



Neurodiagnostic Technology A.A.S.

Curriculum Code: 1812

Effective: Fall 2020 – Summer 2022

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 English Composition (second course)/Communications or Applied Communications General Education requirement 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 degree. 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 [Transfer Equivalencies – Licensure and Certification](#).

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 – Applied Degrees, Recommended Choices

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

- English Composition – *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
- English Composition (second course)/Communications or Applied Communications Program of Study Required Courses for Admission will meet this requirement.
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences Program of Study Required Courses for Admission will meet this requirement.
- Mathematics or Applied Mathematics Program of Study Required Courses for Admission will meet this requirement.
- Natural Sciences Lab or Applied Science and Technology Lab Program of Study Required Courses for Admission will meet this requirement.

Program of Study Required Courses for Admission – English Composition

(second course)/Communications – *Select one. This selection also satisfies the General Education English Composition (second course)/Communications or Applied Communications requirement.*

Course Code	Course Title	Credit / Billing Hours
COMM 110	Communication in the Workplace	3 / 3
COMM 120	Dynamics of Communication	3 / 3
COMM 130	Fundamentals Public Speaking	3 / 3

Program of Study Required Courses for Admission – Natural Sciences

– *Select one. This selection also satisfies the General Education Natural Sciences Lab or Applied Science and Technology Lab requirement.*

Course Code	Course Title	Credit / Billing Hours
BIOL 145	Intro Anatomy and Physiology	4 / 6
BIOL 201 and 202	Human Anatomy and Human Physiology	8 / 11

Program of Study Required Courses for Admission

Course Code	Course Title	Credit / Billing Hours
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 for Admission, Limited Choice - *Select courses if needed to reach the minimum of 60 credits required for this degree.*

Course Code	Course Title	Credit / Billing Hours
ANTH 271	Medical Anthropology	3 / 3
PFFT or PFWT XXX	Activity courses	1-2 / 2-3 (3 credit max)

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*

Total Credit Hours

60-61 credits / 33-35 billing hours*

*NDXT courses follow the Michigan Community College Association/Michigan Colleges Online 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)	Semester II (Spring)
Gen Ed - English Composition MATH 119 PFHW 163 PSYC 200	BIOL 145 or (BIOL 201 and BIOL 202) CHSE 117 CHSE 120 COMM 110 or 120, or 130

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

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