



Neurodiagnostic Technology C.A.

Career Community: Health and Human Service Careers

Curriculum Code: 1808

Effective: Fall 2024 – Summer 2025

Description

This certificate is designed only for hospital-based training with an approved health care provider. Neurodiagnostic Technology is the medical diagnostic field devoted to the recording and study of electrical activity in the brain and nervous system. Neurodiagnostic Technologists (EDT) are highly skilled professionals trained to perform electroencephalograms (EEGs) in medical facilities and outpatient centers under the direct supervision of a health care provider. The EEG program is designed not only to foster the skills and knowledge necessary for competent practice, but also places emphasis on professional attitudes, values and behaviors that encourage the professional growth of the individual student.

Clinical learning experiences are provided by affiliating hospitals, clinics and other outpatient facilities. Didactic learning experiences occur in supportive college course work delivered through an online environment and laboratory practice. Both are equally important to the development of the competent Neurodiagnostic Technologist.

Courses in this program are offered through the Michigan Workforce Training and Education Collaborative, and are taught by various colleges in the Michigan Educational Programs in Collaboration (MI-EPiC) Consortium.

Milestone

Completion of NDXT 120, NDXT 132, and NDXT 200 with a 2.5 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

Additional Information

The Neurodiagnostic Technology Program has been developed by the EPiC Consortium, following the Commission on Accreditation of Allied Health Education Programs' (CAAHEP) Standards and Guidelines for the Accreditation of Educational Programs in Neurodiagnostic Technology. As a member of the EPiC Consortium, Lansing Community College's Neurodiagnostic Technology (EEG) program is CAAHEP accredited. Upon successful completion of the EEG program, graduates will be eligible to take the American Board of Registration in Electroencephalographic (ABRET) exam. Upon passing the ABRET exam, Neurodiagnostic Technologists have earned their R.EEG T.

First semester NDXT courses require Program Approval. Students who are not part of a hospital-based training program must follow the Neurodiagnostic Technology A.A.S. curriculum (#1812). All NDXT courses must be completed with a minimum 2.5 grade to continue in the

program and receive this certificate. Students may not progress to the next semester until they have successfully completed all of the courses in the previous sequenced semester.

Contact Information

For further information, including career options, course substitutions and waivers, etc., contact the Health and Human Services Division, Health and Human Services Building, Room 108, telephone number 517-483-1410, or the Academic Advising Department, Gannon Building – StarZone, telephone number 517-483-1904.

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
NDXT 100	Neuroanatomy and Physiology	3 / 0*
NDXT 101	Neurodiagnostic Procedures	3 / 0*
NDXT 102	EEG Applications	3 / 0*
NDXT 120	EEG Pre-Clinical Preparation	3 / 0*
NDXT 130	Principles of EEG	2 / 0*
NDXT 131	Electricity Principles/Safety	1 / 0*
NDXT 132	EEG Instrumentation I	2 / 0*
NDXT 200	EEG Procedures & Pathology I	1 / 0*
NDXT 201	EEG Instrumentation II	2 / 0*
NDXT 202	EEG Quality Control	1 / 0*
NDXT 220	EEG Clinical Practice I	3 / 0*
NDXT 221	EEG Clinical Practice II	3 / 0*
NDXT 230	EEG Procedures & Pathology II	1 / 0*
NDXT 231	EEG Procedures & Pathology III	1 / 0*
NDXT 232	EEG Procedures & Pathology IV	1 / 0*

Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 30-credit minimum required for a Certificate of Achievement may select any course(s) needed to reach 30 credits, except those courses noted in number 7 in the [Institutional Requirements for Certificates of Achievement](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

Minimum Total Credit Hours

30 credits / 0 billing hours*

*NDXT courses follow the Michigan Workforce Training and Education Collaborative tuition rates, and are not included in billing hours. Please contact the Medical Imaging Program at 517-483-1410 for current tuition rates.

Recommended Course Sequence

Semester I (Fall)
NDXT 100
NDXT 101
NDXT 102
NDXT 120 – Milestone course

Semester II (Spring)
NDXT 130
NDXT 131
NDXT 132 – Milestone course
NDXT 200 – Milestone course
NDXT 201
NDXT 202
NDXT 220

Semester III (Summer)
NDXT 221
NDXT 230
NDXT 231
NDXT 232

LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree title changes, and make course changes as needed, without prior notice.