

## Elective Description

**Campus:** Southwest (Bismarck)

**Department:** Internal Medicine

**Elective/Experience Title:** Infectious Disease

**Course Number:** IMED 9126

**Location of Elective:** Sanford Health & Clinics of CHI St. Alexius Health - Bismarck, ND

**Preceptor(s):** Supha Arthurs, MD & Noe Mateo, MD

**Period(s) Offered:** all

**Course prerequisites:**

**Number of students per period:** 1

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

**Purpose:** To provide education and experience in the care of patients with an infectious disease.

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

1. Summarize the basic operation of the microbiology laboratory. (competency 1.10, 2.6)
2. Demonstrate the ability to interpret Gram stain and culture and sensitivity results. (competency 2.5, 3.3)
3. Identify appropriate antibiotic therapy based on laboratory results. (competency 3.3, 3.4)
4. Generate an antibiotic treatment plan that accounts for the clinical presentation of the patient (route of medication, difference in absorption, excretion or allergies) and their cultural and socioeconomic factors. (competency 2.9, 3.3, 3.4, 3.9, 6.1)
5. Execute the basic elements of an infectious disease consultation along with appropriate examination of a patient with a suspected infectious disease. (competency 3.1, 3.2, 3.3, 3.4)
6. Generate documentation of infectious disease consultations and clinic visits in the electronic health record (competency 3.7)
7. List current child and adult immunization schedules. (competency 2.7, 2.8)
8. Summarize knowledge regarding common infectious disease cases encountered in the hospital and clinic. (competency 2.1, 2.2, 2.6, 2.7)
9. Summarize the major classes of antibiotics used in treatment of infectious disease including the medication's indications for use, spectrum of activity, indications for altering dose and potential toxicities. (competency 2.4, 2.6)

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

1. Infectious disease rounds at Altru Hospital.
2. Review plates and operational techniques in the microbiology lab (may be one half day for two weeks).
3. Infectious disease consultations guided by infectious disease attending providers.
4. Outpatient care of infectious disease patient cases including patients with HIV infection.

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

1. Utilize the standardized UNDSMHS senior elective evaluation form.
2. Evaluate through direct observation the student's ability to perform a thorough history and physical, integrate laboratory results, construct a differential diagnosis for suspected pathogens, and formulate a plan for diagnosis and treatment of infectious disease patients. (*objective 2,3,4,5*)
3. Evaluate the student's written communications including histories and physicals, progress notes, and consultations. (*objective 6*)
4. Evaluate the student's knowledge of infectious diseases and the microbiology lab through case discussion of common and important infectious disease problems including community acquired pneumonia, urinary tract infections, meningitis, and STDs. (*objective 1, 8*)
5. Evaluate the student's ability to recite from memory pediatric and adult immunization schedules. (*objective 7*)
6. Evaluate the student's ability to recite the common categories of antibiotics along with their known spectrum of activity, toxicities, and indications for altering dose. (*objective 4, 9*)