Associate in Applied Science in Neurodiagnostic Technology (EEG)

Program Overview

Upon completion of this degree, students will earn an A.A.S degree from Southwestern Michigan College and be eligible to sit for the national registry board exams. A passing score will earn them the designation of R. EEG T.

To Learn More About This Program

Contact the Academic Advising and Resource Center at 269-782-1303 or askanadvisor@swmich.edu.

Degree Requirements

To earn this degree, students must have an overall GPA of 2.0 or higher, complete a minimum of 60 credit hours, and fulfill the course requirements of the program listed below. Students are permitted to complete a higher-level math course than shown below. Each general education course, prerequisite course, internship, and capstone course must be completed with a final grade of C or better (BIOL 214 with a grade of B- or better).

Course Offerings

This program is part of EPiC (Educational Programs in Collaboration). Students pursuing an Associate in Applied Science in Neurodiagnostic Technology (EEG) may complete general education courses, EDUC 120, and HEED 101 through SMC either on-campus or online, if offered. All NDXT courses are completed online through EPiC and a partner institution. All NDXT courses are charged at a per credit hour rate established by EPiC. This rate differs from the Southwestern Michigan College tuition rate.

General Education Courses

COMMUNICATIONS

Course ID	Course	Credits
ENGL 103 or ENGL 103W	Freshman English 2 (or with workshop)	3 to 4 credits

MATHEMATICS

Course ID	Course	Credits
MATH 127	College Algebra	4 credits

NATURAL SCIENCE

Course ID	Course	Credits
BIOL 214	Basic Human Anatomy (min grade of B- required)	4 credits
BIOL 215	Principles of Human Physiology	4 credits
CHEM 100	Fundamentals of Chemistry	4 credits

SOCIAL SCIENCE

Course ID	Course	Credits
PSYC 101	General Psychology	3 credits
SOCI 201	Principles of Sociology	3 credits

HUMANITIES

Course ID	Course	Credits
PHIL 210	Introduction to Ethics	4 credits

Major-Specific Required Courses

Course ID	Course	Credits
EDUC 120	Educational Exploration and Planning	1 credit
HEED 101	Medical Terminology	3 credits
NDXT 100	Neuroanatomy and Physiology	3 credits
NDXT 101	Introduction to Neurodiagnostic Procedures	3 credits
NDXT 102	EEG Applications	3 credits
NDXT 120	EEG Pre-Clinical Preparation	3 credits
NDXT 130	Principles of EEG	2 credits
NDXT 131	Principles of Electricity and Electrical Safety	1 credit
NDXT 132	EEG Instrumentation 1	2 credits
NDXT 200	EEG Procedures and Pathology 1	1 credit
NDXT 201	EEG Instrumentation 2	2 credits
NDXT 202	EEG Quality Control	1 credit
NDXT 220	EEG Clinical Practice 1	3 credits
NDXT 221	EEG Clinical Practice 2	3 credits
NDXT 230	EEG Procedures and Pathology 2	1 credit
NDXT 231	EEG Procedures and Pathology 3	1 credit
NDXT 232	EEG Procedures and Pathology 4	1 credit

Total Program Credits: 63

Additional Notes About the A.A.S. in Neurodiagnostic Technology (EEG) Program

- This program is a collaborative partnership between SMC and EPiC.
- This is a very competitive program in which students must satisfy general education requirements before being accepted into the online portion of the program (year two through EPiC). Students who are not accepted into year two may have other options to complete a health-related SMC degree program.
- A prerequisite course may be needed prior to enrollment in some courses within this program. Specific prerequisite requirements are listed in the Course Description section in the Course Catalog. A summary of the prerequisites is listed below in the Example Course Sequence.
- This program as outlined does not meet MTA requirements. Students would need another communication course and one humanities course. If interested in the MTA, students should seek help from an advisor for course selection.
- Courses taken out of sequence may delay a student's ability to complete the program in a timely manner. Please consult your advisor regularly.
- Each student should submit a graduation application at least one full semester before they plan to graduate.
- This program is subject to change. Students should consult with their advisor for program updates.

Example Course Sequence

The following is a sample of a semester-by-semester approach to completing this program.

