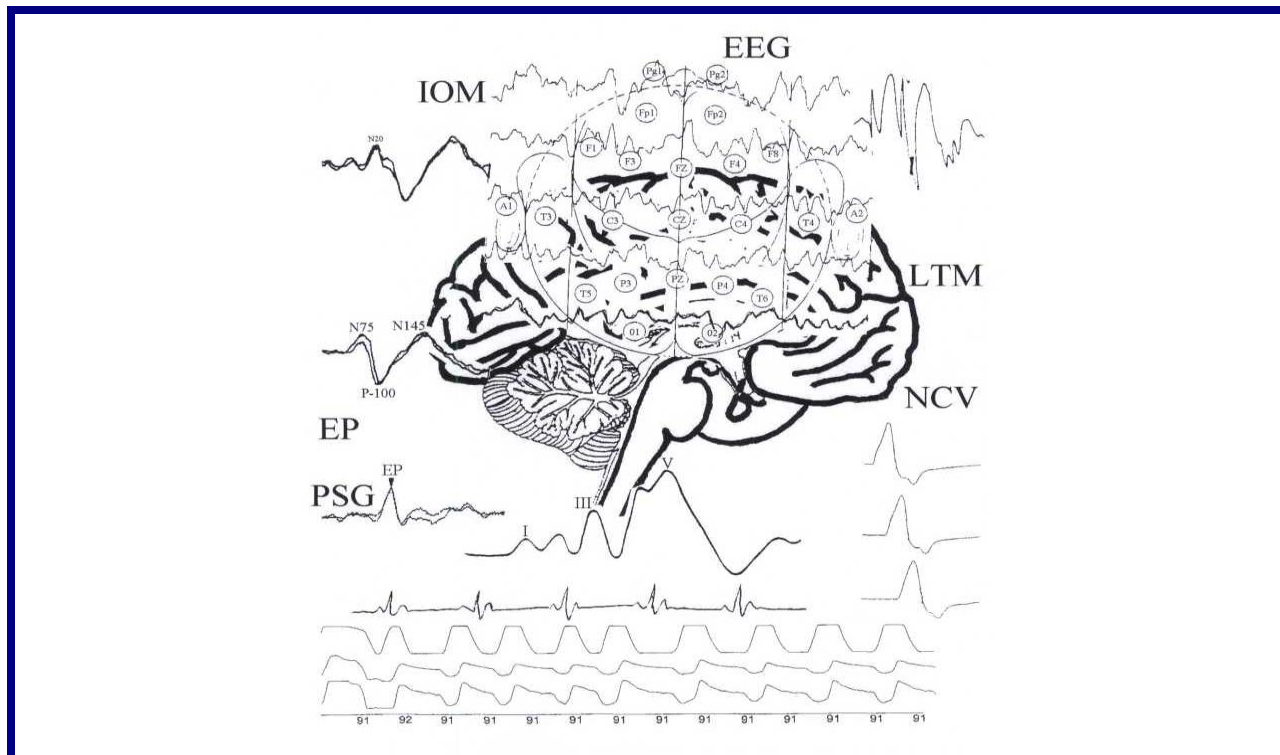


# ELECTRONEURODIAGNOSTIC TECHNOLOGY PROGRAM



**Intraoperative Monitoring (IOM)**  
**Nerve Conduction Studies (NCS)**  
**Electroencephalography (EEG)**  
**Long Term Monitoring (LTM)**  
**Polysomnography (PSG)**  
**Evoked Potentials (EP)**

**Cuyahoga Community College is currently Ohio's only Accredited Electroneurodiagnostic Associate Degree Program!**

## ELECTRONEURODIAGNOSTIC TECHNOLOGY PROGRAM

Western Campus  
Cuyahoga Community College  
Health Careers Division  
11000 Pleasant Valley Road  
Parma OH 44130  
[www.tri-c.edu](http://www.tri-c.edu)



*Dear Electroneurodiagnostic Applicant:*

*Thank you for your interest in the Electroneurodiagnostic Technology Program at Cuyahoga Community College. Enclosed is the application material you requested. Please note that applicants can apply anytime once core courses have been successfully completed.*

**Electroneurodiagnostic classes start each Fall semester**

Sincerely,

*Michael P. Cassida*

**Michael Cassida, BA, RPSGT, RST**  
Program Director, Electroneurodiagnostic Technology  
Cuyahoga Community College  
11000 Pleasant Valley Road  
Parma OH 44130

