

Foothill College Neurodiagnostic Technology Program Application

NAME: _____

 Last First Middle

Foothill College Student **CWID # (required)** *If you do not have a FH student CWID#
visit here to register for the college: <http://www.foothill.edu/reg> There is no cost involved to get a CWID#.

Please list any other name(s) by which you have been known:

Address	City	State	Zip
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Home Phone _____ Cell Phone _____

Email

Have you previously applied to the Foothill College Neurodiagnostic Technology Program? Yes No

Dates of previous applications: _____

Have you previously attended any Neurodiagnostic Technology Program?	Yes	No

If yes, list the school and the reason you left the program: School name: _____

Reason: _____

PRIOR EDUCATION

High school attended: _____ Year Graduated: _____

ALL colleges (including Foothill & De Anza), universities, technical and vocational schools attended: list the name, starting and ending dates, and any degrees or certificates received. You must include colleges in which courses were attempted although they may not have been completed. **Do not leave this area blank.**

	Name of College/University	City and State	Dates Attended	Degree Received
1				
2				
3				
4				
5				

FOOTHILL COLLEGE NEURODIAGNOSTIC TECHNOLOGY WORKSHEET

PREREQUISITE COURSES MUST BE COMPLETED WITH A “C” GRADE OR HIGHER:

(Please provide complete information for the courses you took in each category as reflected on your official transcript)

***All prerequisites and coursework MUST be completed in order to apply.**

	Course Completed (ex: MATH 49)	College	Semester or Quarter Units?	Year Earned	Grade
ENGL C1000, C1000H, ESLL 26					
MATH 40A or equivalent - if using HS AP score of 3 or higher, <u>test results must be attached.</u>					
CHEM 30A, or CHEM 25, or <u>ANY</u> equivalent course that includes in-person lab completed with a grade of “C” or higher.					
AHS 52 or AHS 200 or <u>ANY</u> Medical Terminology course 3 quarter units, or 2 semester units or more, with a grade of “C” or higher.					
In Person NDT Information Session			Quarter completed: F W SP SU OR Petitioned Year:		
Minimum Cumulative College GPA of 2.0 or higher.	Yes No				
Anatomy & Physiology (BIOL 40 A), or semester of Anatomy & semester of Physio with in-person labs					
Anatomy & Physiology BIOL 40B					
Anatomy & Physiology BIOL 40C					
If additional Anatomy and Physiology courses were taken to obtain a 2.5 GPA, please list them here.					
Minimum Cumulative Human Anatomy & Physiology GPA of 2.5 or higher.	Yes No				
	Equivalent Course (ex: Comm 22)	College	Semester or Quarter Units?	Year Earned	Grade
COMM 2 – Interpersonal Communication, completed with a grade “C” or higher.					

Have you completed the required prerequisites? YES NO

*****All prerequisite coursework MUST be completed before applying.**

GENERAL EDUCATION REQUIREMENTS

All General Education courses must be completed to earn the Associate of Science degree in Neurodiagnostic Technology; otherwise the student will not be eligible to sit for the ARRT national certification exam to become licensed. Due to the rigorous course load during the Neurodiagnostic program, it is **strongly recommended** that all applicants complete their General Education courses prior to applying for/starting the program.

There are 3 ways to satisfy the General Ed. Requirements, check one only:

1. AA or AS from a California community college (GE waived). **Move on to the next page.**
2. BA or BS Degree from an accredited U.S. College or University (GE waived). **Move on to the next page.**
3. You have not completed a college degree, but you have completed the following GE courses:

If you indicated number 3 above, you must fill in the table below with the GE coursework you have completed to date or is in progress. Please provide complete information in each category. See Foothill College Catalog & Neurodiagnostic Curriculum Sheet for help.

If you indicated numbers 1 or 2 above, leave this area blank and continue on to the next page.

