

# **HK\*4441/2: Advanced Study in Human Anatomy**

**Human Health and Nutritional Sciences  
University of Guelph  
Fall-Winter (2.0 Credits)**

## **Course Instructor:**

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## **Teaching Assistant**

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## **Seminar Time**

Tuesday, Thursday 10:00 – 11:20 a.m., Science Complex, Room, 2315

## **Required Materials**

1. Blue Laboratory Coat (to be purchased through Human Anatomy)

## **Introduction**

Students will explore concepts of health and disease using an inquiry-based approach to studying the human body. Investigation of the clinical- and research-based applications of anatomy will allow students to integrate material learned in previous courses and gain experience conducting independent research.

Students will use their knowledge in anatomy to develop educational material and teach anatomical concepts and applications of human anatomy.

## **Contributions to Learning Objectives**

This course will specifically address the following of the University's learning objectives: literacy, understanding forms of inquiry, depth and breadth of understanding, independence of thought and love of learning.

Students who successfully complete this course will:

- Demonstrate a love of learning that may be reflected in: intellectual curiosity, the ability to ask useful kinds of questions, dissatisfaction with simply accumulating facts or data. (Excerpt from the University of Guelph learning objectives)
- Develop oral communication skills and the ability to facilitate discussion with responsiveness and adaptability
- Improve writing competency, with an emphasis on providing the salient information
- Actively work in small team-based learning groups with the opportunity to engage in constructive discussions

- Engage in a cross directional exchange of information with health care professionals and other outreach participants
- Understand organizational and functional relationships between anatomical structures; this understanding will be used to enhance the students' ability to consider clinical- and/or research-based applications
- Create educational materials (e.g., cadaver-based prosections, videos) for use in the human anatomy program

### **Methods of Presentation**

Course material will be addressed in a self-directed, small group, laboratory-based learning environment. Weekly class time will provide a forum for students to engage in group discussion, to develop effective research and writing skills, and engage in a self and peer-review process.

In order to develop the learning objectives of the course, several strategies are employed.

1. Students are divided into teams that are tasked with creating a series of prosections. These are conceptualized and created to provide useful teaching tools for the anatomy program. Throughout the year students are asked to reflect on the relevance of their work, and how it may be adapted or improved for the future. The work will be assessed in the form of a photographic assignment that assesses the rationale for dissection, logical progression of images and skill of the work.
2. Through facilitating sessions in the 'Outreach Program', students will improve oral communication skills, and foster responsiveness and adaptability as they interact with learners and professionals from other institutions. Assignments will be tailored toward generating ideas for improvement of the outreach program and, subsequent implementation. Further, an oral presentation will give students an opportunity to apply their communication skills to present an engaging anatomy talk to their peers.
3. Students develop written communication skills by gathering and synthesizing primary literature. The emphasis is on clear, concise writing appropriate to the audience. Each assignment will be tailored to a different audience.

### **Method of Evaluation**

<b>Assignment</b>	<b>Fall Component (weight)</b>	<b>Winter Component (weight)</b>
<b>Dissection Atlas</b>	7.5	12.5
<b>Dissection Progress Report</b>	5	5
<b>Anatomy Teaching Seminar</b>	7.5	10
<b>Outreach Sample Session</b>	7.5	10
<b>Newspaper Article</b>	10	10
<b>Participation</b>	5	10