**Dr. Mark Ryland, AuD, R.NCS.T., RPSGT, R.EEG/EP T.**  
Faculty  
Cuyahoga Community College  
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**Jitka Janecek, BSN, RN, R EEG/EP T., CNIM, R.NCS.T., RPSGT**  
Clinical Preceptor/ Coordinator, Electroneurodiagnostic Technology  
Cuyahoga Community College  
11000 Pleasant Valley Road  
Parma OH 44130

**\*\*\*Equal Opportunity Educational Program:**

*"In conformance with the state and federal guidelines, the Electroneurodiagnostic Technology Program at Cuyahoga Community College (College) is an equal opportunity educational program. The Program does not discriminate on the basis of age, ancestry, color, disability, military status, national origin, race, religion, sex, sexual orientation, gender identity and expression, pregnancy, veteran status and genetic information. In compliance with FERPA guidelines and in order to protect the privacy of its students, the release of information to third parties may occur only after receiving written permission from the student."*



## College Mission Statement

To provide high quality, accessible and affordable educational opportunities and services - including university transfer, technical and lifelong learning programs - that promote individual development and improve the overall quality of life in a multicultural community.

## Electroneurodiagnostic (END) Program Accreditation

Tri-C's END Technology Program is one of 23 accredited programs in the United States, and the **first and only accredited program in Ohio.**

The Cuyahoga Community College Electroneurodiagnostics Program is accredited by the Commission on Accreditation of Allied Health Education Programs ([www.caahep.org](http://www.caahep.org)) upon the recommendation of CoA-NDT.

Commission on Accreditation of Allied Health Education Programs  
25400 US Highway 19 N., Suite 158  
Clearwater, FL 33763  
727-210-2350  
[www.caahep.org](http://www.caahep.org)

## Electroneurodiagnostic Program Goal & Standards

The **Goal** of the Electroneurodiagnostics program is **“To prepare competent entry-level Neurodiagnostic technologists in the Cognitive (knowledge), Psychomotor (skills) and Affective (behavior) learning domains”**. This Goal will be achieved while maintaining an educational environment that fosters self-awareness and personal growth. The definition of “entry-level” is: “As entry into the profession to which you are being prepared.” Program characteristics, which contribute to this purpose, include a high quality curriculum, supportive institutional administration, low student faculty ratio, and an active, professional advisory committee.

The following are the program **Standards** for the entry-level technologist:

- To develop a sound background in Biological and Physical Sciences prior to the beginning of clinical courses.
- To develop and maintain both verbal and written communication skills concentrating on accuracy, clarity, and conciseness.
- To develop interpersonal skills facilitating a good working relationship with patients, peers, superiors, and other health care personnel.



- To develop ethical and professional attitudes and behaviors that foster the highest degree of health care performance.
- To develop evaluative and technical skills required to perform therapeutic procedures, diagnostic testing and equipment utilization specific to the Neurodiagnostics profession.
- To abide by the American Society of Electroneurodiagnostic Technologists, Inc., Board of Trustees declaration that, “By 2005, any individual entering the END profession must have earned an associate degree or higher and have successfully completed a program reviewed by the Joint Review Committee on Education in Electroneurodiagnostic Technology and accredited by the Commission on Accreditation of Allied Health Education Programs.”
- To fulfill the employment needs for technologists in staff positions in Cuyahoga County and its surrounding communities.

\*The curriculum design supports the specific program goal and standards. The first semester is designed to develop a scientific basis through biological, physical, and profession-based courses. This design enhances the preparedness of the students entering the second semester, which begins the clinical courses. The curriculum is designed to pay specific attention to the learning sequence providing for the development of simple skills and progressing to more complex skills requiring analysis and evaluation. A student's clinical rotation schedule will provide a diverse, health care experience. Clinical sites are comprised of hospital or clinic-based END departments, which will provide sufficient clinical hours required to begin a career in Electroneurodiagnostics. Private labs may be available in the future.

## **Electroneurodiagnostics Program 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.



## ADMISSIONS REQUIREMENTS

### ELECTRONEURODIAGNOSTIC (END) TECHNOLOGY PROGRAM

To be considered for this program, the following requirements must be completed:

