

## Elective Description

**Campus:** Northeast (Grand Forks)

**Department:** Biomedical Sciences

**Elective/Experience Title:** Advanced Human Anatomy

**Course Number:** BIMD 9501

**Location of Elective:** UND SMHS Department of Biomedical Sciences - Grand Forks, ND

**Preceptor(s):** Patrick Carr, PhD; Mandy Meyer, PhD; Chernet Tessema, PhD

**Period(s) Offered:** 10 & 11

**Number of students per period:** 1-5

**Purpose:** To provide education and experience in the application of anatomical knowledge to clinical problems.

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

1. Develop and demonstrate a comprehensive understanding of the gross anatomical composition of a self-selected structural, systemic or regional area of interest.
2. Conduct a thorough cadaveric anatomical dissection of a self-selected structural, systemic or regional area of interest and associate the cadaveric dissection with corresponding, appropriately-selected and detailed digital clinical images.
3. Apply knowledge of the 3-dimensional (cadaveric) and 2-dimensional (clinical imaging) anatomy to clinical issues commonly associated with the self-selected structural, systemic or regional area of interest.

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

1. Dissection of human cadavers, appropriate to the goals of their dissection, using a dissecting guide and an atlas.
2. An introductory instructional session prior to commencing dissections to ascertain student's goals for the course.
3. Conferences in the dissection room with the preceptor to monitor student's progress, to suggest dissection methods, to discuss clinical matters related to the region under dissection, and to answer questions.
4. Presentation of a 30 minute oral capstone seminar with accompanying visual documentation describing the detailed findings of the cadaveric dissection, the corresponding radiology and related clinical anatomy of the region of interest.

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

1. Evaluate, through direct observation and discussion, the student's knowledge of the anatomical region being studied.
2. Evaluate the student's knowledge of specific regional gross and radiologic anatomy and its application to clinical problems through an oral examination that coincides with the capstone seminar.
3. Utilize the standardized UNDSMHS senior elective evaluation form.