

NSCS845	Neuro-Ophthalmology	Course Director(s): Walker Aljoeson, M.D.	Course Coordinator(s): Olivia Burch 843-792-3222 burchon@musc.edu
Student Limit	Location: MUSC Charleston, SC		

<input checked="" type="checkbox"/> 1	July 5 - July 29	<input type="checkbox"/>	Aug 29 - Sept 23	<input type="checkbox"/>	Oct 24 - Nov 4	<input type="checkbox"/>	Jan 17 - Jan 27	<input checked="" type="checkbox"/> 1	Mar 26 - Apr 20
<input type="checkbox"/>	July 5 - July 15	<input type="checkbox"/>	Aug 29 - Sept 9	<input type="checkbox"/>	Nov 7 - Nov 18	<input checked="" type="checkbox"/> 1	Jan 30 - Feb 24	<input type="checkbox"/>	Mar 26 - Apr 6
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LONGITUDINAL INFORMATION:

Summer				
Fall				
Spring				

Comments There will be no 2 week block rotations
"Visiting Students" only if no MUSC students request same block.

COURSE DESCRIPTION
Goal of course for the student is to learn and apply Neurology to the ophthalmic system. He or she will be able to identify and reasonably recognize and determine objectives indicated for the visual concerns of the patient. Learn to use the tools of the trade.
NOTE: The Clinical Core Neurology Shelf exam will be required of those who have not previously taken it.

LEARNING OBJECTIVES

1. Perform an eye exam
2. Identify misalignment of the eyes
3. Identify papilledema
4. Relate neurologic disease to the visual system
5. Review the fundus and optic nerve by exam

METHODS OF EVALUATING COMPETENCY
Direct observation

TEACHING METHODOLOGIES
Conference
Clinical Experience
Independent Study

CALL
No

PATIENT ENCOUNTERS
6 - migraine and related visual issues
1 - Papilledema
1 - Diplopia
4 - Complicated visual issues and MS or pseudotumor cerebri
1 - spinal tap

FEEDBACK
Daily - verbal
Mid-term - verbal
Final - written and verbal

NSCS851	General Pediatric Neurology	<u>Course Director(s):</u> Rebecca Lehman, M.D.	<u>Course Coordinator(s):</u> Olivia Burch 843-792-3222 burchon@musc.edu
<u>Student Limit</u>	<u>Location:</u> MUSC Charleston, SC		

<input checked="" type="checkbox"/> 2 July 5 - July 29	<input checked="" type="checkbox"/> 2 Aug 29 - Sept 23	<input type="checkbox"/> Oct 24 - Nov 4	<input type="checkbox"/> Jan 17 - Jan 27	<input checked="" type="checkbox"/> 2 Mar 26 - Apr 20
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LONGITUDINAL INFORMATION:

<u>Summer</u>			
<u>Fall</u>			
<u>Spring</u>			

Comments No 2 week blocks available.
MUSC COM Year 4 students have preference each "Block"

COURSE DESCRIPTION
This elective focuses on commonly seen pediatric neurology problems seen in an outpatient setting. Students are first to evaluate the patient and their families as they work in a daily partnership with one of more pediatric neurology faculty attendings. Emphasis is on mastering the fundamentals of history-taking and patient assessment and on learning patient care approaches for common neuro-developmental disorders. Examples include seizures, migraine, motor or language delay, cerebral palsy, head injuries, tic disorders and sleep disorders. Hours are approximately 8:00 AM to 5:30 PM.
NOTE: The Clinical Core Neurology Shelf exam will be required of those who have not previously taken it.

- COURSE OBJECTIVES**
1. Refine skills in taking an accurate and thorough neurologic history
 2. Achieve competence in performing a neurologic examination in a toddler, child or adolescent
 3. Learn the basics of developing and utilizing skills in anatomic localization and differential diagnosis
 4. Master effective communication skills with pediatric patients and their parents

TEACHING METHODOLOGIES
Clinical Experience (Primary)
Small Group (Tertiary)
Independent Study (Secondary)

METHODS OF EVALUATING COMPETENCY
Direct observation

CALL
No

- PATIENT ENCOUNTERS**
- 4 new onset seizures
 - 4 poorly controlled seizures
 - 4 headache
 - 3 spasticity or CP
 - 1 tic or movement disorder
 - 1 abnormal head shape or size
 - 1 demyelinating disorders (Guillain-Barre Syndrome, Acute Disseminated Encephalomyelitis)
 - 1 Neurocutaneous syndrome(s)
 - 1 mitochondrial or genetic abnormality

FEEDBACK
Daily - verbal
Mid-term - verbal
Final - written and verbal

NSCS852SC

Gen Neurosurgery Externship SC

Course Director(s):

Abhay Varma, M.D.