1. **TRI-C APPLICATION:** Completion of Tri-C Application for Admission/Readmission Form
2. **ELECTRONEURODIAGNOSTIC APPLICATION:** Completion of END Application Form (at the end of this packet)
3. **OFFICIAL TRANSCRIPTS: OFFICIAL TRANSCRIPTS ARE REQUIRED FROM ALL COLLEGES, AND UNIVERSITIES ATTENDED OTHER THAN TRI-C.** It is recommended that you request these transcripts at least 8 weeks prior to submission of your complete application packet. Individuals should request that educational institutions send one copy of each transcript directly to each of the following locations:
  - A. One copy to **Office of the Registrar (see address below)**. Your application will not be considered complete until all external transcripts have been evaluated by the college Admissions and Records Department. This process takes 8 weeks.
4. **The completed application packet** containing the ELECTRONEURODIAGNOSTIC APPLICATION, the OFFICIAL TRANSCRIPT(S) and the **one** completed OBSERVATION FORM must be submitted to the **Electroneurodiagnostic Program at the following address:**

**Office of the Registrar  
Cuyahoga Community College  
P.O. Box 5966  
Cleveland, Ohio 44101-0966**

- B. One copy to **you at your home address. DO NOT OPEN THE SEALED ENVELOPE.** The transcript in the unopened envelope should be sent in as part of your completed application packet.

**Attn: Michael Cassida  
Program Director  
Cuyahoga Community College  
Electroneurodiagnostics/Polysomnography  
Western Campus  
11000 Pleasant Valley Road  
Parma, Ohio 44130**



**Completion of the following core courses** or transfer of comparable courses from another college or university). The following Biology courses must be completed with a “C” grade or better, and may only be repeated once to improve a grade.

- Overall GPA 2.5 or higher
- “C” grades or higher in the following core courses:
  - a. **ENG-1010** – College Composition-I
  - b. **BIO-1100** – Intro to Biological Chemistry or CHEM 1010 and CHEM 1020, or other (CHEM 101 and CHEM 102) equivalent/higher level Chemistry will be accepted.
  - c. **BIO-2331** (formerly BIO-2330) - Anatomy and Physiology-I

Accepted Applicants must submit to and pass a Background Check. Any falsification of information provided in the application will automatically disqualify the applicant for admission to the program. Accepted applicants are required to attend a mandatory group information session prior to fall semester.

**Space Limitation:**

The number of students accepted into the program is determined by the availability of space in the program’s hospital/clinical affiliates. The maximum number of accepted applicants will not exceed 15 students.

**Waiting List:**

Applicants placed on a waiting list are those who have completed all program admission requirements but were not the first 15 applicants to apply. This next group of 15 who successfully completed the admission requirements will be admitted the following fall semester.

**TUITION COSTS: Instructional Fees per semester hour of credit**

<b>Cuyahoga County Residents:</b>	<b>\$124.54</b>
<b>Other Ohio Residents:</b>	<b>\$154.08</b>
<b>Out-of–State Residents:</b>	<b>\$291.19</b>

- \*\* Supplemental Fees may apply for some courses.
- \*\* Students enrolled in the Electroneurodiagnostic Program may be eligible for Veteran’s Benefits under the G.I. Bill.
- \*\* Fees subject to change

**FINANCIAL ASSISTANCE**

- Free Application for Federal Student Assistance, State Grants, and/or Student Loan Information is available at: [www.fafsa.gov](http://www.fafsa.gov)
- Scholarship Information: <http://regents.ohio.gov/>
- Contact the Student Financial Assistance Office at: 1-800-954-8742 or visit the website at <http://www.tri-c.edu/Finaid/default.htm> or visit any of our Student Financial Assistance Offices at any Tri-C Campus for details.



## Questions Most Commonly Asked About the Electroneurodiagnostic Program

### What is Electroneurodiagnostic Technology?

Electroneurodiagnostic (END) technology is the scientific field devoted to the recording and study of electrical activity of the brain and nervous system. Technologists record electrical activity arising from the brain, spinal cord, peripheral nerves, somatosensory or motor nerve systems using a variety of techniques and instruments.

### What Do Electroneurodiagnostic Technologists Do?

END technologists prepare patients for procedures, obtain medical histories, record electrical potentials, calculate results, maintain equipment, and may work with specific treatments. They develop a good rapport with patients and comfort them during the recording procedure, which can last from 20 minutes (for a single nerve conduction study) to 8 hours (for an overnight sleep study). END technologists understand neurophysiology and recognize normal and abnormal electrical activity. They act as eyes and ears for specially trained doctors who later review and interpret the data. Considerable individual initiative, reasoning skill, and sound judgment are all expected of the Electroneurodiagnostic professional.

### What types of Procedures do END Technologists Perform?

The following are the most common Electroneurodiagnostic procedures:

**Electroencephalography (EEG)** is the spontaneous electrical activity of the brain. EEGs assist in the diagnosis of various brain disorders, it helps to evaluate the effects of head trauma or the consequences of severe infectious disease, and assists in determining level of consciousness or stages of sleep. EEG information can help determine that the brain is receiving oxygen during various surgeries. The electroencephalogram (EEG) is the most known electroneurodiagnostic test.

