IONM 1270
Modalities for Spine Surgery
Neurodiagnostic Program
Summer 2015

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OFFICE HOURS: TBA

Modalities for Spine Surgery

IONM 1270
Summer semester
Credits: 2

Prerequisites: None

IONM 1270 Students are required to logon to My Blackboard to complete assignments each week.

Class will meet for two lecture hours.

ADA STATEMENT

“This college will adhere to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations as required, to afford equal educational opportunity. It is the policy of ACC to provide reasonable accommodations for qualified individuals who are students with disabilities. It is the student’s responsibility to contact the Counseling Center in a timely manner to arrange for appropriate accommodations.”

COURSE DESCRIPTION

Provides theory and procedural information regarding neurodiagnostic testing for various types of spine surgery procedures and application of electrical concepts, recording techniques, data analysis, and descriptions. Also includes electronics and instrumentation associated with the conventional electroencephalograph, evoked potentials, and muscle potential recordings.

METHODS OF ACCOMPLISHING OBJECTIVES

IONM 1270 will meet once a week for two hours of lecture. The student will be required to log on to My Blackboard a minimum of two (2) times per week to review lecture, answer discussion questions and complete any additional posted assignments.
CONTENT OUTLINE

Unit I  Anatomy of the spine
Unit II  Modalities for spine surgery
Unit III Methodology, Modality, and Neurodiagnostic Procedure.
Unit IV Reporting protocol

EVALUATION WEIGHTS

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Exams</td>
<td>70%</td>
</tr>
<tr>
<td>Quizzes &amp; Assignments</td>
<td>10%</td>
</tr>
<tr>
<td>Final</td>
<td>20%</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
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GRADING SYSTEM

A = 90 - 100
B = 80 - 89
C = 75 - 79
Final average less than 75 denotes failure (F)

Each student is expected to attend class regularly. Any student who accumulates an equivalence of two (2) weeks of absence will be referred to the Dean of Instruction and possibly dropped, or the absences will be reflected in the student’s final average with one (1) point dropped, per unexcused absence.

Student evaluations are based on participation in discussion questions posted on My Blackboard, written unit examinations, written comprehensive final examination and completion of all assigned homework.

Unit examinations will be made up on the day of return to class only if the student has an excused absence. In the event of an unexcused absence, no make-up exam will be given. The student must take a comprehensive final exam to be averaged in place of the missed exam. The lowest exam grade will be dropped from the average. Only one (1) make-up examination will be given for this course.

Assignments are to be completed and turned in on the date specified in class. Five (5) points will be deducted on the assignment for every day the assignment is late.

TEXTBOOKS

None

REFERENCES

ASET course: IONM 100 Neuroanatomy and Neurophysiology for IONM and END Professionals.
ASET course: IONM 101 Introduction to Intraoperative Neuromonitoring.
Chiappa, K. Evoked Potentials in Clinical Medicine, 2nd ed.
The American EEG Society’s Guidelines in Evoked Potentials, 1994
SCANS

COMPETENCIES

**Resources**

C1 - Allocates Time  
C2 - Allocates Money  
C3 - Allocates Material & Facility Resources  
C4 - Allocates Human Resources

**Information**

C5 - Acquires & Evaluates Information  
C6 - Organizes & Maintains Information  
C7 - Interprets & Communicates Information  
C8 - Uses Computers to Process Information

**Interpersonal**

C9 - Participates as a Member of a Team  
C10 - Teaches Others  
C11 - Serves Clients/Customers  
C12 - Exercises Leadership  
C13 - Negotiates to Arrive at a Decision  
C14 - Works with Cultural Diversity

**Systems**

C15 - Understands Systems  
C16 - Monitors & Corrects Performance  
C17 - Improves & Designs Systems

**Technology**

C18 - Selects Technology  
C19 - Applies Technology to Task  
C20 - Maintains & Troubleshoots Technology

FOUNDATION SKILLS

**Basic Skills**

F1 - Reading  
F2 - Writing  
F3 - Arithmetic  
F4 - Mathematics  
F5 - Listening  
F6 - Speaking  
F7 - Creative thinking  
F8 - Decision Making  
F9 - Problem Solving  
F10 - Seeing Things in the Mind's Eye  
F11 - Knowing How to Learn  
F12 - Reasoning

**Personal Qualities**

F13 - Responsibility  
F14 - Self-Esteem  
F15 - Social  
F16 - Self-Management  
F17 - Integrity/Honesty