General Education Associate Degree & Other Required Courses:	Course (Ex:Math 40A)	College	Sem/Qtr & Year	Units	Grade
AREA 1A – ENGLISH COMPOSITION					
AREA 1B – ORAL COMMUNICATION & CRITICAL THINKING					
AREA 2 – MATHEMATICAL CONCEPTS & QUANTITATIVE REASONING					
AREA 3 – ARTS & HUMANITIES					
AREA 4 - SOCIAL & BEHAVIORAL SCIENCES					
AREA 5 - NATURAL SCIENCES					
AREA 6 – ETHNIC STUDIES					
AREA 7 - LIFELONG LEARNING (HLTH21 recommended)					

TECHNICAL STANDARDS FOR THE FOOTHILL COLLEGE NEURODIAGNOSTIC TECHNOLOGY PROGRAM

In the interest of your own personal safety, the safety of your patients, and the potential liability to the college, there are significant requirements that must be met before your admission to the program is finalized. The attendance requirements and stamina demands on the Neurodiagnostic Technology student require student technologists to be in good physical and mental health. Please read this form carefully and initial each technical issue standard if you can comply with the standard.

ISSUE	DESCRIPTION	STANDARD	EXAMPLES OF NECESSARY ACTION	✓
Hearing	Use of auditory sense.	Auditory ability sufficient to monitor & assess patient health needs.	Ability to hear & verbally respond to patient questions & directions from instructors, students, physicians and staff in person or over the phone. Hear blood pressure.	☐
Visual	Use of sight.	Visual ability sufficient for observation and assessment necessary in Neurodiagnostic Technology.	Observe patients during neurodiagnostic procedures; accurately measure and apply electrodes; assess electrode placement and skin integrity; monitor patient behavior and neurological responses; identify waveform morphology, artifacts, and technical quality on EEG and other neurodiagnostic recordings; verify proper equipment function and data acquisition throughout testing.	☐
Tactile	Use of touch.	Tactile ability sufficient for patient assessment and the safe operation of neurodiagnostic instruments and equipment.	Perform patient assessment; measure, mark, and apply electrodes; prepare the scalp and maintain electrode integrity; manipulate recording equipment, cables, and accessories; operate neurodiagnostic instrumentation safely and accurately while maintaining patient comfort.	☐
Mobility	Physical ability, strength & stamina.	Physical abilities and stamina sufficient to perform the required functions of patient care and neurodiagnostic procedures.	Lift, carry, or move objects weighing up to 50 pounds; stand for extended periods; assist with patient transfers and positioning; reach overhead and around patient care equipment; transport and position portable EEG equipment and supplies in various clinical settings, including intensive care units and operating rooms.	☐
Motor Skills	Physical ability, coordination, dexterity.	Gross & fine motor abilities sufficient to provide safe & effective patient care.	Perform precise measuring, marking, and electrode application; manipulate small electrodes, collodion applicators, conductive paste, and instrumentation; operate computers and neurodiagnostic equipment; respond quickly during patient events while maintaining recording quality and patient safety.	☐
Communication	Speech, reading, writing Effective use of English language. Communication abilities sufficient for effective interaction in verbal, nonverbal & written form.	Comprehension & accurate recall of verbal & written communication Interaction with patients, families, students, instructors, physicians & staff. Effectively understanding verbal & nonverbal behavior.	Concisely & precisely explain treatment & procedures, interpret patients response and provide documentation following ethical & legal guidelines.	☐
Interpersonal	Ability to relate to others	Abilities sufficient to effectively interact with individuals, families, groups & colleagues from a variety of social, emotional, cultural, intellectual & economic backgrounds. Identify needs of others.	Establish rapport with patients, families, and colleagues.	☐
Behavioral	Emotional & mental stability.	Functions effectively under stress.	Flexible, concern for others. Ability to provide a safe patient care environment with multiple interruptions, noises, distractions, and unexpected patient needs.	☐
Critical Thinking	Ability to problem solve.	Critical thinking ability sufficient for clinical judgment.	Identify cause-effect relationships in clinical situations.	☐

Neurodiagnostic Technology

Program Specifications

It is essential that Neurodiagnostic students be able to perform a number of physical activities in the clinical portion of the program. At a minimum, students will be required to partially lift patients, stand for several hours at a time, and perform bending activities. The Neurodiagnostic Technology Program experience also places students under considerable mental and emotional stress as they undertake responsibilities and duties that impact patients' lives. Students must be able to demonstrate rational and appropriate behavior under stressful conditions. Individuals should give careful consideration to the mental and physical demands of the program prior to making application.