**Evoked Potential (EP)** is a recording of electrical activity from the brain, brain stem, and peripheral nerves elicited by a specific stimulus to the visual, auditory or somatosensory pathways. The stimulus produces a characteristic wave pattern. Evoked Potentials may be monitored during surgery while the patient is unconscious, thus help prevent damage to the nervous system. Evoked Potentials can also be used to help with the diagnosis of neurological diseases.

**Polysomnography (PSG)** is a special Electroneurodiagnostic procedure that uses various physiologic monitors to monitor a person's sleep pattern, breathing, heart activity, and limb movements. It helps to evaluate sleep and various sleep disorders, most commonly sleep apnea. It also helps to assess the effectiveness of treatment of these disorders.

**Nerve conduction studies (NCS)** is a test, which can identify nerve damage. The test measures how fast an electrical impulse moves through the peripheral nerves in the





extremities. Technologists stimulate the nerve with an electrical current and then record how long it takes the nerve impulse to reach the muscle.

**Intraoperative Monitoring (IOM)** is the use of various electroneurodiagnostic tests described above to monitor the functional integrity of different neural structures (brain, brain stem, spinal cord, peripheral nerves) during surgery. The types of surgeries include a wide range including orthopedic, neurosurgery, or vascular.

**Long Term Monitoring (LTM)** is a specific kind of monitoring utilizing EEG over long periods of time. This type of prolonged EEG recording is used primarily for Epilepsy monitoring, but is also widely used in the intensive care units, the operating room, or in the emergency department.

### **What is the Career Outlook for END Technologists?**

Employment opportunities are abundant. Particularly strong growth areas are Electroencephalography, Long Term Monitoring, and Intraoperative Monitoring due to the growing recognition of the value of these tests, and subsequent expansion of these departments. There is a continuous need for well-educated Electroneurodiagnostic Technologists. The demand grows as new labs open and existing labs expand.

### **How Much Do They Earn?**

Salaries depend on education, experience, level of responsibility, and area of the country. Salaries range from \$37,000 for new graduates of END programs to over \$73,000 per year for lab managers or independent contractors. As of June 2018, the **median salary** for all END technologists across the country is **\$52,272** according to Salary.com. ([www.salary.com](http://www.salary.com)) Technologists who hold professional credentials, college degrees, and who owned their own business commanded the highest salaries.

### **What Basic Qualifications Do Electroneurodiagnostic Students Need?**

Students must have actively inquiring minds, above average intelligence, and a willingness to engage in life-long learning. Students must also have tact, patience, and compassion. Manual dexterity and a capacity to deal with visual, electrical, and computer concepts are important. They must be interested in biology, human anatomy, mathematics, and grammar.





## **Cuyahoga Community College Electroneurodiagnostic Technology Program**

### **Technical/Physical Standards**

END Technologists (as well as other Allied Health Care Professionals) must have a certain level of manual dexterity, good vision, writing skills, and aptitude for working with electronic equipment, and the ability to work with patients and other health professionals.

Below are statements identifying the standards appropriate to Allied Health Professional. An individual entering into the Electroneurodiagnostic Technology Program should be able to comprehend and comply with these standards.

For safety reasons, the student must:

- A. Have sufficient strength, motor coordination, and manual dexterity to:
  - 1. Quickly respond to situations in remote locations throughout the hospital.
  - 2. Move patients, equipment, and manipulate equipment as necessary.
  - 3. Position patients for appropriated procedures
  - 4. Perform CPR and required procedures in accordance with accepted practice standards.
  - 5. Be able to stand or remain in a fixed position for prolonged periods (up to 30 minutes).
  - 6. Prevent harm to patients and self.
  
- B. Hear well enough to understand verbal, telephone information, and commands, paging systems, and alarms in normal and congested situations in order to perform in accordance with accepted practice standards.
  
- C. Communicate in English, both verbally and in written format, clearly, precisely, and effectively with patient, physicians, and staff members.
  
- D. Have sufficient visual acuity to read medical records and obtain accurate readings/ images for diagnostic and therapeutic procedures.
  
- E. Have the maturity and emotional stability to:
  - 1. Make decisions and act appropriately in life-threatening situations.
  - 2. Provide emotional support to patients and family members when situation requires it.
  - 3. Tolerate stressful, unpleasant, unnerving, or congested situations in a stable composed manner so that job performance is not compromised.



