

HEALTH STUDIES - NEURODIAGNOSTIC TECHNOLOGY, ASSOCIATE IN APPLIED SCIENCE (HSNT)

Effective: Fall 2015
Closed: Summer 2023

Note: This program is not currently accepting new students.

The Delaware County Community College/Crozer Chester Medical Center Health Studies - Neurodiagnostic Technology Program (HSNT) is designed for individuals seeking a career as a Neurodiagnostic Technologist. Through classroom and clinical experiences, students will receive the instruction necessary to perform Neurodiagnostic Technology (NDT) procedures which are essential for the clinical investigation of many neurological, neurosurgical and sleep disorders. These disorders include: epilepsy, brain injury, stroke, headache, brain tumor, "brain death," insomnia, excessive daytime sleepiness, sleep apnea, narcolepsy and spinal cord and nerve dysfunction. Students will gain the technical skills necessary to operate sophisticated NDT equipment in a variety of settings including operating rooms and intensive care units. The Neurodiagnostic Technology Program is accredited by the Commission on Accreditation of the Allied Health Education Program (CAAHEP).

An Associate in Applied Science will be awarded upon completion of the program with a 2.0 GPA and a "C" or better in all Allied Health, Emergency Services and Nursing (AHESN) courses.

An information packet outlining the admission process for the HSNT program can be obtained in Admissions and the Allied Health, Emergency Services and Nursing (AHESN) office. Prospective students are also encouraged to attend an information session. Please check the DCCC website for session dates and times.

BACKGROUND CHECKS AND CRIMINAL CONVICTIONS

A student who has been convicted of a prohibitive offense contained in Act 13 and /or Act 169 may not be able to complete their studies because clinical experiences needed for course/program success may be prohibited. If student cannot complete his/her clinical studies, he/she will not be accepted into the HSNT program. A detailed list is available for review in the AHESN office. All HSNT applicants are required provide a Criminal History Record Information Report, Federal Criminal History Report (FBI) and a Child Abuse Clearance prior to admission. Students must be free of prohibitive offense convictions. Specific guidelines as to how to obtain, store and submit background clearances and reports is contained in the Neurodiagnostic Technology Program information packet.

ADMISSION STANDARDS

To be considered for the HSNT program, an applicant must meet one of the following standards: 1. DCCC College placement test (remediation must be completed prior to applying to the program) and Health Occupations Basic Entrance Test "HOBET" (Composite Total: 50%, Reading: 54%, Science: 33%, Math: 46% and English: 46% or 2. Previous Associate, Bachelor's or higher degree.

Please refer to the HSNT admission procedures packet (available in the AHESN office) for detailed information concerning the admission process. Seating for this program is limited. Depending on the number of applicants, students may be ranked for placement into the program.

HEALTH SCREENING, CPR AND HEALTH INSURANCE

Prior to beginning the Neurodiagnostic Technology Practicum I (NDT 101), all accepted students must have on file the results of a complete physical examination. This will include: a complete blood count, documented seasonal influenza vaccine, compliance with recommendations for the Hepatitis B vaccine, Measles (Rubeola), Mumps, Rubella (German Measles), Varicella (Chicken pox), Tdap (Tetanus, Diphtheria and Pertussis), documentation of a two-step Matoux PPD (must be current within one year of start date) and a 10-panel urine drug screen. Additionally, students must provide documentation of medical insurance and full CPR certification. Students must submit a photocopy (both sides) of the CPR Certification Card. Acceptable CPR courses are the Health Care Provider (American Heart Association) or the Course for the Professional (American Red Cross). These are both renewable every two years.

SKILLS

Certain manual dexterity and sensory abilities, that will enable the student to competently perform the required technical skills, are necessary for successful completion of the HSNT program. A detailed list is available in the AHESN office and will be reviewed with each student upon acceptance to the program. Health problems that can interfere with the applicant's ability to meet program competencies are considered on an individual basis.

