

## Elective Description

**Campus:** Southeast (Fargo)

**Elective Title:** Orthopedic Surgery

**Location of Elective:** Sanford Orthopedics and Sports Medicine – Fargo, ND

**Department:** Surgery

**Course Number:** SURG 9208-01

**Preceptor(s):** Howard T. Berglund, MD  
Steven Lantz, MD  
Benjamin Noonan, MD  
Todd Sekundiak, MD

Matthew Friederichs, MD  
Mark Lundeen, MD  
Gregory Orson, MD  
Parth Vyas, MD

Andrew Hvidston, MD  
Matthew Nelsen, MD  
Bruce Piatt, MD

**Period(s) offered:** All periods

**Number of students per period:** 1 student per period

**Course Prerequisites:** Completion of Surgery Clerkship

**Revised Curriculum Phase(s):** 2 & 3

**Purpose:** To provide education and experience in the diagnosis and care of patients requiring orthopedic surgery services.

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

1. Demonstrate basic knowledge of functional musculoskeletal anatomy.
2. Perform history and physical examination of orthopedic patients and make recommendations for care.
3. Evaluate, diagnose and treat patients with common ambulatory orthopedic complaints.
4. Evaluate orthopedic conditions in pediatric patients regarding deformities and growth patterns.
5. Demonstrate basic technical skills in the care and management of orthopedic patients (e.g., arthrocentesis, cast application and removal, etc.).
6. Coordinate physician treatment with ancillary services including physical therapy, occupational therapy, laboratory, radiology, and other clinical services.

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

1. Diagnosis and treatment of orthopedic conditions of clinic, hospitalized, and emergency room patients.
2. Daily discussion of patients' cases seen with the preceptor utilizing a question and answer method.
3. Performing technical procedures under the guidance of the preceptor.
4. Assisting in minor and/or major orthopedic surgery cases.
5. Participating in didactic sessions during latter part of elective in order to gain knowledge in basic orthopedic problems not encountered earlier the rotation.
6. Reading assignments in basic ambulatory orthopedic care.

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

1. Evaluate by direct observation the student's capability to take thorough histories, perform orthopedic examinations, and propose management strategies and discuss complications, discussing complications of these strategies.
2. Evaluate by direct observation the performance of basic orthopedic skills throughout the elective, the quality of the student's oral presentations, and the ability to critically analyze the patient's orthopedic condition.
3. Evaluate by discussion method the student's knowledge gained from assigned readings.
4. Evaluate the student's attitude, behavior, professional appearance, and intellectual curiosity.
5. Utilize the standardized UNDSMHS senior elective form.