4. Conduct oneself in a professional courteous manner, show discretion, maintain patient confidentiality, be on time for required assignments, and responsible for one's own actions.
- F. Have the intellectual capacity to:
1. Gather and evaluate data to assess patient status and make clinical judgments accordingly.
  2. Perform procedures in accordance with accepted practices.
  3. Adapt procedures to individual patient needs.
  4. Administer safe patient care.
  5. Respond professionally and appropriately to new and/ or patient life-threatening situations.
  6. Make referrals to appropriate healthcare professionals in response to patient needs.
  7. Performs required calculations.
  8. Access and enter information into computer system.
- G. Applicant Statement:  
Having read and understood the above statements, I certify that I have no physical/mental or emotional conditions that would prevent me from performing the above listed standards with or without reasonable accommodations.

Signature \_\_\_\_\_ Date \_\_\_\_\_

Print Name \_\_\_\_\_



## What type of Education/Training is Available?

The END curriculum at CCC offers two (2) Associate of Applied Science degree tracks:

- a) Track 1 Electroneurodiagnostic Technology (general track) includes courses in Electroencephalography (EEG), Evoked Potentials (EP), Intraoperative Monitoring (IOM), and Nerve Conduction Studies (NCS).
- b) Track 2 Electroneurodiagnostic Technology with a concentration in Polysomnography includes courses in Electroencephalography (EEG), Evoked Potentials (EP), and Polysomnography (PSG).

The Board of Trustees of the American Society of Electroneurodiagnostic Technologists has declared:

*“By 2005, any individual entering the END profession must have earned an Associate Degree or higher and have successfully completed a program reviewed by the Joint Review Committee on Education in Electroneurodiagnostic Technology and accredited by the Commission on Accreditation of Allied Health Education Programs. Within two years of graduation, individuals are strongly encouraged to take and pass a recognized national examination for professional credentials in an area of Electroneurodiagnostic specialty.”*

## Do END Technologists Need Credentials?

The competency standard for END is successful completion of national board examinations for professional credentials. Professional credentials are available in EEG, Evoked Potentials, Intraoperative Monitoring, Long Term Monitoring, Polysomnography, and Nerve Conduction Studies.

## Need more information?

**Please contact:**

**Michael Cassida, BA, RPSGT, RST**  
**Program Director**  
**Electroneurodiagnostics**  
**Cuyahoga Community College**  
**11000 Pleasant Valley Road**  
**Parma OH 44130**  
**216-987-5654**  
[Michael.cassida@tri-c.edu](mailto:Michael.cassida@tri-c.edu)



## Background Check Information (BCI)

A BCI is a search and report of criminal records, also known as a background check. The BCIs are conducted by CastleBranch and completed by the Bureau of Criminal Identification and Investigation. The BCIs include fingerprinting, a social security number trace, county record search, state search and a check of Federal Bureau of Investigation records.

All health career programs at Tri-C are considered selective admission programs. These programs have a limited number of openings each year and have specific admission requirements that must be met prior to admission. The completion of a criminal background check (BCI) is one of the admission requirements to a Health Career program. The background checks are required in order to (i) ascertain the ability of students to eventually become licensed, registered and/or certified in their health career profession and (ii) the ability of the students to attend mandatory clinical, practicum and/or internship rotations at internal and external facilities in accordance with the requirements of the applicable program of study.

### Where do I go to get the BCI?

“Effective June 14, 2021, all students are required to attend a mandatory compliance orientation session as part of the health careers student BCI and health requirement management process.”

These sessions will cover how to set up your account and register with the third-party administrator vendor, **American Data Bank (ADB) Complio**. Once the account is established, students will receive instructions from the vendor on how to proceed with fingerprinting. Students will also be able to enter and upload health requirement information. Students should not attempt to create an account until guided by the Compliance staff and after they have attended the orientation session.

The Clinical Compliance and Education Specialist, **Brittany Pearsall** will be in contact with you in regards to scheduling your mandatory American Data Bank (ADB) Complio training session. Please check your email regularly for her correspondence. If you have any questions regarding the training or compliance process, please email her at **[Brittany.Pearsall@tri-c.edu](mailto:Brittany.Pearsall@tri-c.edu)** or call the Healthcare Initiatives Office at **216-987-3475**.”