FIRST SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of C Required)
EDUC 120 Educational Exploration and Planning	1 credit	ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or test score (concurrent enrollment in ENGL 115 allowed)
ENGL 103 or 103W Freshman English 2 (or with workshop)	3 to 4 credits	ENGL 103W: Test score ENGL 103: ENGL 115 or test score (concurrent enrollment allowed)
CHEM 100 Fundamentals of Chemistry	4 credits	MATH 101, MATH 102, or test score (concurrent enrollment allowed); ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or test score (concurrent enrollment in ENGL 115 allowed)
BIOL 214 Basic Human Anatomy	4 credits	BIOL 101, BIOL 110, BIOL 202, BISC 111, or one year of high school biology with minimum grade of B- taken within the last 5 years, or test score
PSYC 101 General Psychology	3 credits	ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or test score (concurrent enrollment in ENGL 115 allowed)

SECOND SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of C Required)
SOCI 201 Principles of Sociology	3 credits	ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or test score (concurrent enrollment in ENGL 115 allowed)
BIOL 215 Principles of Human Physiology	4 credits	BIOL 214; CHEM 100, or one year of high school chemistry with minimum grade of B taken within the last 5 years, or test score
MATH 127 College Algebra	4 credits	MATH 101 or test score
HEED 101 Medical Terminology	3 credits	ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or test score (concurrent enrollment in ENGL 115 allowed)
PHIL 210 Introduction to Ethics	4 credits	ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or test score (concurrent enrollment in ENGL 115 allowed)

FALL SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of C Required)
NDXT 100 Neuroanatomy and Physiology	3 credits	Admission to the EEG program required
NDXT 101 Introduction to Neurodiagnostic Procedures	3 credits	Admission to the EEG program required
NDXT 102 EEG Applications	3 credits	Admission to the EEG program required
NDXT 120 EEG Pre-Clinical Preparation	3 credits	Admission to the EEG program required

Example Course Sequence Continued for A.A.S. in Neurodiagnostic Technology (EEG) Program

SPRING SEMESTER (1ST 8 Weeks)

Courses	Credits	Prerequisites (Minimum Grade of C Required)
NDXT 130 Principles of EEG	2 credits	NDXT 100, NDXT 101, NDXT 102, and NDXT 120
NDXT 131 Principles of Electricity and Electrical Safety	1 credit	NDXT 100, NDXT 101, NDXT 102, and NDXT 120
NDXT 132 EEG Instrumentation 1	2 credits	NDXT 100, NDXT 101, NDXT 102, and NDXT 120
NDXT 220 EEG Clinical Practice 1	3 credits	NDXT 100, NDXT 101, NDXT 102, and NDXT 120

SPRING SEMESTER (2ND 8 Weeks)

Courses	Credits	Prerequisites (Minimum Grade of C Required)
NDXT 200 EEG Procedures and Pathology 1	1 credit	NDXT 100, NDXT 101, NDXT 102, and NDXT 120
NDXT 201 EEG Instrumentation 2	2 credits	NDXT 100, NDXT 101, NDXT 102, and NDXT 120
NDXT 202 EEG Quality Control	1 credit	NDXT 100, NDXT 101, NDXT 102, and NDXT 120
NDXT 220 EEG Clinical Practice 1 (continued)	3 credits	NDXT 100, NDXT 101, NDXT 102, and NDXT 120

SUMMER SEMESTER (1ST 6 Weeks)

Courses	Credits	Prerequisites (Minimum Grade of C Required)
NDXT 230 EEG Procedures and Pathology 2	1 credit	NDXT 130, NDXT 131, NDXT 132, NDXT 200, NDXT 201, NDXT 202, and NDXT 220
NDXT 231 EEG Procedures and Pathology 3	1 credit	NDXT 130, NDXT 131, NDXT 132, NDXT 200, NDXT 201, NDXT 202, and NDXT 220
NDXT 221 EEG Clinical Practice 2	3 credits	NDXT 130, NDXT 131, NDXT 132, NDXT 200, NDXT 201, NDXT 202, and NDXT 220

SUMMER SEMESTER (2ND 6 Weeks)

Courses	Credits	Prerequisites (Minimum Grade of C Required)
NDXT 232 EEG Procedures and Pathology 4	1 credit	NDXT 130, NDXT 131, NDXT 132, NDXT 200, NDXT 201, NDXT 202, and NDXT 220
NDXT 221 EEG Clinical Practice 2 (continued)	3 credits	NDXT 130, NDXT 131, NDXT 132, NDXT 200, NDXT 201, NDXT 202, and NDXT 220