Sunil Patel, M.D.

Course Coordinator(s):

Olivia Burch

843-792-3222

burchon@musc.edu

Student Limit

Location: MUSC Charleston, SC

3 July 5 - July 29

July 5 - July 15

July 18 - July 29

3 Aug 1 - Aug 26

Aug 1 - Aug 12

Aug 15 - Aug 26

3 Aug 29 - Sept 23

Aug 29 - Sept 9

Sept 12 - Sept 23

3 Sept 26 - Oct 21

Sept 26 - Oct 7

Oct 10 - Oct 21

3 Oct 24 - Nov 18

Oct 24 - Nov 4

Nov 7 - Nov 18

3 Nov 21 - Dec 16

Nov 21 - Dec 2

Dec 5 - Dec 16

3 Jan 3 - Jan 27

Jan 3 - Jan 13

Jan 17 - Jan 27

3 Jan 30 - Feb 24

Jan 30 - Feb 10

Feb 13 - Feb 24

3 Feb 27 - Mar 23

Feb 27 - Mar 9

Mar 12 - Mar 23

3 Mar 26 - Apr 20

Mar 26 - Apr 6

Apr 9 - Apr 20

3 Apr 23 - May 17

Apr 23 - May 4

May 7 - May 17

LONGITUDINAL INFORMATION:

<u>Summer</u>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<u>Fall</u>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<u>Spring</u>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Comments No 2 week blocks available.
MUSC COM Year 4 students have initial preference for "Blocks"

COURSE DESCRIPTION

This Neurosurgery externship will provide exposure to all facets of Neurosurgery, both pediatric and adult. Students will have the opportunity to provide outpatient and inpatient preoperative and postoperative care in the clinic and hospital setting. Through didactic teaching, care of patients in the clinic and hospital, and direct observation of neurosurgical procedures, students will become familiar with common neurosurgical disorders and methods of treatment at all ages. Students will be expected to have an "on-call" schedule similar to a PGY-II neurosurgical resident.

NOTE: The Clinical Core Neurology Shelf exam will be required of those who have not previously taken it.

COURSE OBJECTIVES

1. Describe clinical neurosurgical diagnoses and discuss their management issues in some of the most common neurosurgical disorders.
2. Perform a focused history and neurological exam for neurosurgical disorders.
3. Discuss basic neurosurgical approaches to common neurosurgical disorders, as well as the postoperative care and long-term management issues.
4. Identify the contributions and limitations of diagnostic imaging and neurophysiological testing in patient assessments.
5. Formulate non-surgical treatment plans for neurosurgical diagnosis and identify the common complications that may occur with or without neurosurgical interventions.

TEACHING METHODOLOGIES

Direct observation
Oral presentation

METHODS OF EVALUATING COMPETENCY

Conference
Clinical Experience
Small Group
Independent Study

CALL

Yes - every 3rd night

PATIENT ENCOUNTERS

8 - pediatric or adult patients with common neurosurgical issues, 4 of which you were scrubbed in for in operating room

FEEDBACK

Daily - verbal
Mid-term - verbal
Final - written and verbal

NSCS853	Pediatric Neurosurgery	Course Director(s): Steven Glazier, M.D.	Course Coordinator(s): Olivia Burch 843-792-3222 burchon@musc.edu
Student Limit	Location: MUSC Charleston, SC		

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LONGITUDINAL INFORMATION:

Summer				
Fall				
Spring				

Comments No 2 week blocks available.
MUSC COM Year 4 students have first priority in selection process.