## Track1: ELECTRONEURODIAGNOSTIC TECHNOLOGY (general track), ASSOCIATE OF APPLIED SCIENCE

<b>General Education Requirements</b>			<b>Credits</b>
<b>Arts &amp; Hum/Soc &amp; Beh Sci/Nat &amp; Phys Sci (minimum 6 credits. All listed courses must be completed.)</b>			<b>Credits</b>
BIO	1100	Introduction to Biological Chemistry <sup>1</sup>	3
BIO	2331	Anatomy and Physiology I <sup>2,3</sup>	4
BIO	2341	Anatomy and Physiology II <sup>6</sup>	4
DEGR	-	Arts & Hum/Soc & Beh Sci (see AAS Degree requirements)	3
PHIL	2050	Bioethics	3
PHIL	205H	Honors Bioethics	3
<b>Communication/Mathematics/Nat &amp; Phys Sci (minimum 6 credits. All listed courses must be completed.)</b>			<b>Credits</b>
DEGR	-	Communication...(Select from American Sign Language, English, Foreign Language, or Speech Communication) <sup>8</sup>	3
ENG	1010	College Composition I <b>or</b>	3
ENG	101H	Honors College Composition I	3
<b>Mathematics &amp; Data Analysis (3 Semester Credits)</b>			<b>Credits</b>
MATH	1240	Contemporary Mathematics or higher <sup>5</sup>	3
<b>Program Requirements</b>			<b>Credits</b>
END	1300	Introduction to Electroneurodiagnostic Technology	2
END	1311	Cardiopulmonary Anatomy and Physiology <sup>4</sup>	2
END	1350	Introduction to Electroencephalography (EEG)	3
END	1450	Intermediate Electroencephalography (EEG)	3
END	1500	Basic Evoked Potentials	3
END	1911	END Directed Practice I	4
END	2300	Nerve Conduction Studies	3
END	2320	Intermediate Nerve Conduction studies	3
END	2400	Intraoperative Monitoring for Electroneurodiagnostic Technologists	2
END	2412	Neurophysiology of Electroencephalography/Sleep Disorders <sup>7</sup>	3
END	2420	Intermediate Intraoperative Monitoring	2
END	2421	END Directed Practice III	2
END	2451	Neonatal/Pediatric Electroencephalography	3
END	2911	END Directed Practice II	2
END	2931	END Directed Practice IV	2
END	2990	Electroneurodiagnostic Capstone	1

### **Core Program Total / 63 - 64 Hours**

<sup>1</sup> 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.

<sup>2</sup> Requires sufficient score on Biology placement test to take this course in the same semester as BIO-1100 Introduction to Biological Chemistry.

<sup>3</sup> BIO-2330, or BIO-233A and BIO-233B will be accepted in place of BIO-2331 Anatomy and Physiology I.

<sup>4</sup> END-1310 will be accepted in place of END-1311.

<sup>5</sup> MATH-1141 or MATH-1280 taken prior to Fall 2016 will be accepted in place of MATH-1240 Contemporary Mathematics. MATH-1270 taken prior to Spring 2017 will be accepted in place of MATH-1240 Contemporary Mathematics. MATH-1141, MATH-1270 and MATH-1280 will be accepted for program admission through Fall 2019 and will also meet the College's math requirement for graduation through Summer 2021.

<sup>6</sup> BIO-2340, or BIO-234A and BIO-234B will be accepted in place of BIO-2341.

<sup>7</sup> END-2411 will be accepted in place of END-2412.

<sup>8</sup> Excludes developmental education, ENG-1001, and English as a Second Language courses.



## Track 1 Suggested Semester Sequence

<b>Program Admissions Requirement Semester</b>			<b>Credits</b>
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:			
ENG	1010	College Composition I	3
ENG	101H	Honors College Composition I	3
<b>Credit Hours</b>			<b>10</b>
<b>First Semester</b>			<b>Credits</b>
END	1300	Introduction to Electroneurodiagnostic Technology	2
END	1311	Cardiopulmonary Anatomy and Physiology <sup>4</sup>	2
END	1350	Introduction to Electroencephalography (EEG)	3
MATH	1240	Contemporary Mathematics (or higher) <sup>5</sup>	3
DEGR	-	Arts & Humanities/Social and Behavioral Sciences requirement	3
<b>Credit Hours</b>			<b>13</b>
<b>Second Semester</b>			<b>Credits</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>			<b>Credits</b>
END	2400	Intraoperative Monitoring for Electroneurodiagnostic Technologists	2
END	2911	END Directed Practice II	2
END	2451	Neonatal/Pediatric Electroencephalography	3
<b>Credit Hours</b>			<b>7</b>
<b>Third Semester</b>			<b>Credits</b>
END	2300	Nerve Conduction Studies	3
Select one of the following:			
END	2412	Neurophysiology of Electroencephalography/Sleep Disorders <sup>7</sup>	3
END	2420	Intermediate Intraoperative Monitoring	2
END	2921	END Directed Practice III	2
Select one of the following:			
PHIL	2050	Bioethics	3
PHIL	205H	Honors Bioethics	3
<b>Credit Hours</b>			<b>10-11</b>
<b>Fourth Semester</b>			<b>Credits</b>
END	2320	Intermediate Nerve Conduction Studies	3
END	2931	END Directed Practice IV	3
END	2990	Electroneurodiagnostic Capstone	1
DEGR	-	Communication requirement (select from American Sign Language, English, Foreign Language, or Speech Communication) <sup>8</sup>	3
<b>Credit Hours</b>			<b>10</b>
<b>Total credit hours</b>			<b>63-64</b>



