END-2990: ELECTRONEURODIAGNOSTIC CAPSTONE

Cuyahoga Community College

Viewing: END-2990 : Electroneurodiagnostic Capstone

Board of Trustees:

May 2022

Academic Term:

Fall 2022

Subject Code

END - Electroneurodiagnostic

Course Number:

2990

Title:

Electroneurodiagnostic Capstone

Catalog Description:

Capstone course in Electroneurodiagnostic Technology. Assessment of one`s knowledge, experience and skills as electroneurodiagnostic technologist. Preparation and presentation of qualifications through written resume and portfolio. Guidelines and preparation for employment interview. Investigation into electroneurodiagnostic issues.

Credit Hour(s):

1

Lecture Hour(s):

1

Requisites

Prerequisite and Corequisite

END-2921 END Directed Practice III, or END-2520 Intermediate Polysomonography I.

Outcomes

Course Outcome(s):

Apply knowledge of (END) Electroneurodiagnostic, and END scope of practice to acquire an entry level position as an Electroneurodiagnostic Technologist.

Essential Learning Outcome Mapping:

Critical/Creative Thinking: Analyze, evaluate, and synthesize information in order to consider problems/ideas and transform them in innovative or imaginative ways.
Oral Communication: Demonstrate effective verbal and nonverbal communication for an intended audience that is clear, organized, and delivered effectively following the standard conventions of that language.

Objective(s):

1. List specific examples of the knowledge gained from previous electroneurodiagnostic courses.
2. Evaluate one's own interviewing skills.
3. Prepare job application letters.
4. Research and write a term paper on an electroneurodiagnostic issue of special interest to the student.
5. Cite specific examples of experiences that qualify one as an electroneurodiagnostic technologist.
6. Define specific skills or competencies that have been developed as a student in electroneurodiagnostic.
7. Prepare a neat, concise, and organized résumé.
8. Obtain letters of recommendation.
9. Create a portfolio, which lists electroneurodiagnostic technologist related accomplishments.
10. Present a personalized portfolio.
11. Prepare for and complete simulated interviews.
12. Interview electroneurodiagnostic professionals in the community to gain interviewing experience, to obtain information about human service careers, and to seek future employment.

Methods of Evaluation:

1. Written assignments
2. Oral presentation of topic of interest
3. Portfolio
4. Interviewing skills
5. Prepare job application letters
6. Research and write a term paper on an electroneurodiagnostic issue of special interest to the student
7. Cite specific examples of experiences that qualify one as an electroneurodiagnostic technologist

Course Content Outline:

1. Review of electroneurodiagnostic technology classroom experience
   a. Review of Clinical materials:
      i. EEG
      ii. EP Evoked Potentials
      iii. NCS (Nerve Conduction Studies)
      iv. IOM (Intraoperative Neurophysiological Monitoring)
   b. Technical and clinical review of registry examinations:
      i. EEG
      ii. EP
      iii. NCS
      iv. IOM
2. Review of electroneurodiagnostic technology practicum experience
   a. Self-evaluation of END technical/ clinical skills
   b. Self-evaluation of strengths and weaknesses in knowledge of END materials
3. Resume writing skills (Instruction from Key Career Place Faculty)
   a. Resume writing
   b. Cover letter writing
4. Professional portfolio/job seekiing (Instruction from Key Career Place Faculty)
   a. Professional portfolio
   b. Job seeking strategies
   c. Networking
   d. Interviewing skills
5. Case study presentation (PowerPoint presentation from each student over the course of several lectures)
   a. Case from clinical/work experience relevant to END
   b. Experience with the case involvment
   c. Test results
   d. Diagnosis

Resources

Mark H. Libenson. *Practical Approach to Electroencephalography*. 1st ed. 2010.

Aatif M. Husain. *Illustrated Manual of Clinical Evoked Potentials*. 1st ed. 2018.

American Society of Electroneurodiagnostic Technologists. *EEG Clinical Correlatives.* 2nd ed. ASET, 2000.

William H. Spriggs. *Essentials of Polysomnography: A Training Guide & Reference for Sleep*. 2nd ed.

David Preston & Barbara Shapiro. *Electromyography and Neuromuscular Disorders*. 3rd ed. 2013.

The American Academy of Sleep Medicine. "The AASM Manual for the Scoring of Sleep and Associated Events" 2.5. 2.5. 2018.

Tyner, F. S., Knott, J. R., Mayer, W. B. *Fundamentals of EEG Technology.* Raven Press, 1989.

Resources Other

1. Departmental handouts.
2. *American Journal of Electroneurodiagnostic Technology (AJET)* by the ASET; 4 issues annually; which reflects most recent changes and updates in the field.

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