# NDT A298: CLINICAL INTERNSHIP

| Item | Value |
|---|---|
| Curriculum Committee Approval Date | 10/05/2022 |
| Top Code | 121200 - Electro-Neurodiagnostic Technology |
| Units | 2 Total Units |
| Hours | 128 Total Hours (Other Hours 128) |
| Total Outside of Class Hours | 0 |
| Course Credit Status | Credit: Degree Applicable (D) |
| Material Fee | No |
| Basic Skills | Not Basic Skills (N) |
| Repeatable | No |
| Open Entry/Open Exit | No |
| Grading Policy | Pass/No Pass (B) |

## Course Description

Specialized neurodiagnostic clinical internship at an affiliate hospital site. Specialized areas may include intraoperative neurophysiologic monitoring, neonatal testing, long-term epilepsy monitoring, pediatric testing, transcranial doppler studies, nerve conduction studies and others. PREREQUISITE: NDT A286. COREQUISITE: NDT A289. Transfer Credit: CSU.

## Course Level Student Learning Outcome(s)

1. Students will be able to demonstrate the knowledge, skills and behaviors needed to successfully integrate into the Neurodiagnostic field.

## Course Objectives

- I During the time the student is assigned to the clinical internship the student will demonstrate the following behavioral objectives:
- I. 1. Demonstrate a willingness to adhere to the individual lab's policies and dress regulations.
- I. 2. Be neat and well groomed and properly identified as per college catalog.
- I. 3. Assume the responsibility for arriving on time, staying the allotted time, and notifying the department when unable to attend or if late.
- I. 4. Conduct self in an ethical manner as a health care professional.
- I. 5. Seek instruction and use criticism to improve performance.
- I. 6. Demonstrate a positive learning attitude toward department staff.
- I. 7. Maintain work areas in an orderly and clean fashion.
- I. 8. Attend 32 hours each week and if an absence is required, make arrangements to make-up missed hours.
- II During the time the student is assigned to the clinical internship the student will demonstrate the following performance objectives:
- II. 1. Explain each test procedure clearly, and relate to patients to obtain optimal cooperation.
- II. 2. Calibrate equipment used in diagnostic procedures with 100% accuracy
- II. 3. Learn the lab's routine protocols for EEG and/or EP, during the first week.
- II. 4. Report valid clinical history from patients.
- II. 5. Identify, monitor, and or eliminate artifacts recorded, with 100% accuracy.
- II. 6. Identify normal and abnormal recordings with 90% accuracy.
- II. 7. Justify appropriate recording strategy modifications when warranted with 90% accuracy.
- II. 8. Write a description of each test performed as per lab requirements and have all results reviewed by the technical staff.
- II. 9. Apply electrodes accurately with respect to each modality of testing within 5mm.
- II. 10. Ask for more responsibilities when opportunities arise to gain as much exposure to neurodiagnostic testing as possible.

## Lecture Content

This course is a clinical experience with no lecture component.

## Lab Content

This will be the final educational experience for students in the neurodiagnostic program. The course will integrate all knowledge and skills from the program and emphasize the critical thinking that is necessary on the job. Students will choose from several options for specialized areas of training, which may include: Intraoperative EP and/or EEG, Pediatric Testing, Nerve Conduction Testing, Electronystagmography, Epilepsy Monitoring, Computer Mapping, and others. Placements will be based on a typed Resume and Cover Letter. Once selections are made the student will attend 32 hours per week for 4 weeks performing and observing the specialized training at the affiliated clinical site. Students should be able to work work with minimal supervision and/or independently (general supervision) in the following areas: Clinical Training Clinical Site Infection control methods/isolation procedures Proper cleaning/disinfection and disposal of equipment NDT instrumentation Performance Objectives NDT modality electrode application Acquiring accurate and complete patient history Equipment setting controls/calibration Clinical montages Identification of artifacts with 100% accuracy Identification of normal and variant waveforms with 100% accuracy Appropriate and accurate documentation during NDT procedures Technical impressions Troubleshooting techniques Behavioral Objectives Effective time management Effective Communication with patients and family Exhibiting professional attitude towards preceptors/patients/other healthcare workers. Specialty Neurodiagnostic procedures include (assignment dependent): EP Transcranial Doppler Studies Nerve Conduction Studies IOM (Intraoperative Monitoring) Long Term Monitoring Ambulatory EEG Performance and Behavioral Evaluation Observation and evaluation of student performance/self-reflection mid-clinical End Evaluation Observation and final student evaluation in performing routine NDT exams with student's demonstration of advanced NDT techniques/skills Topics covered will vary depending on clinical assignment, but should include (if possible) performing NDT procedures on: Pediatric, Adult, intensive care and/or surgical patients.

## Method(s) of Instruction

- Lab (04)
- Field Experience (90)
- Non-Directed Clinical (NDR)

## Instructional Techniques

Students are expected to perform Neurodiagnostic testing in a clinical setting on patients under the supervision of technologists at affiliated hospitals. Procedure demonstration, return skill demonstration with continual feedback on performance.

## Reading Assignments

Students are responsible for reading, and reviewing textbook material regarding the clinical experience in the Neurodiagnostic Technology Program Student Clinical Handbook/Manual and Guidelines and Standards for NDT procedures as needed to prepare for the clinical experience. (1-2 hours/week)

## Writing Assignments

Required to make written reports of patients' clinical history, test results, testing parameters, and required record keeping in the lab. All reporting will be reviewed by technical staff and feedback will be given to the student. Prior to starting the clinical, students will write their own resume' and cover letter as an application to specialized training.

## Out-of-class Assignments

NDT Procedure Logs - students must maintain a daily procedural log of all activities observed and performed. This can be completed during or after clinical hours, as needed. (30 minutes/week)

## Demonstration of Critical Thinking

Completion of required number of clinical hours. Evaluation of student performance by clinical supervisor, based on stated objectives. Reports demonstrating technical writing skills.

## Required Writing, Problem Solving, Skills Demonstration

Required to make written reports of patients clinical history, test results, testing parameters, and required record keeping in the lab. All reporting will be reviewed by technical staff and feedback will be given to the student. Prior to starting the clinical, students will write their own resume' and cover letter as an application to specialized training.

## Eligible Disciplines

Diagnostic medical technology-diagnostic medical sonography, neurodiagnosti...: Any bachelor's degree and two years of professional experience, or any associate degree and six years of professional experience.

## Manuals Resources

1. Banoczi, W., Liang, T.. Neurodiagnostic Technology Program Student Clinical Handbook, Orange Coast College , 08-01-2022

## Other Resources

1. As required by prerequisite courses instructor prepared handouts.