

Program Information

ALVIN COMMUNITY COLLEGE

Neurodiagnostic (NDT) Program

Associate Applied Science

2021 Application Deadline July 1

For more information

[http://www.alvincollege.edu/neurodiagnostic-
technology/index.html](http://www.alvincollege.edu/neurodiagnostic-technology/index.html)



2020 GENERAL PROGRAM AND APPLICATION INFORMATION

The Program Begins Fall Semester of 2021

- For complete requirements and course information, please see our Alvin Community College Catalog. <http://www.alvincollege.edu/catalog/index.html>
- Only Applicants who have been accepted into Alvin Community College with official transcripts on file will be considered.
- Application Period begins **April 1**.
- Early Acceptance Application Deadline is **May 1**.
- Final Application Deadline is **July 1**.
 - Approximately 2-4 Weeks after each application deadline, we will **email** you whether you are conditionally accepted, on the alternate list, or neither of these.
 - *Email is the official means of communication from ACC to students.*
- After acceptance, applicant **must** complete a physical examination, meet immunization requirements, pass a background check, clear drug screening, provide proof of medical insurance, and attend the NDT Program Orientation. Details on when and where to complete these will be provided in the acceptance Email.

General Program Commitment (subject to change)

Weekly Commitment	On- Campus	Clinical Site
1 st semester Fall 2021	M/W/F (Day)	
2nd semester Spring 2022	Tuesday Morning (ENDT 2320) T/TH Remaining Academic Courses	M/W Full Day (ENDT 1463)
3 rd Semester Summer 2022	Tuesday (ENDT 2215 and 2425)	M/W Full Day (ENDT 2463)
Final Semester Fall 2022	One Thursday Evening Course- ENDT 2210	M/T/Th Full Day (ENDT 2661)

Clinical Requirement

- Students will rotate through about 4-5 hospitals in the Medical Center and Greater Houston Area
- Student must provide own transportation to the clinical sites and pay for parking/public transportation (where applicable)
- Clinical Sites are chosen and assigned by the Clinical Coordinator

NDT Program Contact Information

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Program Director

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**Alvin Community College
Technical Standards for Neurodiagnostic Technology Program**

General Job Description

Qualified applicants are expected to meet all admission criteria as well as essential functions. **Students requesting reasonable accommodations to meet these criteria must inform the Program Chair in writing of the need for accommodations at the time of admission. The student is expected to contact the ADA counselor in the new ESC (Enrollment Services Center) to file the appropriate forms documenting the need for accommodations.**

FUNCTIONAL ABILITY CATEGORY	REPRESENTATIVE ACTIVITY/ATTRIBUTE	EXAMPLES
GROSS MOTOR SKILLS	<ul style="list-style-type: none"> • Move within confined spaces • Sit and maintain balance • Stand and maintain balance • Reach above shoulders • Reach below waist 	Stand to perform patient preparation for NDT exam. Raise/ lower arms and bend at waist or knees while applying electrodes and sensors.
FINE MOTOR SKILLS	<ul style="list-style-type: none"> • Pick up objects with hands • Grasp small objects with hands • Write with pen or pencil • Key/type • Pinch/pick or otherwise work with fingers • Twist • Squeeze with finger 	Grasp electrodes and sensors with hands during patient preparation. Type patient information into NDT software with keyboard. Document on paper tech notes. Change settings computer software with computer mouse. Troubleshoot equipment by turning knobs and changing wires then observing improvements.
PHYSICAL ENDURANCE	<ul style="list-style-type: none"> • Sustain repetitive movements • Maintain physical tolerance for 8 or 12 hour periods • Ability to perform activities day, afternoon, evening and night. 	Sitting in chair for long periods. Repetitive key strokes on keyboard while staging and scoring a NDT exam. Sit or stand for 8-12 hours shifts. Stand and perform repetitive procedure(s) on patients such as CPR.
PHYSICAL STRENGTH	<ul style="list-style-type: none"> • Push and pull 25 pounds • Support 25 pounds • Lift 25 pounds • Carry equipment/supplies • Use upper body strength • Squeeze with hands 	Assist patient from bed to chair. Hoist patient up in bed. Move patient from stretcher to bed and back.
MOBILITY	<ul style="list-style-type: none"> • Twist • Bend • Stoop/squat • Move quickly • Climb • Walk 	Bend to change equipment settings on floor, at knee level, waist level, chest level, eye level, above head. Make rapid adjustments if needed to ensure patient safety. Respond to patient quickly.