<u>Function Number</u>	Essential Functions
1	Communicate effectively with patients, family and other health care personnel.
2	Take and abstract histories.
3	Apply correct recording electrodes and use correct technique as indicated by each patient's specific problem.
4	Document the clinical conditions of patients.
5	Understand and employ the optimal utilization of neurodiagnostic equipment.
6	Understand the interfacing of EEG/EP equipment and other neurodiagnostic devices, including a thorough understanding of personal and patient electrical safety.
7	Recognize and understand the neurodiagnostic activity displayed.
8	Recognize, correct, and/or identify artifacts.
9	Manage medical emergencies in the laboratory.
10	Recognize and correct instrument faults.
11	Prepare a descriptive report of recorded activity for the physician.

FHC reaffirms its policy of equal opportunity regardless of race, color, creed, religion, national origin, sex, sexual orientation, age, marital status, disability, or status as a disabled veteran <https://foothill.edu/student-handbook/discrimination-protection.html>

<u>Physical Factors</u>	<u>Yes</u>	<u>No</u>	<u>Essential Functions</u> <u>Numbers</u>
Standing	*		3
Walking	*		3
Sitting	*		2,3
Lifting			
• 10 lbs.	*		5
• 20 lbs.	*		5
• 50 lbs.	*		5
• 100 lbs.		*	
• 100 lbs.+		*	
Carrying			
• 10 lbs.	*		5
• 20 lbs.	*		5
• 50 lbs.	*		5
• 100 lbs.		*	
• 100 lbs.+		*	
Pushing/Pulling			
• 10 lbs.	*		5
• 20 lbs.	*		5
• 50 lbs.	*		5
• 100 lbs.		*	
• 100 lbs.+		*	
Climbing	*		3
Balancing	*		3
Bending	*		3
Stooping	*		3
Crouching	*		3
Kneeling	*		
Crawling		*	
Running		*	
Twisting	*		3
Turning	*		3
Jumping		*	3
Grasping-Firm/Strong	*		3
Grasping-Light	*		3
Finger Dexterity	*		3
Reaching Forward	*		3,5
Reaching Overhead	*		3
Pinching	*		7
Simultaneous use of hand, wrist, fingers (e.g. typing, data entry)	*		7,11
Coordination			
• Eye-hand	*		3,7
• Eye-hand-foot	*		3
Driving		*	
Vision			
• Acuity, Near	*		3,7
• Acuity, Far	*		3,7

• Depth perception	*		3
• Accommodation	*		3
• Color vision		*	
• Field of vision	*		3
• Face-to-face conversation	*		1,3
Verbal conversation with others	*		1,2,3
Hear normal conversation	*		1,2,3
Hear telephone conversation	*		1,2,3

<u>Cognitive/Mental Factors</u> <u>Reasoning</u>	<u>Yes</u>	<u>No</u>	<u>Essential Functions</u> <u>Numbers</u>
Deal with abstract and concrete variable, define Problems, collect data, establish facts and draw valid conclusions	*		1-11
Interpret instructions furnished in oral-written, diagrammatic, or schedule form	*		1-11
Deal with problems from standard situations	*		1-11
Carry out detailed but uninvolved written or oral instructions	*		1-11
Carry Out one or two step instructions	*		1-11
Mathematics Complex skills – Business math, algebra, geometry or statistics	*		
Simple “skills” – add, subtract, multiply and divide whole numbers and fractions, calculate time and simple measurements	*		3,6,11
Reading Complex skills – Comprehend newspapers, manuals, journals, instructions in use and maintenance of equipment, safety rules and procedures and drawings	*		2,5,6,7,10,11
Simple skills – Comprehend simple instructions or notations from a log book	*		3,4,6,7,8,10,11
Writing Complex skills – Prepare business letters, report summaries using prescribed form at and conforming to all rules of punctuation, spelling, grammar, diction and style	*		2,4,7,8,11
Simple skills – English Sentences containing subject, verb and object; names and addresses, complete job application or notations in log book	*		1,2,3
Perception Spatial – ability to comprehend forms in space and understand relationships of plane and solid objects; frequently described as the ability to “visualize” objects of two or three dimensions, or to think visually of geometric forms	*		3,7,8
Form – ability to perceive pertinent detail in objects or in pictorial or graphic material; to make visual comparisons and discriminations and see slight differences in shapes and shadings of figures and widths and lengths of line	*		2,4,7,8
Clerical – ability to perceive pertinent detail in verbal or tabula; material; to observe differences in copy, to proofread words and numbers and to avoid perceptual errors in arithmetic computation	*		2,7