## Track 2: ELECTRONEURODIAGNOSTIC TECHNOLOGY WITH A CONCENTRATION IN POLYSOMNOGRAPHY, ASSOCIATE OF APPLIED SCIENCE

<b>General Education Requirements</b>			<b>Credits</b>
<b>Arts &amp; Hum/Soc &amp; Beh Sci/Nat &amp; Phys Sci (minimum 6 credits. All listed courses must be completed.)</b>			<b>Credits</b>
BIO	1100	Introduction to Biological Chemistry <sup>1</sup>	3
BIO	2331	Anatomy and Physiology I <sup>2,3</sup>	4
BIO	2341	Anatomy and Physiology II <sup>6</sup>	4
DEGR	-	Arts & Hum/Soc & Beh Sci (see AAS Degree requirements)	3
PHIL	2050	Bioethics <b>or</b>	3
PHIL	205H	Honors Bioethics	3
<b>Communication/Mathematics/Nat &amp; Phys Sci (minimum 6 credits. All listed courses must be completed.)</b>			<b>Credits</b>
DEGR	-	Communication...(Select from American Sign Language, English, Foreign Language, or Speech Communication) <sup>12</sup>	3
ENG	1010	College Composition I <b>or</b>	3
ENG	101H	Honors College Composition I	3
<b>Mathematics &amp; Data Analysis (3 Semester Credits)</b>			<b>Credits</b>
MATH	1240	Contemporary Mathematics or higher <sup>5</sup>	3
<b>Program Requirements</b>			<b>Credits</b>
END	1300	Introduction to Electroneurodiagnostic Technology	2
END	1311	Cardiopulmonary Anatomy and Physiology <sup>4</sup>	2
END	1350	Introduction to Electroencephalography (EEG)	3
END	1450	Intermediate Electroencephalography (EEG)	3
END	1500	Basic Evoked Potentials	3
END	1911	END Directed Practice I	4
END	2412	Neurophysiology of Electroencephalography/Sleep Disorders	3
END	2451	Neonatal/Pediatric Electroencephalography	3
END	2510	Principles of Polysomnography <sup>7,13</sup>	3
END	2520	Intermediate Polysomnography I <sup>9,13</sup>	3
END	2530	Intermediate Polysomnography II <sup>11,13</sup>	3
END	2911	END Directed Practice II	2
END	2915	Polysomnography Directed Practice I <sup>10,13</sup>	1
END	2990	Electroneurodiagnostic Capstone	1

### **Core Program Total / 62 Hours**

- <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. 3 BIO-2330, or BIO-233A and BIO-233B, will be accepted in place of BIO-2331.
- <sup>4</sup> END-1310 will be accepted in place of END-1311.
- <sup>5</sup> MATH-1240 Contemporary Mathematics or higher became a program admission requirement effective Fall 2016. MATH-1141 or higher completed with a grade of "C" or higher prior to Fall 2016 will be accepted in place of MATH-1240 through Fall 2019.
- <sup>6</sup> BIO-2340, or BIO-234A and BIO-234B, will be accepted in place of BIO-2341.
- <sup>7</sup> END-1410 will be accepted in place of END-2510.
- <sup>8</sup> END-2411 will be accepted in place of END-2412.
- <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.





