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

**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**

- **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 Requirements.........................................**

**- 48 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 operatory, 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**

- **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 ....................... 2
  - 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.
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

* 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

** Eligible to sit for ACSM Group Exercise Instructor Certification Exam

Summer Session
PSY 150 General Psychology ...................................... 3
COM 120 Intro to Intercultural Communication ............ 3

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

Graduation Requirements .......................... 68-70 Credit Hours

**Eligible to sit for ACSM Personal Trainer Certification Exam

Health and Fitness Science Certificate - C45630

Major Courses
PSF 110 Exercise Science .......................................... 4
PSF 111 Fitness & Exercise Testing .............................. 4
PSF 210 Personal Training* .................................. 3

* 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 .......................... 1
BUS 139 Entrepreneurship I .................................... 3

Graduation Requirements .......................... 16 Credit Hours

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, YMCAs/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

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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

First Spring Semester
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

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 / 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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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 220 Group Techniques/Therapy .............................. 3
SAB 240 Substance Abuse Issues .................................. 3

Completion Requirements .......................................... 17 Credit Hours

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 MRI 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
HEALTH SCIENCES

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 Exam, 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 Requirements .......................... 46 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 280 Medical Clinical Practicum ............................... 5
MED 264 Medical Assisting Overview ............................. 2
MED 274 Diet Therapy/Nutrition .................................... 3

Graduation Requirements .......................... 46 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.
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 153 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 112 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 ................................ 3
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 ................................ 3
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 ........... 5
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
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

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, methodological 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

General Education Required
(Transfer Credit May Apply)
*ENG 111 Writing and Inquiry .................................... 3
*PSY 118 Interpersonal Psychology ............................. 3
OR
*PSY 150 General Psychology .................................... 3
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.