Data Synthesizing	*		2
Coordinating	*		2,4,6,7,8,11
Analyzing	*		2,4,6,7,8,11
Compiling	*		2,4,6,7,8,11
Computing	*		2,4,6,7,8,11
Copying	*		2,7,11
Comparing	*		3,4,5,6,7,8,10
Public speaking	*		
Personal traits Ability to comprehend and follow instructions	*		1-11
Ability to perform simple and repetitive tasks	*		1-11
Ability to maintain a work pace appropriate to a given work load	*		1-11
Ability to relate to other people beyond giving and receiving instructions	*		1-11
Ability to influence people	*		1-11
Ability to perform complex or varied tasks	*		1-11
Ability to make generalizations, evaluations or decisions without immediate supervision	*		1-11
Ability to accept and carry out responsibility for direction, control and planning	*		1-11

<u>Environmental Factors</u>	<u>Yes</u>	<u>No</u>	<u>Essential Functions Numbers</u>
Works indoors	*		1-11
Works outdoors		*	
Exposure to extreme hot or cold temp		*	
Working at unprotected heights		*	
Being around moving machinery		*	
Exposure to marked changes in temperature/humidity		*	
Exposure to dust, fumes, smoke, gases, odors, mists or other irritating particles (specify) (Ethylene oxide gas)	*		3
Exposure to toxic or caustic chemicals	*		3
Exposure to excessive noises		*	
Exposure to radiation or electrical energy		*	
Exposure to solvents, grease or oils		*	
Exposure to slippery or uneven walking surfaces		*	
Working in confined spaces	*		2,3,4,5
Using computer monitor	*		7
Working with flammable materials	*		3
Exposure to vibration		*	
Exposure to flames or burning items		*	
Works around others	*		1,2,5,6
Works alone	*		1,2,5,6
Works with others	*		1-7,9,10,11
Safety Equipment (Required to wear) Safety glasses		*	
Face mask/face shield	*		3
Ear plugs		*	
Hard Hat		*	
Protective Clothing	*		3,6

NEURODIAGNOSTIC TECHNOLOGY PROGRAM

Essential Functions Student Signature Page To Be

Completed Before Program Entry

____ Yes ____ No

I have read and I understand the Essential Functions relative to the program.

____ Yes ____ No

I am able to meet the Functional Ability standards as specified and do not need any reasonable accommodation to meet those standards at this time.

____ Yes ____ No

I require the following reasonable accommodation(s) to meet the Functional Ability standard as specified:

Name of Student: (Please Print) _____

Signature of Student: _____

Date: _____

Neurodiagnostic Technology Application Checklist

X	Please make a X or attach the documents in the available box/es to insure you have completed everything in your application. Note: the documents you upload must be PDF files.
☐	I fully read the Neurodiagnostic Technology Online Application Instructions before applying. (Required)
☐	I accurately filled the Neurodiagnostic Technology Online Application and meet the Technical Standards. (Required)
☐	I accurately filled the Neurodiagnostic Technology Online Application and meet the Program Specification Essential Functions. (Required)
☐	I've ordered official electronic transcripts from all colleges and universities attended. Request e-transcripts be sent directly to Foothill College Admissions and Records: <i>fhtranscripts@fhda.edu</i>. (Required) *If your college does not offer official electronic transcripts, please order official transcripts and have them mailed directly to Foothill College Admissions and Records. Note: You don't have to order Foothill and De Anza college transcripts.
	Attach a PDF copy of your approved NDT Information Session petition packet, if applicable. Other: Attach any other documents that may need to be considered with your application, such as: reciprocity agreements, CSU/IGETC, or local non-transfer GE pattern completion, AP scores or any other documentation you want to include.

Please review your application thoroughly, before signing it.

Signing the application will submit your application.

To submit your application, please sign it. No changes will be allowed after you have signed the application. Applicants may submit one application per year. Please make sure to review your application thoroughly, for accuracy. This is very important. If you do not receive a confirmation within 1 hour, re-submit. Any inaccuracies in the application could result in disqualification.

You will be emailed a confirmation and copy of the application for your records. Please review the email you have provided.

My signature verifies the accuracy of my application:

Signature

Printed Name

Date