

NSCS 845	Neuro-Ophthalmology	<u>Course Director(s):</u> Aljoeson Walker, MD	<u>Course Coordinator(s):</u> Olivia Burch Emily Nelson	
<u>Student Limit</u>			792-3222	792-9189
			burchon@musc.edu	nelsone@musc.edu

Blk 1 <input type="checkbox"/> 1 <input checked="" type="checkbox"/> July 2 - July 27	Blk 3 <input type="checkbox"/> 1 <input checked="" type="checkbox"/> Aug 27 - Sept 21	Blk 5A <input type="checkbox"/> <input type="checkbox"/> Oct 22 - Nov 2	Blk 7B <input type="checkbox"/> <input type="checkbox"/> Jan 14 - Jan 25	Blk 10 <input type="checkbox"/> 1 <input checked="" type="checkbox"/> Mar 25 - Apr 19
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COMMENTS:
 We DO NOT offer two weeks elective rotations. The Clinical Core Neurology Shelf exam will be required of those who have not previously taken it. "Visiting Students" only if no MUSC students request same block.

COURSE DESCRIPTION:
 Students will 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.

- LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)**
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

- INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES:**
(Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:)
1. Conference
 2. Clinical Experience
 3. Independent Study

- PATIENT ENCOUNTERS: (Students will be expected to work-up patients with these specified conditions:)**
1. Migraine and related visual issues
 2. Papilledema
 3. Diplopia
 4. Complicated visual issues and MS or pseudotumor cerebri
 5. Spinal tap

- EVALUATION / FEEDBACK METHODS:**
1. Daily - verbal
 2. Mid-term - verbal
 3. Final - written and verbal

CALL:
 Will students be expected to participate in call? NO
 If yes, please describe the call schedule/frequency:

NSCS 851	Pediatric Neurology Externship	Course Director(s):		Course Coordinator(s):	
		Rebecca Lehman, MD		Olivia Burch	Emily Nelson
Student Limit		Robert Turner, MD		792-3222	792-9189
				burchon@musc.edu	nelsone@musc.edu

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COMMENTS:

We DO NOT offer two weeks elective rotations. The Clinical Core Neurology Shelf exam will be required of those who have not previously taken it.

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.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

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

INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES:

(Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:)

1. Clinical Experience (Primary)
2. Small Group (Tertiary)
3. Independent Study (Secondary)

PATIENT ENCOUNTERS: (Students will be expected to work-up patients with these specified conditions:)

1. New onset seizures
2. Poorly controlled seizures
3. Headache
4. Demyelinating Disorders (Guillain-Barre Syndrome, Acute Disseminated Encephalomyelitis)
5. Spasticity or CP
6. Tic or movement disorder
7. Abnormal head shape or size
8. Neurocutaneous syndrome (s)
9. Mitochondrial or genetic abnormality

EVALUATION / FEEDBACK METHODS:

1. Daily - verbal
2. Mid-term - verbal
3. Final - written and verbal.

CALL:

Will students be expected to participate in call? NO
 If yes, please describe the call schedule/frequency:

NSCS 852

**General Neurosurgery Externship
ASE**Course Director(s):

Abhay Varma, MD

Course Coordinator(s):

Olivia Burch

Emily Nelson

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Student
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COMMENTS:

We DO NOT offer two weeks elective rotations. The Clinical Core Neurology Shelf exam will be required of those who have not previously taken it. MUSC students have first choice over visiting students.

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.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

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.

INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES:

(Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:)

1. Direct observation
2. Oral presentation
3. Conference
4. Clinical Experience
5. Small Group

PATIENT ENCOUNTERS: (Students will be expected to work-up patients with these specified conditions:)

Pediatric or adult patients with common neurosurgical issues, half of which you were scrubbed in for in operating room

EVALUATION / FEEDBACK METHODS:

1. Daily (Verbal)
2. Midterm (Verbal)
3. Final (Written and Verbal)

CALL:

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

Every 3rd Night

NSCS 853

Pediatric Neurosurgery ASE

Course Director(s):

Steven Glazier, MD

Course Coordinator(s):

Olivia Burch

Emily Nelson

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COMMENTS:

We DO NOT offer two weeks elective rotations. The Clinical Core Neurology Shelf exam will be required of those who have not previously taken it. 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.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

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.

INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES:

(Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:)

1. Direct observation
2. Oral presentation
3. Conference
4. Clinical Experience
5. Small Group

PATIENT ENCOUNTERS: (Students will be expected to work-up patients with these specified conditions:)

1. Pediatric hydrocephalus
2. Pediatric traumatic brain injury
3. Pediatric myelodysplasia

EVALUATION / FEEDBACK METHODS:

1. Daily - verbal
2. Mid-term - verbal
3. Final - written and verbal

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

NSCS 854

Vascular Neurology (Stroke)

Course Director(s):

Christine Holmstedt, DO

Course Coordinator(s):

Olivia Burch

Emily Nelson

792-3222

792-9189

burchon@musc.edu

nelsone@musc.edu

Student Limit

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COMMENTS:

We DO NOT offer two weeks elective rotations. The Clinical Core Neurology Shelf exam will be required of those who have not previously taken it. 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.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should 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 neuroimaging (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

INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES:

(Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:)

1. Oral presentation
2. Direct observation
3. Written
4. Discussion
5. Clinical Experience
6. Small Group
7. Independent Study

PATIENT ENCOUNTERS: (Students will be expected to work-up patients with these specified conditions:)

Student will shadow Attending physician

EVALUATION / FEEDBACK METHODS:

1. Mid-term - verbal
2. Final - written and verbal

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

NSCS 856	Behavioral Neurology	<u>Course Director(s):</u> David Bachman, MD	<u>Course Coordinator(s):</u> Olivia Burch Emily Nelson	
<u>Student Limit</u>			792-3222	792-9189
			burchon@musc.edu	nelsone@musc.edu

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COMMENTS:

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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.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

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

INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES:

(Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:)

1. Direct observation
2. Clinical Experience
3. Small Group
4. Independent Study

PATIENT ENCOUNTERS: (Students will be expected to work-up patients with these specified conditions:)

1. Alzheimer's dementia
2. Behavioral neurology/memory disorders in adults
3. Observe neuropsychological testing in adult patients.

EVALUATION / FEEDBACK METHODS:

1. Mid-term - verbal
2. Final - written and verbal

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

NSCS 858	General Adult Neurology	<u>Course Director(s):</u> All Neuro Faculty,	<u>Course Coordinator(s):</u> Olivia Burch Emily Nelson	
			792-3222	792-9189
<u>Student Limit</u>			burchon@musc.edu	nelsone@musc.edu

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COMMENTS:

We DO NOT offer two weeks elective rotations. The Clinical Core Neurology Shelf exam will be required of those who have not previously taken it. 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.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

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

INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES:

(Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:)

1. Written test
2. Lecture
3. Conference
4. Clinical Experience
5. Small Group
6. Independent Study

PATIENT ENCOUNTERS: (Students will be expected to work-up patients with these specified conditions:)

1. Epilepsy patients
2. Stroke patients
3. Other types of neurologic patients

EVALUATION / FEEDBACK METHODS:

1. Mid-term - verbal
2. Final - written and verbal

CALL:

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

1 night per week

NSCS 859

General Adult Neurology Externship

Course Director(s):

All Neuro Faculty ,

Course Coordinator(s):

Olivia Burch

Emily Nelson

792-3222

792-9189

burchon@musc.edu

nelsone@musc.edu

Student
Limit

Blk 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	July 2 - July 27	Blk 3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Aug 27 - Sept 21	Blk 5A	<input type="checkbox"/>	<input type="checkbox"/>	Oct 22 - Nov 2	Blk 7B	<input type="checkbox"/>	<input type="checkbox"/>	Jan 14 - Jan 25	Blk 10	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Mar 25 - Apr 19
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COMMENTS:

We DO NOT offer two weeks elective rotations. The Clinical Core Neurology Shelf exam will be required of those who have not previously taken it. 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.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

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.

INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES:

(Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:)

1. Direct observation
2. Written test
3. Oral presentation
4. Lecture
5. Conference
6. Clinical Experience
7. Small Group
8. Independent Study

PATIENT ENCOUNTERS: (Students will be expected to work-up patients with these specified conditions:)

1. Epilepsy patients
2. Stroke patients
3. Other types of neurological patients

EVALUATION / FEEDBACK METHODS:

1. Mid-term - verbal
2. Final - written and verbal

CALL:

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

Every 3rd Night

NSCS 860	Neurosciences ICU Externship	<u>Course Director(s):</u> Julio Chalela, MD	<u>Course Coordinator(s):</u> Olivia Burch Emily Nelson	
			792-3222	792-9189
			burchon@musc.edu	nelsone@musc.edu

Student Limit				
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COMMENTS:
 We DO NOT offer two weeks elective rotations. The Clinical Core Neurology Shelf exam will be required of those who have not previously taken it. 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.

- LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)**
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, MG/NCV) in the assessment of Neuro ICU patients

- INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES:**
(Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:)
1. Oral Presentation
 2. Lecture
 3. Clinical Experience
 4. Small Group
 5. Conference
 6. Independent Study

PATIENT ENCOUNTERS: (Students will be expected to work-up patients with these specified conditions:)
 Neurologic/Neurosurgical critically ill patients

- EVALUATION / FEEDBACK METHODS:**
1. Mid-term - verbal
 2. Final - written and verbal

CALL:
 Will students be expected to participate in call? YES
 If yes, please describe the call schedule/frequency:
 2 Nights Per Week

NSCS 861

Physical Medicine & Neuro-RehabilitationCourse Director(s):

Nancy Tsai, MD

Course Coordinator(s):

Olivia Burch

Emily Nelson

792-3222

792-9189

burchon@musc.edu

nelsone@musc.edu

Student Limit

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COMMENTS:

We DO NOT offer two weeks elective rotations. The Clinical Core Neurology Shelf exam will be required of those who have not previously taken it. 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.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

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

INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES:

(Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:)

1. Direct observation
2. Clinical Experience
3. Independent Study

PATIENT ENCOUNTERS: (Students will be expected to work-up patients with these specified conditions:)

1. Neck Pain
2. Back Pain

EVALUATION / FEEDBACK METHODS:

1. Mid-term - verbal
2. Final - written and verbal

CALL:

Will students be expected to participate in call? NO

If yes, please describe the call schedule/frequency:

NSCS 862

Spine Neurosurgery Externship ASE

Course Director(s):

Abhay Varma, MD

Course Coordinator(s):

Olivia Burch

Emily Nelson

792-3222

792-9189

burchon@musc.edu

nelsone@musc.edu

Student Limit

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COMMENTS:

We DO NOT offer two weeks elective rotations. The Clinical Core Neurology Shelf exam will be required of those who have not previously taken it. 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 "oncall" schedule similar to a PGY-II neurosurgical resident.

LEARNING GOALS & OBJECTIVES: (At the completion of this clinical rotation, students should be able to:)

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

INSTRUCTIONAL METHODOLOGIES & ROTATION ACTIVITIES:

(Students on this rotation will be expected to learn and achieve the educational goals and objectives through the following methodologies and activities:)

1. Oral presentation
2. Conference
3. Clinical Experience
4. Small Group
5. Independent Study

PATIENT ENCOUNTERS: (Students will be expected to work-up patients with these specified conditions:)

1. Patients with spinal disorders
2. Patients undergoing surgical treatment for spinal disorders

EVALUATION / FEEDBACK METHODS:

1. Daily - verbal
2. Mid-term - verbal
3. Final - written and verbal

CALL:

Will students be expected to participate in call? YES

If yes, please describe the call schedule/frequency:

Every 3rd Night