

ELECTRONEURODIAGNOSTIC TECHNOLOGY, ASSOCIATE OF APPLIED SCIENCE



The Associate of Applied Science degree prepares the student for an entry-level position as an Electroneurodiagnostic Technician 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. 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

Learn more about related programs.

Related Degrees and Certificate Programs

- Electroneurodiagnostic Technology with a concentration in Polysomnography, 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 ¹	3
BIO-2331	Anatomy and Physiology I ²	4
Select one of the following:		3
ENG-1010	College Composition I	
ENG-101H	Honors College Composition I ¹	

- ¹ CHEM-1010 and CHEM-1020 will be accepted in place of BIO-1100
² BIO-2330 and BIO-2340 together will be accepted in place of BIO-2331 Anatomy and Physiology I and BIO-2341 Anatomy and Physiology II. It is recommended that BIO-2341 Anatomy and Physiology II also be completed prior to entering the program.

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. Effectively communicate to patients and families when explaining various electroneurodiagnostic 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 ¹	3
BIO-2331	Anatomy and Physiology I ^{2,3}	4
Select one of the following:		3
ENG-1010	College Composition I	
ENG-101H	Honors College Composition I	
Credit Hours		10
First Semester		
END-1300	Introduction to Electroneurodiagnostic Technology	2
END-1312	Cardiopulmonary Anatomy and Physiology ⁴	3
END-1350	Introduction to Electroencephalography (EEG)	3
MATH-1190	Algebraic and Quantitative Reasoning (or higher Approved Ohio Transfer 36 Mathematics course) ⁵	3
Arts and Humanities/Social and Behavioral Sciences requirement		3
Credit Hours		14
Second Semester		
BIO-2341	Anatomy and Physiology II ⁶	4
END-1450	Intermediate Electroencephalography (EEG)	3
END-1500	Basic Evoked Potentials	3
END-1911	END Directed Practice I	3
Credit Hours		13
Summer Session		
END-2401	Intraoperative Monitoring for Electroneurodiagnostic Technologists ⁹	3
END-2911	END Directed Practice II	2
END-2451	Neonatal/Pediatric Electroencephalography	3
Credit Hours		8
Third Semester		
END-2300	Nerve Conduction Studies	3
Select one of the following:		3
END-2413	Neurophysiology of Electroencephalography/Sleep Disorders	
END-2421	Intermediate Intraoperative Monitoring ¹⁰	
END-2922	END Directed Practice III ¹¹	3
Select one of the following:		3
PHIL-2050	Bioethics	
PHIL-205H	Honors Bioethics	
Credit Hours		12
Fourth Semester		
END-2320	Intermediate Nerve Conduction Studies	3
END-2990	Electroneurodiagnostic Capstone	1

Communications/Mathematics/Natural Sciences requirement ⁸	3
Credit Hours	7
Total Credit Hours	64

- ¹ CHEM-1010 Introduction to Inorganic Chemistry and CHEM-1020 Introduction to Organic Chemistry and Biochemistry may be taken in place of BIO-1100 Introduction to Biological Chemistry.
- ² Requires sufficient score on Biology placement test to take this course in the same semester as BIO-1100 Introduction to Biological Chemistry.
- ³ BIO-2330 and BIO-2340 together will be accepted in place of BIO-2331 Anatomy and Physiology I and BIO-2341 Anatomy and Physiology II.
- ⁴ END-1310 and END-1311 will be accepted in place of END-1312.
- ⁵ MATH-1240 Contemporary Mathematics taken prior to Fall 2024 will be accepted to meet Mathematics requirement for this program. 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.
- ⁶ BIO-2340, or BIO-234A and BIO-234B will be accepted in place of BIO-2341.
- ⁷ END-2411 and 2412 will be accepted in place of END-2413.
- ⁸ Excludes developmental education, ENG-1001, and English as a Second Language courses.
- ⁹ END-2400 will be accepted in place of 2401.
- ¹⁰ END-2420 will be accepted in place of END-2421.
- ¹¹ END-2930 and 2921 will be accepted in place of 2922.

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.