



**NEW**

# IONM Certificate

## For the NDT professional who wants to specialize in Surgical Neurophysiology

Ready to take your NDT career to the next level? Consider specializing in Intraoperative Neurophysiological Monitoring (IONM) and appreciate the challenges that this highly technical and fast pace career has to offer.

The Institute of Health Sciences is the first school to offer Pathway IV eligibility to ABRET's<sup>®</sup> CNIM<sup>®</sup> examination. Formal recognition is an academic achievement and provided the highest standard of education to students.

Students will earn 80 ASET ACE continuing education credits, Pathway IV eligibility upon successful completion of 150 cases, and a certificate of completion.

*Online courses may be taken prior to clinical rotations.*



Quality Education. Lifetime Opportunity.

**Class Size Limited!**

Call 410.891.2514

[iohs@instituteofhealthscience.org](mailto:iohs@instituteofhealthscience.org)



## WHAT DO IONM CLINICIANS DO?

- Perform nervous system testing in the OR during surgeries that place delicate neural structures at risk
- Detect neurologic injury during surgery
- Record and measure electrical activity of the peripheral and central nervous system (ex. MEP, SEP, BAEP)
- Monitor, assess, and report nervous system status to the oversight physician and surgeon
- Provide high-quality, well-documented quality IONM studies during surgery
- Coordinate monitoring strategy with the surgical team and oversight physician
- Notify surgeon of IONM changes in real time
- Troubleshooting

## Foundations of Neurophysiologic Monitoring

This course will focus on the fundamental concepts of Intraoperative Neurophysiologic Monitoring. Students will be provided with introductory level exposure to the operating room and didactic topics relating to OR and IONM practices. The roles and responsibilities of IOM and OR staff will be discussed as well as the various IONM procedures, general safety, sterile technique, infection control, basic instrumentation, anesthesia, guidelines, and healthy equity. Common procedures that are performed during surgery are discussed in detail and appropriate monitoring modalities described. This course is a comprehensive overview of the neuro-anatomy and neurophysiology necessary for a thorough understanding of IONM monitoring procedures.

## Monitoring Modalities

Monitoring Modalities I provides a discussion of how EEG is similar/different in the OR v/s neurodiagnostic setting/technical discussions/clinical correlation/anesthetic effects/hemodynamic influences, seizures in the OR. This course discusses how intra-operative EEG is commonly monitored with other IONM monitoring modalities with details on these

procedures such as carotid endarterectomy, craniotomy for tumor, cerebral aneurysm, arteriovenous malformation, AAA, cardiac surgery, and localization of the somatosensory cortex. There will also be an introduction to electrocorticography and functional cortical mapping. This course will focus on SEP, MEP, and EMG. Topics include the relationship between each of these monitoring modalities and how they are routinely performed together.

## IOM Clinical Capstone

This course requires students to complete a minimum of 500 contact hours and may take longer than 12 weeks to complete. Contact hours include activities such as grand rounds, review sessions with senior staff and/or physician, participation in the operating room during set-up, intraoperative monitoring, disposal of electrodes, etc. Students are required to complete time sheets, competency skill checklist, and participate in IOM record reviews with the faculty.

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Institute of Health Sciences**