

### 4<sup>th</sup> Year Experience

**Campus:** Southwest (Bismarck)

**Department:** Surgery

**Elective/Experience Title:** 4<sup>th</sup> Year Surgery Experience

**Course Number:** SURG 9198

*Surgical Sub-Specialty (2 weeks)*

*Orthopedic Surgery (2 weeks)*

**Location of Elective:** Sanford Health  
Mid-Dakota

CHI St. Alexius  
Dakota Eye Clinic

Bone & Joint Center

**Preceptor(s):** Ophthalmology  
Otolaryngology  
Cardiovascular/Thoracic Surgery

Orthopedic Surgery  
Plastic Surgery

Urology  
Anesthesiology

**Period(s) Offered:** All pending availability

**Number of students per period:** 2 students per period

**Purpose:** To provide education and experience in advanced general surgery care in an inpatient /outpatient setting.

**Objectives:** Following successful completion of this elective, the student will be able to:

1. Demonstrate the understanding of surgery beyond that of a third year clerk.
2. Demonstrate basic surgical skills such as suturing, placement of central lines, and the use of ultrasound.
3. Demonstrate patient management skills expected of an entering resident.
4. Demonstrate the ability to plan the management of the surgical patient with complex medical histories and complications related to previous surgical procedures.
5. Demonstrate principles of uncomplicated fracture management including the correct and safe application of casts.
6. Demonstrate the assessment of selected musculoskeletal disorders and injuries.
7. Demonstrate the understanding of the role of surgical sub-specialties in patient management.

**Instructional Activities:** During this elective, the student will be involved in/experience:

1. The perioperative workup and management of surgical patients in all phases of care.
2. Fluid and electrolyte management of surgical patients.
3. Evaluation and management of surgical patients in the emergency room.
4. The application of casts in fracture management.
5. The evaluation and management of orthopedic injuries.
6. The appropriate assessment of musculoskeletal diseases seen in an orthopedic practice.
7. Assisting in basic surgical procedures in inpatient and outpatient settings.
8. Effectively and efficiently reporting orally on rounds and documenting in the electronic medical record patient care data in the customary format of a surgeon.

**Criteria for Grading:** During and following this elective, the preceptor will:

1. Evaluate by direct observation the clinical skills of the student in the clinic and hospital including the operating room.
2. Evaluate professionalism and team collaboration by direct observation of the student's interaction with patients, surgical staff, nurses, other students, residents and faculty.
3. Judge the ability to perform basic surgical and orthopedic procedures by direct observation.
4. Evaluate by direct observation the student's ability to perform musculoskeletal examinations in order to reach the correct diagnoses.
5. Evaluate by direct observation and review of the medical record the student's ability to perform preoperative histories and physical examinations.
6. Evaluate by direct observation and review of the medical record the student's skills in postoperative management of assigned surgical patients.
7. Utilize the 4<sup>th</sup> year Surgery Experience evaluation form.