NEURSURG 699 — NEUROSURGERY: DIRECTED IN STUDY IN RESEARCH
1-3 credits.

Offers undergraduates majoring in an area of the biological sciences, and interested in preparing for advanced coursework in graduate or medical school, an opportunity to participate in neurological surgery research.

**Requisites:** Consent of instructor

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2024

NEURSURG 919 — INDIVIDUALIZED NEUROLOGICAL SURGERY ELECTIVE
2-4 credits.

Individually scheduled clinical elective, directly supervised by Neurological Surgery senior residents and attending physicians. Regularly scheduled supervisor-student meetings, which involve some or all of the following: rounding on service patients, participating in scheduled operative procedures, participating in sub-specialty clinics, presenting cases and teaching topics, and discussing patient cases. Independent activities include reading about patient conditions and preparing for direct patient care as needed. Other patient care-related learning activities as assigned by instructors, dependent on the individual student, the patients under the student’s care, and the location.

**Requisites:** Graduate/professional standing

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2024

**Learning Outcomes:**

1. Perform a hypothesis driven history and complete a targeted exam
   Audience: Graduate

2. Develop and present a weighted differential diagnosis for medical and surgical conditions
   Audience: Graduate

3. Using clinical evidence, adapt and justify the working diagnosis, and demonstrate an understanding of the surgical anatomy
   Audience: Graduate

4. Present a diagnostic plan including laboratory and imaging modalities
   Audience: Graduate

5. Correctly interpret imaging and laboratory findings and communicate results to patients and team members
   Audience: Graduate

6. Develop and implement effective patient management plans
   Audience: Graduate

7. Complete written documentation in a comprehensive, concise, accurate and timely manner
   Audience: Graduate

8. Review, interpret, and present current literature to support patient care
   Audience: Graduate

9. Communicate effectively with patients, families, physicians and non-physician team members
   Audience: Graduate

10. Communicate and collaborate with consultants and/or primary team and other providers to coordinate care
    Audience: Graduate

11. Engage patients in shared decision-making regarding tests, orders, and procedures
    Audience: Graduate

12. Avoid medical jargon when communicating with patients and families
    Audience: Graduate

13. Recognize limitations and seek assistance as appropriate
    Audience: Graduate
NEURSURG 921 – INPATIENT NEURO ICU ELECTIVE
1-12 credits.

Direct supervision by Neurocritical Care attending physicians. Regularly scheduled supervisor-student meetings, which involve some or all of the following: rounding on service patients, observing procedures in the unit, presenting cases and teaching topics, and discussing patient cases. Independent activities, including reading about patient conditions and preparing for direct patient care, as needed. Other patient care related learning activities as assigned by instructors: these are dependent on the individual student and the patients under the student’s care.

**Requisites:** Graduate/professional standing
**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement
**Repeatable for Credit:** No
**Last Taught:** Spring 2024

**Learning Outcomes:**
1. Perform a hypothesis driven history and complete a targeted exam
   Audience: Graduate

2. Develop and present a weighted differential diagnosis
   Audience: Graduate

3. Using clinical evidence, adapt and justify the working diagnosis
   Audience: Graduate

4. Present a diagnostic plan including laboratory and imaging modalities
   Audience: Graduate

5. Correctly interpret imaging and laboratory findings and communicate results to patients and team members
   Audience: Graduate

6. Complete written documentation in a comprehensive, concise, accurate and timely manner
   Audience: Graduate

7. Review, interpret and present current literature to support patient care
   Audience: Graduate

8. Develop clinically relevant questions to advance learning
   Audience: Graduate

9. Communicate effectively with patients, families, physicians and non-physician team members
   Audience: Graduate

10. Communicate and collaborate with consultants and/or primary team and other providers to coordinate care
    Audience: Graduate

11. Engage patients in shared decision-making regarding tests, orders and procedures
    Audience: Graduate

12. Avoid medical jargon when communicating with patients and families
    Audience: Graduate

13. Recognize limitations and seek assistance as appropriate
    Audience: Graduate