PROGRAM GUIDELINES

Students must achieve a "C" or better in BIO 150 Human Anatomy and Physiology I, BIO 151 Human Anatomy and Physiology II and in each program required NDT course. Students may be removed from the program for violation of patient safety, confidentiality, or behavior incompatible with acceptable standards pending outcome of appeal process. Information can be found in the DCCC Student Handbook and the HSNT Program policy and procedure manual. Selected clinical practicums will be provided under the supervision of the HSNT program faculty. These are learning experiences for which the student receives no monetary remuneration or other reimbursement.

ADDITIONAL EXPENSES

In addition to normal tuition and fees. HSNT students are required to purchase books, uniforms, Neurodiagnostic Society student membership and miscellaneous supplies. The students are also responsible for commuting and/or parking expenses to reach clinical rotations and classes.

CERTIFICATIONS

The Neurodiagnostic Technology Program is accredited as the Crozer-Chester Medical Center School of Clinical Neurophysiology by the Commission on Accreditation of the Allied Health Education Program (www.CAAHEP.org (<http://www.CAAHEP.org>)). After the first six months of enrollment, the students are eligible to take Part I of the Electroencephalographic Written Exam (R.EEG.T). Sitting for Part I of this exam is a requirement of the program and should be scheduled prior to the final semester. HSNT program graduates, who successfully pass Part II of the exam, will be awarded the R. EEG.T credential. Graduates are

immediately eligible to apply for registration in Evoked Potential (R.E.P.T). After employment in a field of advanced monitoring, technologists who hold the R. EEG.T. credential, can become certified in Long Term Monitoring (CLTM) or Neurophysiologic Intraoperative Monitoring (CNIM).

This program requires a special process for admission. Check with Admissions (<https://www.dccc.edu/admissions-financial-aid/admissions/special-application-procedures/>) to submit additional materials and/or follow procedures for admission.

Program Outcomes

- Demonstrate competence in obtaining standard and specialized electroencephalogram (EEG) studies.
- Demonstrate competence in performing polysomnogram (PSG) studies.
- Comply with professional ethics, maintain patient safety and confidentiality.
- Demonstrate knowledge of Neurodiagnostic Technology (NDT) equipment and instrumentation.
- Comply with recommended electrode application and removal techniques.
- Clinically correlate Neurodiagnostic Technology studies to neurological disorders and anatomy.
- Demonstrate effective communication skills for the health care environment.
- Recognize how political, cultural and socio-economic forces impact the health care system.
- Demonstrate basic math skills needed for Neurodiagnostic Technology testing procedures.

Curriculum

First Semester		Hours
NDT 100	Foundations of Neurodiagnostic Technology	3
NDT 101	Neurodiagnostic Technology Practicum I	7
ENG 100	English Composition I	3
BIO 150	Human Anatomy and Physiology I	4
Hours		17
Second Semester		Hours
NDT 102	Neuroanatomy and Physiology of the Nervous System	3
NDT 103	Neurodiagnostic Technology Principles and Practicum II	8
BIO 151	Human Anatomy and Physiology II	4
MAT 120 or MAT 121	Modern College Mathematics or Introduction to Probability and Statistics	3
Hours		18
Third Semester		Hours
NDT 104	Neurodiagnostic Technology Practicum III	3
Hours		3
Fourth Semester		Hours
NDT 105	Neurodiagnostic Technology Practicum IV	3
Any Oral Communication designated course		3
Hours		6
Fifth Semester		Hours
NDT 200	Neurological Disorders	3
NDT 201	Neurodiagnostic Technology Practicum V	8
DPR 100		3
Hours		14
Sixth Semester		Hours
NDT 202	Neurodiagnostic Technology Practicum VI	8
AHA 207	Ethical/Legal Aspects of Health Care Management	3

Any Global Understandings AND Diversity and Social Justice designated course	3
Hours	14
Total Hours	72

Notes

Oral Communication designated courses (https://catalog.dccc.edu/academic-programs/college-academic-learning-goals/#OC_Course_List).

Global Understanding and Diversity and Social Justice designated courses (https://catalog.dccc.edu/academic-programs/college-academic-learning-goals/#Dual_DJ_GU_CourseList).

Accreditation

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Commission on Accreditation of Allied Health Education Programs
25400 US Highway 19 N., Suite 158
Clearwater, FL 33763
727-210-2350
www.caahep.org (<http://www.caahep.org>)