



Neurodiagnostic Technology A.A.S.

Curriculum Code: 1812

Effective: Fall 2019 – Summer 2021

Description

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 not only is designed 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. The Neurodiagnostic Technology Program has been developed to be consistent with standards and requirements of the Commission on Accreditation of Allied Health Education Programs (CAAHEP). Upon 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 Registered Electroencephalographic Technologist (R.EEG T) Certification.

Courses in this program are offered through the Michigan Community College Association/ Michigan Colleges Online, and taught by various colleges in the Michigan Radiologic and Imaging Science Consortium (MiRIS).

Additional Information

All courses listed in Semester I and II must be completed before beginning the NDXT courses. Courses in semesters I and II must be completed with a minimum 2.0 grade, with the exception of the Communication Core which must be completed with a minimum 2.5 grade. 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.

30 general credits may be awarded for a current Registered Electroencephalographic Technologist (R.EEG T) Certification. For information regarding Licensure and Certification credit go to LCC Student Records – Catalog Information.

Contact Information

Contact the Medical Imaging Program, 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.

General Education Core Courses, Recommended Choices

(For the full list of options, see [General Education Core Courses](#))

- Communication – *Select one*
 COMM 110, Communication in the Workplace, 3 credits / 3 billing hours
 COMM 120, Dynamics of Communication, 3 credits / 3 billing hours
 COMM 130, Fund of Public Speaking, 3 credits / 3 billing hours

- Global Perspective and Diversity – *Select one, ANTH 271 is preferred*
 ANTH 271, Medical Anthropology, 3 credits / 3 billing hours
 SOCL 120, Introduction to Sociology, 4 credits / 4 billing hours

- Math
 Program of Study Required Courses for Admission will meet this requirement

- Science
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- Writing – *Select one*
 ENGL 121, Composition I, 4 credits / 4 billing hours
 ENGL 122, Composition II, 4 credits / 4 billing hours
 ENGL 131, Honors Composition I, 4 credits / 4 billing hours

Program of Study Required Courses for Admission

Course Code	Course Title	Credit / Billing Hours
BIOL 145	Intro Anatomy and Physiology	4 / 6
CHSE 117	Health Law and Ethics	2 / 2
CHSE 120	Medical Terminology	4 / 4
MATH 119	Math – Applications for Living	4 / 4
PFHW 163	Healthy Lifestyles	2 / 3
PSYC 200	Intro to Psychology	4 / 4

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*

Course Code	Course Title	Credit / Billing Hours
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*

Total Credit Hours

60-61 credits / 33-34 billing hours*

*NDXT courses follow the Michigan Colleges Online tuition rates, and are not included in billing hours. Current MCO tuition rates may be found at [Michigan Colleges Online - Courses](#).

Recommended Course Sequence

Semester I (Fall)	Semester II (Spring)
CHSE 117 MATH 119 PFHW 163 PSYC 200 Writing Core	BIOL 145 CHSE 120 Communication Core Global Perspectives and Diversity Core

Semester III (Fall)	Semester IV (Spring)
NDXT 100 NDXT 101 NDXT 102 NDXT 120	NDXT 130 NDXT 131 NDXT 132 NDXT 200 NDXT 201 NDXT 202 NDXT 220

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