

Program Description

An Electroneurodiagnostic Technologist (END) is a skilled Allied Health professional who records electrical activity arising from the brain, spinal cord, peripheral nerves, somatosensory, or motor nerve systems using a variety of techniques and instruments.

The most common electroneurodiagnostic procedures include:

- Electroencephalogram (EEG) - a recording of the electrical activity of the brain on a computer that utilizes specialized software
- Intraoperative Neuromonitoring (IONM)- recording brain spinal and nerve function during surgery
- Long Term Monitoring (LTM) - Specialized EEG that is correlated with behavioral activity over prolonged periods of time to evaluate complicated seizures
- Evoked Potential (EP) - an electrical response of the nervous system to specific stimuli used to assess function visual, auditory and somatosensory nerve pathways
- Nerve Conduction Studies (NCS) - a recording of electrical potentials from the peripheral nerves

By recording electrical patterns throughout these systems, END technologists provide valuable data that a physician will use to diagnose and treat conditions such as neuromuscular disorders, brain tumors, seizure disorders, strokes, and degenerative brain disease.

Career Opportunities

The END technologist work with patients of all ages in a variety of settings including: hospitals, out-patient clinics, physician offices epilepsy monitoring units, operating rooms and research facilities.

Qualified END technologists are in demand. According to www.onetonline.org the average salary for an Electrodiagnostic Technologist in Texas is \$34,000 per year.

Options

Associate of Applied Science Degree

Electroneurodiagnostics.....61 credit hours
(2 years)

Advanced Technical Certificate

Electroneurodiagnostics.....32 credit hours
(1 year)

The **Advanced Technical Certificate** is open to applicants who have completed a health care program with an Associate Degree.

Program Information

Application Deadline: July 15th

Approximate cost for the Associate of Applied Science Degree is \$5,500* and the Advanced Technical Certificate is \$3,200*. This investment in your future includes in-district tuition, fees and books. Grants, loans, and/or scholarships are available to students who qualify.

* Tuition and fees are subject to change without notice.

For more information call 281-756-5644 or email END@alvincollege.edu.

Alvin Community College does not discriminate against anyone on the basis of race, religion, color, sex, handicap, age, national origin, or veteran status. The College reserves the right to alter or discontinue courses and programs.



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Electroneurodiagnostics

Associated of Applied Science Degree

Pre-requisite Courses	credits
Composition I	3
Anatomy & Physiology I	4
College Algebra	3
Medical Terminology	3
Basic Patient Care Skills	3
First Semester - Fall	credits
Anatomy & Physiology II	4
Life-Span Growth & Development	3
Electroencephalography	3
Applied Electronics and Instrumentation	3
Second Semester - Spring	credits
Interpersonal Communications	3
Electroneurodiagnostic Tech I	3
Electroneurodiagnostic Tech Clinical I	4
Neuroanatomy & Physiology	3
Elective: Visual Arts/Humanities/Performing Arts	3
Third Semester - Summer	credits
Electroneurodiagnostic Tech II	4
Electroneurodiagnostic Clinical II	3
Evoked Potentials	2
Fourth Semester - Fall	credits
Electroencephalography Clinical III	5
Nerve Conduction Studies	2
Electroneurodiagnostics (A.A.S.) Degree – credit hours	61

Electroneurodiagnostics

Advanced Technical Certificate

First Semester	credits
Electroencephalography	3
Applied Electronics and Instrumentation	3
Second Semester	credits
Electroneurodiagnostic Tech I	3
Electroneurodiagnostic Tech Clinical I	4
Neuroanatomy and Physiology	3
Third Semester	credits
Electroneurodiagnostic Tech II	4
Electroneurodiagnostic Clinical II	3
Evoked Potentials	2
Fourth Semester	credits
Electroencephalography Clinical III	5
Nerve Conduction Studies	2
Electroneurodiagnostics Certificate – credit hours	32