

# ELECTRONEURODIAGNOSTIC TECHNOLOGY WITH A CONCENTRATION IN POLYSOMNOGRAPHY, ASSOCIATE OF APPLIED SCIENCE



The Associate of Applied Science degree prepares the student for an entry-level position as an Electroneurodiagnostic Technologist, for employment in hospitals, doctors' offices and clinics. Electroneurodiagnostic technology is a profession devoted to the recording and study of electrical activity of the brain and nervous system. Used for medical evaluation and research, it includes procedures that assess the function of the nervous system. Technologists record electrical activity arising primarily from the brain, spinal cord and peripheral nerves. A concentration in Polysomnography will prepare the students for an entry-level position as a Polysomnographic Technologist. Polysomnography is a study of sleep, and sleep disordered conditions. This program consists of on-campus didactic and laboratory instruction, as well as off-campus clinical experiences at our affiliated health care institutions.

**Program contact:** Learn more

## Related Degrees and Certificates

- Electroneurodiagnostic Technology, Associate of Applied Science

## Program Admission Requirements

Application may be submitted to the Health Careers Enrollment Center after meeting the following requirements:

- High School Diploma/GED
- GPA required: 2.0 admissions/core courses requirements, 2.5. overall.
- Non-native English speaking applicants: Admission into Cuyahoga Community College is premised on a complete and accurate initial application to the College, including, if applicable, proof of English Language Proficiency Requirements for admission as indicated on the English Language Proficiency Requirements for Admissions to the College, and available on the web at: <http://www.tri-c.edu/get-started/international-students/english-language-proficiency-requirements-for-admission.html>  
To be accepted into any selective admission programs, students must successfully complete English as a Second Language (ESL) course/s, as referenced above, if deemed necessary by the College at

the time of enrollment. Admission is conditioned upon achieving the necessary grade point average (GPA), English language proficiency requirements and any specific pre-requisite courses, and by meeting program accreditation or licensing requirements as evidenced in the Program Handbook for the specific program.

- Complete the following courses with a grade of "C" or higher. (Note pass/no pass grades not accepted):

Code	Title	Credit Hours
BIO-1100	Introduction to Biological Chemistry <sup>1</sup>	3
BIO-2331	Anatomy and Physiology I <sup>2</sup>	4
Select one of the following:		3
ENG-1010	College Composition I <sup>3</sup>	3
ENG-101H	Honors College Composition I	3

<sup>1</sup> CHEM-1010 and CHEM-1020 Introduction to Organic Chemistry and Biochemistry will be accepted in place of BIO-1100.

<sup>2</sup> BIO-2330 and BIO-2340 together will be accepted in place of BIO-2331 and BIO-2341. It is recommended that BIO-2341 Anatomy and Physiology II also be taken prior to entering the program.

<sup>3</sup> ENG-1020 or ENG-102H will be accepted in place of ENG-1010 or ENG-101H

## Other Information

- 16 students accepted per year.
- Criminal background check required.
- Two Clinical observation visits required (see details in application packet).
- Pre-admission status may be offered if admissions requirements are incomplete; however, no student will be admitted into the program until all prerequisites and observation are successfully completed.
- Core courses may be repeated only once to improve a grade below "C".
- Courses used as prerequisites, core courses, as well as all Electroneurodiagnostic specialty courses, MUST have a traditional letter grade. The Pass/No Pass (P/NP) grading option for prerequisites, core and specialty courses will NOT be accepted to meet program graduation requirements.
- Candidates will be required to present documentation of good health verified by a physician examination and immunizations prior to being granted permission to enter clinical training and CPR certification. Please refer to the health requirements for health career students.
- Accepted applicants must attend a group information session prior to Fall Semester.

**Program Application Packet** available here.

## Program Learning Outcomes

This program is designed to prepare students to demonstrate the following learning outcomes:

1. Demonstrate knowledge and performance of all electroneurodiagnostic testing procedures.
2. Manage and budget time to perform various electroneurodiagnostic procedures according to current guidelines.

3. Listen, speak and contribute with team members while performing various electroneurodiagnostic procedures in different clinical settings.
4. Recognize technical and clinical changes during data acquisition and provide appropriate documentation.
5. Demonstrate knowledge and performance of all electroneurodiagnostic testing procedures.

