

NEURODIAGNOSTICS AND SLEEP SCIENCE MINOR

Neurodiagnostic and sleep science procedures record and study the electrical activity of the brain, spinal cord, and peripheral nerves, the function of the cardiovascular system, and the function of the respiratory system. A variety of diagnostic tests are performed including recording sleep studies (polysomnograms), recording brain wave activity (electroencephalography), recording responses from peripheral nerve stimulation (nerve conduction velocities), recording stimulus evoked responses from the brain and spinal cord (evoked potentials), and monitoring brain and spinal cord activity during surgery (intraoperative monitoring). Therapeutic procedures are also performed including positive airway pressure and supplemental oxygen titration for people with certain sleep disorders such as apnea.

The minor provides undergraduate students the opportunity to obtain fundamental knowledge and exposure of neurodiagnostics needed to pursue careers in electroneurodiagnostics, polysomnography, psychology, neurology, human development and aging, allied health professions, health and disease, rehabilitation, biotechnology, biomedical research, and other emerging disciplines.

Advising

All students interested in a minor in Neurodiagnostics and Sleep Science have a primary academic advisor assigned in ConnectCarolina. Students are strongly encouraged to meet regularly with their advisor and review their Tar Heel Tracker each semester. The Division of Neurodiagnostics and Sleep Science Director of Undergraduate Studies will meet with current and prospective minor students by appointment. (See contact tab above.) Further information may be obtained from the division's website (<https://www.med.unc.edu/healthsciences/ndss/>).

Requirements

In addition to the program requirements listed below, students must:

- take at least nine hours of their minor "core" requirements at UNC-Chapel Hill
- earn a minimum cumulative GPA of 2.000 in the minor core requirements. Some programs may require higher standards for minor or specific courses.

For more information, please consult the degree requirements section of the catalog (<https://catalog.unc.edu/undergraduate/degree-requirements/>).

| Code | Title | Hours |
|--------------------------|---|-------|
| Core Requirements | | |
| NDSS 401 | Basic Neurophysiology and Sleep for Clinical Neurophysiology | 3 |
| NDSS 410 | Intro to Basic Sleep and Neurophysiology Instrumentation and Technology | 4 |
| NDSS 420 | Pathophysiology of Sleep, Neurological, and Related Disorders | 3 |
| NDSS 430 | Neurological and Sleep Diagnostic and Therapeutic Methods, and Monitoring | 3 |

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|--------------------|--|-----------|
| NDSS 530 | Leadership in Healthcare Organizations | 3 |
| Total Hours | | 16 |

Department Programs

Majors

- Clinical Laboratory Science Major, B.S. (<https://catalog.unc.edu/undergraduate/programs-study/clinical-laboratory-science-major-bs/>)
- Neurodiagnostics and Sleep Science, B.S. (<https://catalog.unc.edu/undergraduate/programs-study/neurodiagnostics-sleep-sciences-major-bs/>)
- Radiologic Science, B.S. (<https://catalog.unc.edu/undergraduate/programs-study/radiologic-science-major-bs/>)

Minor

- Neurodiagnostics and Sleep Science (p. 1)
- Speech and Hearing Sciences (<https://catalog.unc.edu/undergraduate/programs-study/speech-hearing-sciences-minor/>)

Courses

- Clinical Laboratory Sciences (CLSC) (<https://catalog.unc.edu/courses/clsc/>)
- Neurodiagnostics and Sleep Science (NDSS) (<https://catalog.unc.edu/courses/ndss/>)
- Radiologic Science (RADI) (<https://catalog.unc.edu/courses/radi/>)
- Speech and Hearing Sciences (SPHS) (<https://catalog.unc.edu/courses/sphs/>)

Contact Information

Department of Health Sciences

Visit Program Website (<https://www.med.unc.edu/healthsciences/>)
Bondurant Hall, CB #7120
(919) 843-4495

Division of Neurodiagnostics and Sleep Science

General Inquiries
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Chair

Christopher Ingersoll