COURSE DESCRIPTION

Pediatric Neurosurgery diagnoses and treats disorders of the nervous system through surgical means in patients up to eighteen years of age. Students participating in a pediatric Neurosurgery elective will gain experience through didactic Neurosurgery conferences, assisting the physician in both outpatient clinic visits and inpatient care in the hospital, and through observation of surgical procedures.

NOTE: The Clinical Core Neurology Shelf exam will be required of those who have not previously taken it.

LEARNING OBJECTIVES

1. Identify common disorders of pediatric neurology needing neurosurgical consultation
2. Differentiate the various imaging modalities used to evaluate pediatric neurosurgical disorders
3. Perform the physical and neurological examination of pediatric patients with neurological disorders.
4. Propose treatment methods for common pediatric neurosurgical disorders.
5. Show consideration for the patient and patient's family.

METHODS OF EVALUATING COMPETENCY

Direct observation
Oral presentation

TEACHING METHODOLOGIES

Conference
Clinical Experience
Small Group

CALL

No

PATIENT ENCOUNTERS

5 - pediatric hydrocephalus
1 - pediatric traumatic brain injury
1 - pediatric myelodysplasia

FEEDBACK

Daily - verbal
Mid-term - verbal
Final - written and verbal

NSCS854	Vascular Neurology (Stroke)	Course Director(s): Robert Adams, M.D.	Course Coordinator(s): Olivia Burch 843-792-3222 burchon@musc.edu
Student Limit	Location: MUSC Charleston, SC		

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LONGITUDINAL INFORMATION:

Summer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fall	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments No 2 week blocks available.
MUSC COM Year 4 students have first priority in selection process.

COURSE DESCRIPTION
A four week elective for 4th year students to be exposed to clinical and academic opportunities in vascular neurology. During the elective, students will shadow attending on wards, stroke clinic, research meetings/conferences as well as attend at least two (but more if possible) open or endovascular surgical procedures arranged by Director. Student will learn about evidence based clinical study design, journal article review. Student will also acquire a basic knowledge of clinical examination and patient interviewing, vascular risk factors for stroke and neuro-imaging (CT, MRI, TCD, etc.). Student will be introduced to the REACH-MUSC telemedicine program.

NOTE: The Clinical Core Neurology Shelf exam will be required of those who have not previously taken it.

LEARNING OBJECTIVES
After successful completion of this rotation, the student will be able to:

1. Review journal articles pertaining to stroke
2. Develop a research question suitable for future investigation
3. Demonstrate procedures for evidence based guidelines relevant to ischemic and hemorrhagic stroke and vascular disease
4. Demonstrate enhanced clinical examination skills, interviewing skills, understanding of vascular risk factors for stroke and basic understanding of neuro-imaging (CT, MRI and TCD)
5. Identify basic design of evidence based clinical studies in acute and stroke prevention, both locally at MUSC as well as nationally

METHODS OF EVALUATING COMPETENCY
Oral presentation
Direct observation
Written
Discussion

TEACHING METHODOLOGIES
Clinical Experience
Small Group
Independent Study

CALL
No

PATIENT ENCOUNTERS
Student will shadow Attending physician

FEEDBACK
Mid-term - verbal
Final - written and verbal

NSCS856	Behavioral Neurol/Neuropsych	Course Director(s): David Bachman, M.D.	Course Coordinator(s): Olivia Burch 843-792-3222 burchon@musc.edu
Student Limit	Location: MUSC Charleston, SC		

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LONGITUDINAL INFORMATION:

Summer				
Fall				
Spring				

Comments No 2 week blocks available
MUSC COM Year 4 students have first priority in selection process.

COURSE DESCRIPTION
Observe a variety of cognitively impaired patients in a clinical setting at MUH and the VA. Observe neuropsychological testing and better understand its application. Participate in a directed reading targeted to your interests and needs.
NOTE: The Clinical Core Neurology Shelf exam will be required of those who have not previously taken it.