## Suggested Semester Sequence

Program Admissions Requirements Semester		Credit Hours
BIO-1100	Introduction to Biological Chemistry <sup>1</sup>	3
BIO-2331	Anatomy and Physiology I <sup>2, 3</sup>	4
Select one of the following:		3
ENG-1010	College Composition I	
ENG-101H	Honors College Composition I	
<b>Credit Hours</b>		<b>10</b>
<b>First Semester</b>		
END-1300	Introduction to Electroneurodiagnostic Technology	2
END-1312	Cardiopulmonary Anatomy and Physiology <sup>4</sup>	3
END-1350	Introduction to Electroencephalography (EEG)	3
MATH-1190	Algebraic and Quantitative Reasoning (or higher Approved Ohio Transfer 36 Mathematics course) <sup>5</sup>	3
Arts & Humanities requirements		3
<b>Credit Hours</b>		<b>14</b>
<b>Second Semester</b>		
BIO-2341	Anatomy and Physiology II <sup>6</sup>	4
END-1450	Intermediate Electroencephalography (EEG)	3
END-1500	Basic Evoked Potentials	3
END-1911	END Directed Practice I	3
<b>Credit Hours</b>		<b>13</b>
<b>Summer Session</b>		
END-2451	Neonatal/Pediatric Electroencephalography	3
END-2510	Principles of Polysomnography <sup>7, 13</sup>	3
END-2911	END Directed Practice II	2
<b>Credit Hours</b>		<b>8</b>
<b>Third Semester</b>		
END-2413	Neurophysiology of Electroencephalography/Sleep Disorders <sup>8</sup>	3
END-2520	Intermediate Polysomnography I <sup>9, 13</sup>	3
END-2915	Polysomnography Directed Practice I <sup>10, 13</sup>	3
Select one of the following:		3
PHIL-2050	Bioethics	
PHIL-205H	Honors Bioethics	
<b>Credit Hours</b>		<b>12</b>
<b>Fourth Semester</b>		
END-2530	Intermediate Polysomnography II <sup>11, 13</sup>	3
END-2990	Electroneurodiagnostic Capstone	1

Communications/Mathematics/Natural Sciences requirement <sup>12</sup>	3
<b>Credit Hours</b>	<b>7</b>
<b>Total Credit Hours</b>	<b>64</b>

- <sup>1</sup> CHEM-1010 Introduction to Inorganic Chemistry and CHEM-1020 Introduction to Organic Chemistry and Biochemistry will be accepted in place of BIO-1100 Introduction to Biological Chemistry.
- <sup>2</sup> Requires sufficient score on Biology Placement Test to take this course in the same semester as BIO-1100.
- <sup>3</sup> BIO-2330 and 2340 together will be accepted in place of BIO-2331 and 2341.
- <sup>4</sup> END-1310 or END-1311 will be accepted in place of END-1312.
- <sup>5</sup> MATH-1240 Contemporary Mathematics taken prior to Fall 2024 will be accepted to meet the Mathematics requirement for this program.
- <sup>6</sup> BIO-2330 and 2340 together will be accepted in place of BIO-2331 and 2341.
- <sup>7</sup> END-1410 will be accepted in place of END-2510.
- <sup>8</sup> END-2411 or END-2412 will be accepted in place of END-2413.
- <sup>9</sup> END-1421 and END-142L together will be accepted in place of END-2520.
- <sup>10</sup> END-1934 will be accepted in place of END-2915
- <sup>11</sup> END-1430 will be accepted in place of END-2530.
- <sup>12</sup> Excludes developmental education, ENG-1001 Intensive College Reading & Writing, and English as a Second Language courses.
- <sup>13</sup> Students with the RPSGT credential may qualify for a waiver or comparable credit for END-2510, END 2520, END-2530, and END-2915. See Program Director for more information on applying for a waiver or comparable credit.

MATH-1140, MATH-1141, MATH-1200, MATH-1270, and MATH-1280 can no longer count towards fulfilling the college-level mathematics requirement. These courses were re-classified as developmental mathematics by the state of Ohio in 2016. Tri-C established a 5-year transitioning window for students who had completed these courses prior to 2016 to apply them towards meeting graduation requirements, which expired in Summer 2021. It is highly recommended to see a counselor to determine the appropriate math required for your current major.