



Neurodiagnostic Technology C.A.

Career Community: Health and Human Service Careers

Curriculum Code: 1808

Effective: Fall 2023 – Summer 2024

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 (EEG's) 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* |

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

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| 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 |

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| Semester II (Spring) |
| NDXT 201 |
| NDXT 202 |
| NDXT 220 |

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| 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.