

NEURODIAGNOSTIC TECHNOLOGY

Associate in Science Degree

Neurodiagnostic Technology (previously known as EEG and nationally referred to as Electroneurodiagnostic Technology – END) 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.

Competencies in the three learning domains are measured by various means in the course and clinical work and overall learning outcomes are documented by the graduate competencies. As a CAAHEP-accredited END Program, this 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 Outcome

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.

Program Admission:

- Allied Health 010 course – application and orientation
- The student must complete Associate of Science degree Mathematics and General Education requirements and the program prerequisites prior to acceptance to the program.

Program prerequisites:

Health Occupations	ALH	A010	(.5)
Anatomy-Physiology	BIOL	A221	(4)
Subtotal:			(4.5)

Recommended preparation:

Intro to Computer Appl	CIS	A100	(3)
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Required Courses

Course			Units
FALL			
Medical Terminology	ALH	A111	(3)
Patient Care	ALH	A115	(2.5)
Applied Pharmacology	ALH	A130	(2)
Basic EEG	NDT	A110	(4)
INTERSESSION			
Neurodiagnostic Lab Practice	NDT	A200	(.5)
SPRING			
Human Diseases	ALH	A120	(2)
Advanced EEG	NDT	A115	(4)
Clinical Experience 1	NDT	A116	(3.5)
Neuro Anatomy & Physiology	NDT	A190	(3)
EEG Record Review-Normal	NDT	A191	(1)
EEG Record Review-Abnormal	NDT	A287	(1.5)
SUMMER			
Clinical Experience 2	NDT	A117	(3)
FALL			
Neurologic Disorders	NDT	A280	(3)
Intro Transcranial Doppler	NDT	A284	(1)
Intro Nerve Conduction Velocity	NDT	A285	(1)
Clinical Experience 3	NDT	A286	(3.5)
Evoked Potentials	NDT	A288	(4)
INTERSESSION			
Neurodiagnostic Lab Practice	NDT	A200	(.5)
SPRING			
Clinical Experience 4	NDT	A289	(2)
Intro to Intraoperative Monitoring	NDT	A296	(2)
Microcomputer Applications	NDT	A297	(2)
Clinical Internship	NDT	A298	(1)
Polysomnography Basics	PSG	A100	(1)
			(51)
Total:			(55.5)

Students are required to earn a grade of "C" or better in all program courses and prerequisites.

Suggested electives:

Technical Electronics	ELEC	A140	(3)
Technical Writing & Critical Reasoning	ENGL	A105	(3)
Child Growth & Development	HMDV	A180	(3)
Specialty Procedures	MA	A289	(1)
Ethics	PHIL/RLST	A120	(3)
Conceptual Physics	PHYS	A110	(3)
Statistics for Behavioral Sci	PSYC	A160	(3)
Elementary Spanish 1	SPAN	A180	(5)
Interpersonal Communication	CMST	A100	(3)

This program is fully accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP).

NEURODIAGNOSTIC TECHNOLOGY UPGRADE

The courses required in this professional upgrade certificate are intended for the advanced neurodiagnostic student or for technologists working in the field of electroneurodiagnostic technology. The required courses reflect the most recent industry changes, and many have listed required prerequisites. Certificates will be awarded through the Consumer and Health Sciences division office.

CERTIFICATE OF SPECIALIZATION

Required Courses

Course			Units
Intro to Intraoperative Monitoring	NDT	A296	(2)
Microcomputer Applications	NDT	A297	(2)
Polysomnography Basics	PSG	A100	(1)

Subtotal: (5)

Select one (1) course from the following:

Intro Transcranial Doppler	NDT	A284	(1)
Intro Nerve Conduction Velocity	NDT	A285	(1)
Statistics for Behavioral Sci	PSYC	A160	(3)

(1-3)

Total: (6-8)

NUTRITION RELATED CAREERS

--See *DIETETICS, NUTRITION CAREERS*

NUTRITION CAREERS

Students who graduate from our programs are prepared for entry level positions in nutrition. This industry is experiencing rapid growth and has a growing demand for trained nutrition personnel. The employment outlook is excellent. Students interested in this field have three options.

1. Community Nutrition Assistant.

This certificate prepares student to work in community agencies such as WIC (Women, Infants, and Children) programs under the direction of a Registered Dietitian.

2. Nutrition Education.

Students who graduate from this program are prepared for employment in weight control clinics, schools, community agencies concerned with nutrition, manufacturers and distributors of nutrition related products.

3. Nutrition and Fitness Education.

Students who graduate from this program are prepared for entry-level positions in the booming health and fitness industry, encompassing weight control clinics, sports medicine clinics, health clubs and gyms, personal training facilities, corporate fitness and wellness centers, fitness and nutrition programs in schools, and community agencies concerned with health fitness and nutrition education.

Completion of the Core Curriculum is required for all Nutrition Careers listed below. Students are required to earn a grade of "C" or better in all courses to receive a certificate.

CORE CURRICULUM

Required Courses

Course			Units
Sanitation & Safety	FSM	A160	(3)
Careers in Dietetics/Food Sci	FN/NC	A100	(1)
Applied Nutrition	FN	A171	(2)
Fitness Programs	PE	A107	(1-3)

Total: (7-9)

COMMUNITY NUTRITION ASSISTANT

This certificate prepares students to work in community agencies such as WIC (Women, Infants, and Children) and Head Start programs as nutrition assistants.

