

NEURODIAGNOSTIC TECHNOLOGY, ASSOCIATE IN SCIENCE DEGREE

Financial Aid Eligible
Banner Code: 1_AS_NDT
Control Number: 08657

Neurodiagnostic Technology is an allied health specialty for diagnosing patients with neurological disorders such as epilepsy, stroke, coma, multiple sclerosis, and many others. A competent Neurodiagnostic Technologist has knowledge of the nervous system and knows how to properly operate many types of sophisticated instruments. Neurodiagnostic Technologists are employed in hospitals, clinics, physicians' offices, university medical centers and research centers.

Orange Coast College's Neurodiagnostic Technologist program provides theory and clinical experience in Electroencephalography (EEG) and in Evoked Potential (BAEP, PVEP, SSEP) testing as well as an introduction to other neurological testing procedures. Some of the testing procedures include Nerve Conduction Studies (NCS), Long-term Monitoring (LTM) for Epilepsy, Intraoperative Neurophysiological Monitoring (IONM), Transcranial Doppler (TCD) Studies, and more.

The Commission on Accreditation of Allied Health Education Programs (CAAHEP) has accredited this NDT Program. The program meets the eligibility requirements to take the EEG and EP exams of the American Board of Registration in Electroencephalographic and Evoked Potential Technologists (ABRET).

The program can be completed in approximately 22 months (4 semesters and 1 summer). Completion of the program earns an Associate in Science Degree in Neurodiagnostic Technology. A new group of students begins this program in the fall semester of even years.

Program Admission

1. Allied Health 010 course – application and orientation
2. The student must complete Associate in Science degree General Education requirements and the program prerequisites prior to acceptance into the program.

Program Outcome

1. The goal of the program is to meet the needs of the local health care community by preparing students for entry level employment as a professional and competent Neurodiagnostic technologist.

Associate in Science Degree Requirements

1. **UNIT REQUIREMENT** - 60 UNITS, with at least a 2.0 grade point average. At least 12 of the units must be earned at OCC, with a minimum of one course taken for a letter grade. At least 3 units in an advanced course from the program must be completed at OCC. A student must be enrolled at the time of application for graduation. Units earned at an accredited college or university on a credit/no credit basis will be counted toward the degree requirements of the college, to a maximum of 15 units.

2. **MAJOR REQUIREMENT** - Complete the AA or AS major requirements as detailed in the Degree and Certificate section of this catalog.
3. **MATHEMATICS REQUIREMENT** - Demonstrate competence in mathematics by either obtaining a satisfactory grade (grade of "C" or better or "pass") in a mathematics course at or above the level of Intermediate Algebra as demonstrated by prior coursework, or by demonstrating competency that is comparable through the completion of a college-level math course that has Intermediate Algebra as a prerequisite: Psychology A160 or Math A100 or higher, with the exception of Math A220.
4. **GENERAL EDUCATION REQUIREMENT** - Students may choose to complete Option 1 (OCC AA GE) (<https://catalog.cccd.edu/orange-coast/general-education-patterns/associate-arts-general-education-option-1/>), Option 1 (OCC AS GE) (<https://catalog.cccd.edu/orange-coast/pathways/careers-healthcare/neurodiagnostic-technology/neurodiagnostic-technology-associate-science-degree/orange-coast/general-education-patterns/associate-science-general-education-option-1/>), Option 2 (CSU GE) (<https://catalog.cccd.edu/orange-coast/general-education-patterns/associate-degree-general-education-option-2/>), or Option 3 (IGETC) (<https://catalog.cccd.edu/orange-coast/general-education-patterns/associate-degree-general-education-option-3/>) to satisfy the general education requirement. See the General Education Patterns section of this catalog for more information.

Program Prerequisites

Course	Title	Units
ALH A010	Health Occupations	0.5
ALH A111	Medical Terminology	3
BIOL A221	Anatomy-Physiology	4
Total Units		7.5

Course	Title	Units
Year 1		
Fall		
ALH A115	Patient Care	2.5
ALH A130	Applied Pharmacology	3
NDT A110	Basic Electroencephalography	4
ALH A120	Human Diseases	2
Units		11.5

Intersession		
NDT A200	Neurodiagnostic Lab Practice	0.5
Units		0.5

Spring		
NDT A115	Advanced Electroencephalography	4
NDT A116	Clinical Experience 1	3.5
NDT A190	Introduction to Neuro Anatomy and Physiology	3
NDT A191	EEG Record Review-Normal	1
NDT A287	EEG Record Review-Abnormal	1.5
Units		13

Summer		
NDT A117	Clinical Experience 2	3
Units		3

Year 2		
Fall		
NDT A280	Neurologic Disorders	3
NDT A284	Introduction to Transcranial Doppler	1
NDT A285	Introduction to Nerve Conduction Velocity	1
NDT A286	Clinical Experience 3	3.5

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Course	Title	Units
NDT A288	Evoked Potentials	4
	Units	12.5
Spring		
NDT A289	Clinical Experience 4	2
NDT A296	Introduction to Intraoperative Monitoring	2
NDT A297	Microcomputer Applications in Neurodiagnostics	2
NDT A298	Clinical Internship	1
PSG A100	Polysomnography Basics	1
	Units	8
	Total Units	48.5

Course	Title	Units
PSG A285	Polysomnography Internship	2
	Units	12
	Total Units	25.5

Requirement	Units
Program Major Units	56
AS General Education Option 1, 2, or 3	Varies
Total Minimum Degree Units	71

Neurodiagnostic Technology Suggested Electives

Course	Title	Units
CMST A100	Interpersonal Communication	3
ELEC A140	Technical Electronics	3
HMDV A180	Child Growth and Development	3
MA A289	Clinical Medical Assisting II Specialty Procedures	0.5
PHIL A120	Ethics	3
PHYS A110	Conceptual Physics	3
PSYC A160	Statistics for the Behavioral Sciences	4
SPAN A180	Elementary Spanish 1	5

Polysomnography Cross-Training Option

This option is recommended for Neurodiagnostic Technology graduates who would like to cross-train as Polysomnographic Technologists. Upon completing the cross-training courses, students will earn an additional AS in Polysomnography.

Program Option Prerequisites

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Course	Title	Units
Year 1		
Fall		
PSG A150	Introduction to Polysomnography	3
PSG A160	Polysomnography Testing	2
PSG A165	Polysomnography Clinical 1	1
PSG A170	Polysomnographic Practice	0.5
RSPC A185	Respiratory Anatomy and Physiology	3
RSPC A265	Pulmonary Pathology	3
Intersession		
PSG A175	Polysomnography Clinical 2	1
	Units	13.5
Spring		
HMDV A180	Child Growth and Development	3
PSG A250	Polysomnography Record Review	2
PSG A260	Advanced Polysomnography	2
PSG A265	Polysomnography Clinical 3	2
PSG A270	Physician Lecture Series	1