I	4
BIO 163	Basic Anatomy and Physiology	5
ENG 111	Writing and Inquiry	3
RAD 151	RAD Clinical Ed I	2

Second Semester

RAD 112	RAD Procedures II	4
RAD 121	Image Production I	3
MAT 143	Quantitative Literacy	3

ENG 112	Writing/Research in the Disc	3
RAD 161	RAD Clinical Ed II	5

Summer Term

RAD 122	Image Production II	2
RAD 141	Radiation Safety	2
RAD 171	RAD Clinical Ed III	3

Third Semester

RAD 211	RAD Procedures III	3
RAD 231	Image Production III	2
RAD 241	Radiobiology/Protection	2
PSY 150	General Psychology	3
RAD 251	RAD Clinical Ed IV	7

Fourth Semester

RAD 261	RAD Clinical Ed V	7
RAD 271	Radiography Capstone	3
HUM 115	Critical Thinking	3

Graduation Requirements: 70 Credit Hours

*Demonstrate chemistry proficiency. The chemistry proficiency requirement may be satisfied by completing ONE of the following: a college-level basic chemistry course from a U.S. regionally-accredited institution with a grade of "C" or better, or one unit of a high school chemistry course with a grade of "C" or better, or CHM 090 (Chemistry concepts) or an equivalent CHM 090 with a grade of "C" or better, or the self-taught chemistry tutorial unit in the Individualized Learning Center with a grade of 85 or higher. Completion of BIO 163 (or a transfer equivalent class) with a grade of "C" or better.

THERAPEUTIC MASSAGE

The Therapeutic Massage curriculum prepares graduates to work in direct client care settings to provide manipulation, methodical pressure, friction and kneading of the body for maintaining wellness or treating alterations in wellness throughout the lifespan.

Courses will include content in normal human anatomy and physiology, therapeutic massage, ethical/legal issues, business practices, nutrition and psychology.

Employment opportunities in North Carolina may be found in hospitals, rehabilitation centers, health departments, home health, medical offices, nursing homes, spas, health and sports clubs, and private practice. Graduates may be eligible to take the Massage and Bodywork Licensing Exam, and apply for Licensure in North Carolina.

Therapeutic Massage Diploma - D45750

-Day

First Semester

MTH 110	Fundamentals of Massage	10
ACA 111	College Student Success	1
*BIO 163	Basic Anatomy and Physiology	5

Second Semester

*BIO 155	Nutrition	3
MTH 120	Therapeutic Massage Applications	10
MTH 121	Clinical Supplement I	1
MTH 130	Therapeutic Massage Management	2

Summer Term

MTH 125	Ethics of Massage	2
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General Education Required (Transfer Credit May Apply)

*ENG 111	Writing and Inquiry	3
*PSY 118	Interpersonal Psychology	3
	OR	
*PSY 150	General Psychology	3

HEALTH SCIENCES

Graduation Requirements 40 Credit Hours

- ❖ ACA 111 is a co-requisite to MTH 110; students must register for ACA 111 section restricted to MTH [D45750]
- ❖ BIO 163 must be completed either before or concurrently with MTH 110. Students may not progress to MTH 120 without successful completion of BIO 163.
- ❖ Transfer credit may be awarded by review of transcripts.
- ❖ Transfer credit for BIO 271 Pathophysiology may be substituted for BIO 155.

* Coursework other than MTH may be completed prior to entry into the program.