HEARING	<ul style="list-style-type: none"> • Hear normal speaking level sounds • Hear faint voices • Hear in situation when not able to see li • Hear auditory alarms 	Hear audible alarms. Hear patient over intercoms. Hear patients in dark rooms.
VISUAL	<ul style="list-style-type: none"> • See objects up to 20 inches away • See objects up to 20 feet away • Use depth perception • Use peripheral vision • Distinguish color • Distinguish color intensity • See objects and read in low lighted areas 	Read patient chart to determine correct therapy. Visually assess patient color to assess for hypoxia. Read settings on monitors and other equipment. Visually assess for changes in dimly lighted patient and control rooms. Confirm settings visually such as with ventilator display.
TACTILE	<ul style="list-style-type: none"> • Feel vibrations • Detect temperature • Feel differences in surface characteristics • Feel differences in sizes, shapes • Detect environmental temperature 	Assess patient by feeling for patient pulse and O2 Saturation using pulse oximetry.
SMELL	<ul style="list-style-type: none"> • Detect odors from patients • Detect smoke • Detect gases or noxious smells 	Assess for noxious odors originating from the patient or environment (example gas leak or smoke).
READING	<ul style="list-style-type: none"> • Read and understand written documents 	Read and interpret physician orders, physician, therapist and nurses notes. Read from a computer monitor screen. Gather data reasonably accurate, and in a reasonable amount of time to ensure safe and effective patient care relative to other care givers.
MATH COMPETENCE	<ul style="list-style-type: none"> • Read and understand columns of writing • Read digital displays • Read graphic printouts • Calibrate equipment • Convert numbers to and/or from the Metric System • Read graphs • Tell time • Measure time • Count rates • Use measuring tools • Read measurement marks • Add, subtract, multiply, and/or divide whole numbers • Compute fractions • Use a calculator • Write numbers in records 	Read and interpret patient graphics charts and graphic displays. Perform basic arithmetic functions in order to calculate head measurements using 10-20 system. Convert time given in minutes into hours and minutes.

EMOTIONAL STABILITY	<ul style="list-style-type: none"> • Establish appropriate emotional boundaries • Provide emotional support to others • Adapt to changing environment/stress • Deal with the unexpected • Focus attention on task • Monitor own emotions • Perform multiple responsibilities concurrently • Handle strong emotions 	Provide for safe patient care despite a rapidly changing and intensely emotional environment. Perform multiple tasks concurrently. Maintain enough composure to provide for safe and effective patient care despite crisis circumstances.
ANALYTICAL THINKING	<ul style="list-style-type: none"> • Transfer knowledge from one situation to another • Process information • Evaluate outcomes • Problem solve • Prioritize tasks • Use long-term memory • Use short-term memory 	Evaluate different sources of diagnostic information to help arrive at a patient diagnosis. Evaluate priorities in order to provide for the most appropriate care. Appropriately evaluate data in order to notify physician and nursing when necessary.
CRITICAL THINKING	<ul style="list-style-type: none"> • Identify cause-effect relationships • Plan/control activities for others • Synthesize knowledge and skills • Sequence information 	Evaluate different sources of diagnostic information to help arrive at a patient diagnosis and treatment. Evaluate data in order to formulate an appropriate action plan.
INTERPERSONAL SKILLS	<ul style="list-style-type: none"> • Negotiate interpersonal conflict • Respect differences in patients, fellow students, and members of the healthcare team. • Establish rapport with patients, fellow students, and members of the healthcare team. 	Communicate effectively with disagreeable patients, family doctors, and nurses and other staff in order to attempt to meet therapeutic goals for the patient.
COMMUNICATION SKILLS	<ul style="list-style-type: none"> • Teach • Explain procedures • Give oral reports • Interact with others • Speak on the telephone • Influence people • Convey information through writing 	Communicate effectively and appropriately with doctors, nurses, patients, family, and other staff in order to provide for most effective and efficient patient care.

IMMUNIZATION REQUIREMENTS

To enter Neurodiagnostic Technology Program at Alvin Community College the following immunizations/tests are required. (Required by State Law/Clinical Facilities)

PRIOR TO APPLICATION:

Hepatitis B Vaccine: Proof of completion of the hepatitis B vaccination series or serologic confirmation of immunity to hepatitis B is required as a condition of full acceptance to the program.

This is a series of 3 shots and can take up to 6 months to complete. We must see documentation of at least the **first two** immunizations at time of application. Documentation of the third vaccination must be provided.

Post-vaccination antibody titer testing may be required.

AFTER ACCEPTANCE:

Tuberculin Test (PPD): * Once in the program, repeat testing will likely be required.

Should be done close to the time you begin the program to last throughout the academic year

Chest x-ray required if PPD is positive (include signed copy of chest x-ray results).