LEARNING OBJECTIVES

1. Learn to apply and interpret a mental status exam
2. Identify the key elements of a neuropsychological assessment
3. Distinguish among the different dementia syndromes by their clinical characteristics
4. Compare the known pathology localization to clinical symptoms

METHODS OF EVALUATING COMPETENCY
Direct observation

TEACHING METHODOLOGIES
Clinical Experience
Small Group
Independent Study

CALL
No

PATIENT ENCOUNTERS
2 Alzheimer's dementia
4 Behavioral neurology/memory disorders in adults
2 Observe neuropsychological testing in adult patients

FEEDBACK
Mid-term - verbal
Final - written and verbal

NSCS858	General Adult Neurology	Course Director(s): Jonathan Edwards, M.D.	Course Coordinator(s): Olivia Burch 843-792-3222 burchon@musc.edu
Student Limit	Location: MUSC Charleston, SC		

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LONGITUDINAL INFORMATION:

Summer	<input type="text"/>	<input type="text"/>	<input type="text"/>
Fall	<input type="text"/>	<input type="text"/>	<input type="text"/>
Spring	<input type="text"/>	<input type="text"/>	<input type="text"/>

Comments No 2 week blocks available
MUSC COM Year 4 students have first priority in selection process.

COURSE DESCRIPTION
Students will gain skills in performing a neurological examination and evaluation. Clinical/Anatomical correlates will be stressed. The student will be introduced to a variety of neurodiagnostic tests, particularly MRI, lumbar puncture and EEG. This experience will take place on either an inpatient service or an inpatient consult service.

NOTE: The Clinical Core Neurology Shelf exam will be required of those who have not previously taken it.

LEARNING OBJECTIVES

1. Perform a neurological history and exam
2. Demonstrate knowledge of common neurological diseases
3. Understand the role of diagnostic testing in diagnosing neurologic disease
4. Know how to evaluate and treat certain neurological emergencies

METHODS OF EVALUATING COMPETENCY
Direct observation
Written test

TEACHING METHODOLOGIES
Lecture
Conference
Clinical Experience
Small Group
Independent Study

CALL
Yes - 1 night/week

PATIENT ENCOUNTERS
2 - Epilepsy patients
2 - Stroke patients
4 - other types of neurologic patients

FEEDBACK
Mid-term - verbal
Final - written and verbal

NSCS859	Adult Neurology Externship	Course Director(s): Paul Pritchard, M.D.	Course Coordinator(s): Olivia Burch 843-792-3222 burchon@musc.edu
Student Limit	Location: MUSC Charleston, SC		

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LONGITUDINAL INFORMATION:

Summer			
Fall			
Spring			

Comments No 2 week blocks available
MUSC COM Year 4 students have first priority in selection process.

COURSE DESCRIPTION
Exposes the student to intern level responsibilities for patient care. Allows the student to perform clinically while under close supervision. Experience occurs on a hospital inpatient service. Students will be expected to work-up and evaluate patients, present cases to an attending physician, and participate fully in all aspects of patient care. Teaching will emphasize clinical/anatomical correlations as well as other aspects of professionalism in patient care.
NOTE: The Clinical Core Neurology Shelf exam will be required of those who have not previously taken it.

LEARNING OBJECTIVES

1. Expose the student to intern-level responsibilities for patient care.
2. Demonstrate the ability to perform a general physical and neurological exam
3. Understand the contribution of diagnostic testing to the evaluation of neurologic patients
4. Demonstrate an ability to critically review medical literature.

METHODS OF EVALUATING COMPETENCY
Direct observation
Written test
Oral presentation

TEACHING METHODOLOGIES
Lecture
Conference
Clinical Experience
Small Group
Independent Study

CALL
Yes - every 3rd night

PATIENT ENCOUNTERS
2 Epilepsy patients
2 Stroke patients
4 Other types of neurological patients

FEEDBACK
Mid-term - verbal
Final - written and verbal

NSCS860	Neurosciences ICU Externship	Course Director(s): Julio Chalela, M.D.	Course Coordinator(s): Olivia Burch 843-792-3222 burchon@musc.edu
Student Limit	Location: MUSC Charleston, SC		

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LONGITUDINAL INFORMATION:

Summer			
Fall			
Spring			

Comments No 2 week blocks available
MUSC COM Year 4 students have first priority in selection process.

