

Neurodiagnostic Technology (NDT), Certificate (Online)

Overview

The Neurodiagnostic Technology Certificate program has been designed for individuals who want a flexible classroom schedule and who may not have access to local NDT education. The curriculum includes a variety of courses in Neurodiagnostic Technology with a primary focus on electroencephalograms (EEG). This is an asynchronous program and requires weekly online class assignments. Students are also required to attend a minimum number of synchronous online meetings each semester. Students must complete a minimum of 672 hours of clinical experience.

Students are strongly encouraged to attend clinical more than the two minimum clinical days per week to achieve all competencies and to log more cases toward board requirements. More clinical time may be required to meet competencies.

Students in this program must be technologically competent in the use of computers, self-motivated, independent, and possess a strong desire to work in this field. The program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) and, as such, graduates are eligible to apply for examination by ABRET Neurodiagnostic Credentialing and Accreditation to earn the designation of R. EEG T.

For more information on this program please go to www.laboure.edu/NDT.

Curriculum

The online certificate program provides an accelerated professional course background that prepares the student to assist in the delivery of patient-centered care as a valued member of the healthcare team.

The program has many outstanding clinical affiliates nationwide. Students will gain valuable experience in these facilities and will learn how to perform electroencephalograms (EEG), as well as receive an introduction to long-term epilepsy monitoring (LTM), evoked potentials (EP), polysomnograms (PSG), and nerve conduction studies (NCS). Each specialized procedure aids in the diagnosis and treatment of neurological problems such as seizures, sleep disorders, and tumors.

Program Outcomes

Completers of the Neurodiagnostic Technology online certificate program will learn to accomplish the following:

- Practice patient-centered care in accordance with the ethical and legal framework of the neurodiagnostic profession to ensure the highest standards of practice;
- Collaborate as members of the healthcare team to ensure clinical effectiveness;
- Engage in evidence-based practice that integrates the latest research and clinical expertise;
- Use information technology to effectively communicate, support decision-making, and uphold management principles; and
- Apply quality-improvement principles to ensure safe practice according to professional standards.

Course Sequences and Prerequisites

Online Neurodiagnostic Certificate Program (EOL)

Course Sequence:

EOL 1010	Neurodiagnostic Technology I	3
EOL 1020	Clinical Education	3
EOL 1340	Aspects of Neuroanatomy & Neurophysiology	3
EOL 1120	Neurodiagnostic Technology II	3
EOL 1130	Clinical Practicum I	3
EOL 2010	Neurological Disease and Disorders	3
EOL 213R	Record Review	4
EOL 213C	Clinical Practicum	3
EOL 2130	Related NDT Procedures	3
EOL 2401	EEG Review	1

Program of Study

While the college makes every effort to avoid schedule changes, the college may cancel courses or alter course schedules without prior notification.

Semester I

EOL 1010	Neurodiagnostic Technology I	3
EOL 1340	Aspects of Neuroanatomy & Neurophysiology	3
EOL 1020	Clinical Education	3

Semester II

EOL 1120	Neurodiagnostic Technology II	3
EOL 2010	Neurological Disease and Disorders	3
EOL 1130	Clinical Practicum I	3

Semester III

EOL 213R	Record Review	4
EOL 213C	Clinical Practicum	3
EOL 2130	Related NDT Procedures	3
EOL 2401	EEG Review	1

More extensive clinical experience may be necessary to further develop skills.

Total: 29 credits

Students are required to take courses in the sequence in which they are offered. Students are awarded the certificate after meeting the criteria below:

- Successful completion of the certificate program as prescribed by the college
- A cumulative grade point average of 2.0 or higher
- A minimum grade of C (2.0) in all NDT professional courses
- Completion of all NDT program requirements within two years of enrollment at the college



Neurodiagnostic Technology NDT Courses

EOL 213C - Clinical Practicum (3)

This practicum emphasizes continued development of technical skills used in testing patients in a variety of clinical settings. Clinical experience will assist students in critical thinking and in the application of newly attained theory. Clinical experience will focus on practicing patient-centered care in accordance with the ethical and legal framework of the neurodiagnostic profession to ensure the highest standards of practice. Experience in more advanced skill areas, such as special care units and the operating room, may be included.

EOL 213R - Record Review (4)

Building on fundamental concepts learned in previous professional courses, students use information technology, research, and clinical expertise to review case studies in EEG, report writing and reading EEG. The learner is encouraged to utilize more independent critical thinking skills in order to enhance decision-making in the clinical setting. The learner prepares to integrate the role of the NDT Technologist as a member of a collaborative interdisciplinary team and within the profession of neurodiagnostic technology. Contemporary issues and trends impacting the profession are discussed. Emphasis is on utilizing the highest professional standards and evidence-based practice to bring together all aspects of patient care/ treatment and to correlate the clinical state of the patient with electrographic findings. A research paper is a required assignment.

EOL 2401 - EEG Review (1)

This review course prepares the student to take the ABRET Registry Examination in Neurodiagnostic Technology to earn the distinction of EEGT. Practice exams and concepts review will be the core of this course. Prerequisites: EOL 1010, EOL 1340, EOL 1020, EOL 1120, EOL 2010, EOL 1130