Varicella (Chicken pox):

Vaccination with two doses of Varicella vaccine administered 4-8 weeks apart.

OR

Serologic test positive for Varicella antibody. (Attach laboratory proof of varicella immunity)

MMR (measles mumps and rubella)

Vaccination with two doses of MMR vaccine administered at least 28 days apart

OR

Serologic test positive for MMR antibodies. (Attach laboratory proof of MMR immunity)

TDaP (Tetanus, Diphtheria, Pertussis):

Immunization for TDaP administered on or after 18th birthday. (Vaccination **MUST** include Pertussis)

Seasonal Flu: REQUIRED ANNUALLY

A seasonal flu vaccine is required prior to October 1st for continued clinical participation.

Alvin Community College

NEURODIAGNOSTIC TECHNOLOGY PROGRAM

Policy for Criminal Background Screening

The purpose of this policy is to:

1. Comply with clinical affiliates who may require a student background check as a condition of their contract
2. Promote and protect patient/client safety

Conduct of Criminal Background Check

Background checks will be conducted as a condition of full acceptance into Neurodiagnostics program. The results will be accepted for the duration of the student's enrollment in the Neurodiagnostics program if the participating student has not had a break in enrollment at the college and if the student has had no disqualifying allegations or convictions while enrolled. Alvin Community College will designate the agency selected to do the criminal background screening. Results of the background check will be sent directly to the program director at each college. The student will pay the cost of the background directly to the agency. The student will sign a form indicating knowledge of this policy and their belief that they do not have any criminal history that would disqualify them from clinical rotations.

Unsatisfactory Results

A student with a significant criminal background screen will be ineligible to enroll in the Neurodiagnostics program. All criminal background information will be kept in confidential files by the investigating agency and the program director will have access to these files. A student who is convicted of a criminal offense while enrolled in the program must report the offense to the program director within three days of the conviction.

Student Rights

Students sign a release form that gives the program director the right to receive their criminal background information from the agency. If the student believes his or her background information is incorrect, the student is responsible for providing the evidence of the inaccuracy of the information to the investigating agency. The student will not be able to enroll in the Neurodiagnostics program until the question is resolved. The inability to participate in a clinical experience could prevent a student from meeting course objectives and result in failure of the course.

**ALVIN COMMUNITY COLLEGE
HEALTH PROGRAMS
Effective Date 7/5/05**

Neurodiagnostic Technology Program

POLICY FOR DRUG SCREENING

PURPOSE

- Promote And Protect Patient/Client Safety
- Comply With Clinical Affiliates Drug Screen Requirements
- Detect Illegal Drug Use

DEFINITION

Non-Negative Drug Screen: A non-negative drug screen means a medically acceptable drug test, approved by Alvin Community College, the results of which indicates the use of illegal drugs.

Illegal Drugs: Illegal drugs include those drugs made illegal to possess, consume, or sell by Texas and Federal statutes. An illegal drug also includes those drugs taken by an individual which **exceed the prescribed limits of a lawful prescription or the taking of a prescription drug prescribed for another person.**

DRUG SCREENING PROCEDURE

Drug screening is conducted on all student applicants after conditional acceptance into the program. A non-negative drug screen will bar admission to the program for a minimum of 12 months. The results of the drug screen are generally accepted for the duration of the student's **uninterrupted** enrollment in the program unless allegations are made to support reasonable cause that the student is not free of illegal drug use; with reasonable cause the student may be required to submit to further drug screening at his/her own expense. Alvin Community College will be responsible for designating and approving the drug screening procedures. The student must complete drug screening at the scheduled time. An unscheduled drug screen will result in an additional expense to the student and conducted at a time and place designated by the college. The student must pre-pay for the drug screen as directed by the Program. The student is required to complete a release directing the company/agency conducting the drug screen test to send the results directly to the Program Director.

The results reported by the company/agency conducting the drug screen is final unless the student with a non-negative drug screen, **within 10 days of learning of the non-negative drug screen**, requests review of the results from the company/agency who originally administered the drug screen. Once the company/agency reports their review finding, the results are final and not appealable.

POLICY

When the college determines that a student has a non-negative drug screen, the student is not allowed to attend any clinical agency/rotation for a minimum of twelve months and may affect his/her re-admission to the program. The student with the non-negative drug screen is required to withdraw from the clinical course and all concurrent health, nursing or allied health programs. Prior to returning to the program, the student must re-apply and be accepted to the program (including re-testing), have a negative drug screen, and provide satisfactory documentation to the college of successful drug counseling and treatment, all at the expense of the student. When a student with a non-negative drug screen is accepted back into the program he/she will be subjected to unannounced random drug screening at their expense.