COURSE DESCRIPTION
This Neurosciences ICU externship will provide students with a thorough understanding of basic general critical care and neurocritical care concepts. The students are expected to read the syllabus that is provided to them. Students are expected to learn the fundamentals of resuscitating patients with severe acute neurologic injuries. Students will become familiar with airway management issues, respiratory management, circulatory support, management of increased intracranial pressure, and management of comorbid conditions seen in patients with acute neurologic injury. Students will be expected to become familiar with all critical care issues and instructed on imaging interpretation as it pertains to ICU patients. Students will participate in hands-on procedures under close supervision and will be expected to have an "on-call" schedule similar to a PGY-II neurology resident.
NOTE: The Clinical Core Neurology Shelf exam will be required of those who have not previously taken it.

LEARNING OBJECTIVES

1. Evaluate a critically ill patient with neurologic/neurosurgical illness.
2. Develop a clinical care/management plan for Neuro ICU patients.
3. Manage the most common neurologic emergencies requiring neurocritical care.
4. Perform some critical care procedures required in the Neuro ICU.
5. Understand the contributions and limitations of diagnostic imaging (MRI, CT) and neurophysiological testing (EEG, EMG/NCV) in the assessment of Neuro ICU patients.

METHODS OF EVALUATING COMPETENCY
Direct observation
Oral presentation

TEACHING METHODOLOGIES
Lecture
Conference
Clinical Experience
Small Group
Independent Study

CALL
Yes - 2 nights per week

PATIENT ENCOUNTERS
4 Neurologic/Neurosurgical critically ill patients

FEEDBACK
Mid-term - verbal
Final - written and verbal

NSCS861	Physical Med & Rehabilitation	Course Director(s): Nancey Trevanian Tsai, M.D.	Course Coordinator(s): Olivia Burch 843-792-3222 burchon@musc.edu
Student Limit	Location: MUSC Charleston, SC		

<input checked="" type="checkbox"/> 1	<input checked="" type="checkbox"/> July 5 - July 29	<input type="checkbox"/>	<input type="checkbox"/> Aug 29 - Sept 23	<input type="checkbox"/>	<input type="checkbox"/> Oct 24 - Nov 4	<input type="checkbox"/>	<input type="checkbox"/> Jan 17 - Jan 27	<input type="checkbox"/>	<input type="checkbox"/> Mar 26 - Apr 20
<input type="checkbox"/>	<input type="checkbox"/> July 5 - July 15	<input type="checkbox"/>	<input type="checkbox"/> Aug 29 - Sept 9	<input type="checkbox"/>	<input type="checkbox"/> Nov 7 - Nov 18	<input checked="" type="checkbox"/> 1	<input checked="" type="checkbox"/> Jan 30 - Feb 24	<input type="checkbox"/>	<input type="checkbox"/> Mar 26 - Apr 6
<input type="checkbox"/>	<input type="checkbox"/> July 18 - July 29	<input type="checkbox"/>	<input type="checkbox"/> Sept 12 - Sept 23	<input checked="" type="checkbox"/> 1	<input checked="" type="checkbox"/> Nov 21 - Dec 16	<input type="checkbox"/>	<input type="checkbox"/> Jan 30 - Feb 10	<input type="checkbox"/>	<input type="checkbox"/> Apr 9 - Apr 20
<input type="checkbox"/>	<input type="checkbox"/> Aug 1 - Aug 26	<input checked="" type="checkbox"/> 1	<input checked="" type="checkbox"/> Sept 26 - Oct 21	<input type="checkbox"/>	<input type="checkbox"/> Nov 21 - Dec 2	<input type="checkbox"/>	<input type="checkbox"/> Feb 13 - Feb 24	<input type="checkbox"/>	<input type="checkbox"/> Apr 23 - May 17
<input type="checkbox"/>	<input type="checkbox"/> Aug 1 - Aug 12	<input type="checkbox"/>	<input type="checkbox"/> Sept 26 - Oct 7	<input type="checkbox"/>	<input type="checkbox"/> Dec 5 - Dec 16	<input checked="" type="checkbox"/> 1	<input checked="" type="checkbox"/> Feb 27 - Mar 23	<input type="checkbox"/>	<input type="checkbox"/> Apr 23 - May 4
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LONGITUDINAL INFORMATION:

Summer	<input type="text"/>	<input type="text"/>	<input type="text"/>
Fall	<input type="text"/>	<input type="text"/>	<input type="text"/>
Spring	<input type="text"/>	<input type="text"/>	<input type="text"/>

Comments No 2 week blocks available
MUSC COM Year 4 students have first priority in selection process.