Program Outcome

Graduates will be competent entry-level Nutrition Assistants meeting the employment needs of the community.

CERTIFICATE OF ACHIEVEMENT

Required Courses

Course			Units
Core Curriculum			(7-9)
Intro to Nutrition Concepts	FN	A140	(2)
Life Cycle Nutrition: Mother/Infant	FN	A144	(1)
Life Cycle Nutrition: Children	FN	A145	(1)
Cultural Foods	FN	A185	(2)
Intermediate Nutrition Care	NC	A280	(2)
Supervised Practice	NC	A281	(3)

Subtotal: (18-20)

Select one (1) from the following:

Cooking Essentials	FN	A120	(1)
Vegetarian Cuisine	FN	A125	(1)
Cooking Lite	FN	A173	(1)

Total: (19-21)

ASSOCIATE DEGREES

Complete the Certificate of Achievement and the Associate in Science Graduation Requirements as outlined in the Graduation Requirements section of the catalog.

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NUTRITION EDUCATION

Students who graduate from this program are prepared for employment in one of the fastest growing and most prolific industries in Southern California, encompassing weight control clinics, health and exercise spas and gymnasiums, community agencies concerned with nutrition education, and manufacturers and distributors of nutritionally related products.

Program Outcome

Graduates will be competent entry-level Nutrition Education Assistants meeting the employment needs of the community.

CERTIFICATE OF ACHIEVEMENT

Required Courses

Course			Units (7-9)
Core Curriculum			
Anatomy & Physiology	BIOL	A221	(4)
Nutrition	FN	A170	(3)
Principles of Food	FN	A180	(3)
Cultural Foods	FN	A185	(2)
Intro to Med Nutrition Therapy	NC	A180	(3)
Intermediate Nutrition Care	NC	A280	(2)
Supervised Practice 1	NC	A281	(3)

Subtotal: (27-29)

Select one (1) from the following:

Cooking Essentials	FN	A120	(1)
Vegetarian Cuisine	FN	A125	(1)
Cooking Lite	FN	A173	(1)

Total: (28-30)

Suggested electives:

Intro Display & Visual Presentation	DVP	A180	(3)
Nutrition/Fitness/Performance	FN	A136	(3)
Current Issues Food/Nutr/Food Sci	FN	A199	(.5-1)
Child Growth & Development	HMDV	A180	(3)
Professional Selling	MKTG	A110	(3)

ASSOCIATE DEGREES

Complete the Certificate of Achievement and the Associate in Science Graduation Requirements as outlined in the Graduation Requirements section of the catalog.

See *Dietetics* for related certificate.

NUTRITION AND FITNESS EDUCATION

Students who graduate from this program are prepared for entry-level positions in the booming health and fitness industry, encompassing weight control clinics, sports medicine clinics, health clubs and gyms, corporate fitness and wellness centers, fitness and nutrition programs in schools, and community agencies concerned with health, fitness and nutrition education.

Students in this program will be able to advise clients on normal nutrition, weight control

and improved performance by working with other nutrition professionals. The fitness industry is experiencing rapid growth and has a growing demand for trained fitness and nutrition educators. The employment outlook is excellent.

Program Outcome

Graduates will be competent entry-level Nutrition and Fitness professionals meeting the employment needs of the community.

CERTIFICATE OF ACHIEVEMENT

Required Courses

Course			Units (7-9)
Core Curriculum			

FIRST SEMESTER

Anatomy & Physiology	BIOL	A221	(4)
Nutrition/Fitness and Performance	FN	A136	(3)

SECOND SEMESTER

Life Cycle Nutrition: Children	FN	A145	(1)
Cultural Foods	FN	A185	(2)
Intro to Med Nutrition Therapy	NC	A180	(3)
Fitness and Health	PE	A134	(3)

THIRD SEMESTER

Intermediate Nutrition Care	NC	A280	(2)
Supervised Practice 1	NC	A281	(3)
Fitness and Exercise Testing	PE	A284	(3)

Total: (31-33)

RECOMMENDATION

Combine the Nutrition and Fitness Assistant Certificate with the Fitness Specialist Certificate.

ORNAMENTAL HORTICULTURE

The Ornamental Horticulture program prepares students for many attractively paying positions in the nursery industry. These positions include those in production and sales, interior plantscaping, landscape design, and construction and maintenance.

Students may take one or more courses from the program to learn about horticulture for its own sake and for theirs, or they may take the courses required for the Certificate of Achievement in Ornamental Horticulture. Either option is an introduction to natural beauty. The courses have been designed both for full-time students planning to enter the horticulture field and for those people working in one of the many interesting areas of horticulture who wish to expand their horticultural knowledge. Most classes are conducted during convenient evening hours to allow working students to study for a new career and those with jobs in the field of ornamental horticulture to upgrade their skills.

The Ornamental Horticulture Department boasts excellent facilities, including a well-equipped classroom building set in beautifully landscaped grounds. The grounds themselves have been planted with a large collection of trees, shrubs, ground covers, and