## Track 2 Suggested Semester Sequence

<b>Program Admissions Requirement Semester</b>			<b>Credits</b>
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:			
ENG	1010	College Composition I	3
ENG	101H	Honors College Composition I	3
<b>Credit Hours</b>			<b>10</b>
<b>First Semester</b>			<b>Credits</b>
END	1300	Introduction to Electroneurodiagnostic Technology	2
END	1311	Cardiopulmonary Anatomy and Physiology <sup>4</sup>	2
END	1350	Introduction to Electroencephalography (EEG)	3
MATH	1240	Contemporary Mathematics (or higher) <sup>5</sup>	3
DEGR	-	Arts & Humanities/Social and Behavioral Sciences requirement	3
<b>Credit Hours</b>			<b>13</b>
<b>Second Semester</b>			<b>Credits</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>			<b>Credits</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>			<b>Credits</b>
END	2412	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:			
PHIL	2050	Bioethics	3
PHIL	205H	Honors Bioethics	3
<b>Credit Hours</b>			<b>11</b>
<b>Fourth Semester</b>			<b>Credits</b>
END	2530	Intermediate Polysomnography II <sup>11,13</sup>	3
END	2990	Electroneurodiagnostic Capstone	1
DEGR	-	Communication requirement (select from American Sign Language, English, Foreign Language, or Speech Communication) <sup>12</sup>	3
<b>Credit Hours</b>			<b>10</b>
<b>Total credit hours</b>			<b>62</b>

## Cuyahoga Community College Electroneurodiagnostics Application

FULL LEGAL NAME (PLEASE PRINT):

LAST	FIRST	MIDDLE	Former if applicable
Address _____		Telephone (     ) _____	
City _____	State _____	Zip code _____	County _____
Student Number <u>  S  </u> _____		Email _____	

Track selection (please select one):

- Electroneurodiagnostic Technology (general track)
- Electroneurodiagnostic Technology with concentration in Polysomnography

Are you now or have you ever been enrolled at Cuyahoga Community College?  Yes  No  
If Yes, state the campus and term last attended:

Campus \_\_\_\_\_ Term \_\_\_\_\_ Year \_\_\_\_\_ Campus of record \_\_\_\_\_

Separate official transcripts for each college and university attended must be submitted to the **Registrar Office**, at least 8 weeks prior to the submission of this application packet. A second copy of transcripts must be included in this packet.

Complete the following table if you have ever attended any other college or university or other post-high school programs. (List in order of attendance, most recent first)

Name of College/University	City and State	From Month Year	To Month Year

Have you ever been convicted of a felony?  Yes  No

Completion of this form and minimum program requirements does not constitute admission to the program. Applicants will be notified by letter when they are accepted into the program.

Cuyahoga Community College is committed to continuing affirmative action and equal opportunities of access to employment and education and thus does not discriminate against current or potential employees or students on the basis of race, color, religion, sex, national origin or ancestry, age, disability, or status as a disabled or Vietnam-era veteran.

"I certify that the information provided on this application is complete and accurate in every respect. I understand that falsifying any aspect of this application may result in cancellation of admission."

Signature of Applicant (Do Not Print) \_\_\_\_\_ Date \_\_\_\_\_

## **Return This Form With Your Application**

### **Cuyahoga Community College Nursing and Allied Healthcare Career Programs Background Check & Conviction of Crime Acknowledgement**

I understand and acknowledge that Cuyahoga Community College District (the "College") may develop or obtain one or more criminal background checks ("CBC") pertaining to me. The CBC may be used for evaluation of my eligibility for one or more limited-entry programs of the College, and eligibility for one or more clinical/practicum/internship training requirements with third party organizations. I understand and acknowledge that the CBC may contain information concerning my criminal background. In all cases, all expenses associated with the CBC are to be my responsibility. If the results of the CBC are not deemed acceptable by the College, or if information received indicates that I have provided false or misleading statements, have omitted required information, or in any way am unable to meet the requirements for completion of the program, my admission may be denied or rescinded, and/or I may be disciplined or dismissed. I further understand and acknowledge that if, while I am a student, I am convicted of a crime of any type, other than a minor traffic violation, I must report the offense to the applicable program manager in writing within thirty (30) days of conviction (conviction includes plea arrangements, guilty pleas, pleas of no contest, findings of guilt, etc.).

I understand and acknowledge that these background checks will be obtained by the vendor chosen and specified by the College. The current vendor for this service is American Data Bank (ADB) Complio. The vendor is subject to change at any time. Background checks obtained from a vendor other than the vendor chosen and specified by the College will not be accepted.

I acknowledge and understand that I may not be admitted to a clinical setting, be permitted to test for or be granted licensure or accreditation if I have been or in the future am convicted of a crime. I acknowledge and understand that admittance to a limited-entry and/or completion of a program in no way guarantees that I will receive licensure, be permitted to practice and/or obtain future employment. I understand that I am financially responsible for all costs incurred as a student.

\_\_\_\_\_  
Student Name (Sign)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Student Name (Print)

\_\_\_\_\_  
S-Number