COURSE DESCRIPTION
Outpatient physiatric practice with focus on spine and sports medicine. Part of the course will also be spent in electrophysiology, i.e., EMG. Interdisciplinary care of complex patients will be explored.
NOTE: The Clinical Core Neurology Shelf exam will be required of those who have not previously taken it.

LEARNING OBJECTIVES

1. Perform a comprehensive spine and/or musculoskeletal examination
2. Determine and distinguish between common causes of neck and/or back pain.
3. Practice provocative maneuvers for joint and/or muscular dysfunction.
4. Show consideration for patient comfort
5. Show ability to work well with interdisciplinary care providers at all levels

METHODS OF EVALUATING COMPETENCY
Direct observation

TEACHING METHODOLOGIES
Clinical Experience
Independent Study

CALL
No

PATIENT ENCOUNTERS
2 - neck pain
4 - back pain

FEEDBACK
Daily - verbal
Mid-term - verbal
Final - written and verbal

NSCS862	Spine Neurosurgery Externship	Course Director(s): Abhay Varma, M.D.	Course Coordinator(s): Olivia Burch 843-792-3222 burchon@musc.edu
Student Limit	Location: MUSC Charleston, SC		

<input checked="" type="checkbox"/> 2	July 5 - July 29	<input checked="" type="checkbox"/> 2	Aug 29 - Sept 23	<input type="checkbox"/>	Oct 24 - Nov 4	<input type="checkbox"/>	Jan 17 - Jan 27	<input checked="" type="checkbox"/> 2	Mar 26 - Apr 20
<input type="checkbox"/>	July 5 - July 15	<input type="checkbox"/>	Aug 29 - Sept 9	<input type="checkbox"/>	Nov 7 - Nov 18	<input checked="" type="checkbox"/> 2	Jan 30 - Feb 24	<input type="checkbox"/>	Mar 26 - Apr 6
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<input type="checkbox"/>	Aug 15 - Aug 26	<input checked="" type="checkbox"/> 2	Oct 10 - Oct 21	<input checked="" type="checkbox"/> 2	Jan 3 - Jan 27	<input type="checkbox"/>	Feb 27 - Mar 9	<input type="checkbox"/>	May 7 - May 17
		<input checked="" type="checkbox"/> 2	Oct 24 - Nov 18	<input type="checkbox"/>	Jan 3 - Jan 13	<input type="checkbox"/>	Mar 12 - Mar 23		

LONGITUDINAL INFORMATION:

Summer	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Fall	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Spring	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Comments No 2 week blocks available
MUSC COM Year 4 students have first priority in selection process.

COURSE DESCRIPTION
This neurosurgical externship gives students a firsthand look at the challenges and rigors of Neurosurgery, with a focus on surgery of the spine. Students will attend didactic Neurosurgery conferences in the Department of Neurosciences, will participate in the diagnosis and treatment of patients in the outpatient clinic setting, and will assist in the care of patients in the Neurosciences ICU. Students will observe surgical procedures and will be expected to have an "on-call" schedule similar to a PGY-II neurosurgical resident.
NOTE: The Clinical Core Neurology Shelf exam will be required of those who have not previously taken it.

LEARNING OBJECTIVES

1. Identify the common disorders of the spine
2. Differentiate the various imaging modalities to evaluate spine disorders
3. Perform the physical and neurological examinations of patients with spinal disorders
4. Describe the various treatments, both surgical and non-surgical, for common disorders of the spine

METHODS OF EVALUATING COMPETENCY
Direct observation
Oral presentation

TEACHING METHODOLOGIES
Conference
Clinical Experience
Small Group
Independent Study

CALL
Yes - every 3rd night

PATIENT ENCOUNTERS
4 - patients with spinal disorders
2 - patients undergoing surgical treatment for spinal disorders

FEEDBACK
Daily - verbal
Mid-term - verbal
Final - written and verbal