

Undergraduate Research Opportunity

Area of Research or Title of Proposed Research Project: The effects of dietary macronutrient composition on satiety in lean and obese cats	
Name and department of the supervisor: Dr. Adronie Verbrugghe Department of Clinical Studies	Type of the research opportunity available (check all that apply) <input checked="" type="checkbox"/> Research in Animal Biology (ANSC4700/4710) <input type="checkbox"/> Research Volunteer
Semester(s) and Year, e.g. F2023/W2024: F2023 & W2024	Application deadline:
List 2-5 specific things you feel a student will learn during this position. The student will become familiar with basic bench-top laboratory procedures, including preparing and running ELISA kits, handling, pipetting, and aliquoting serum, and forming reagents for analyses. In addition, the student will have the opportunity to learn proper cat handling skills by providing social enrichment to the Cat Colony cats throughout the duration of the semester. The student will become familiar with the idiosyncrasies of cat nutrition, specifically regarding macronutrient metabolism and satiety hormone regulation and will be guided through the process of developing a well-research literature review, proposal, and final research manuscript. The student will have the opportunity to participate in monthly research/journal club meetings by helping to prepare reports, discuss issues and/or findings, and practice critical reading of scientific literature. By engaging in these activities, the student will further enhance their communication skills and critical thinking skills.	
Which 2-5 knowledge, skills, or attitudes are most relevant to this position? 1. Knowledge: Scientific 2. Skill: Critical and Analytical Thinking 3. Skill: Teamwork and Collaboration 4. Skill: Time Management 5. Attitude: Initiative	

Application Requirements

1. Indicate the research course code on the cover letter accompanying the application package
2. Meet minimum course requirements, as outlined in the Undergraduate Calendar

Courses and/or Experiences that are Required or Recommended for the proposed position (s):

BIOC 2580 (Required)

BIOC*3560 (Recommended)

NUTR 3210: (Required)

ANSC*4560 (Recommended)

WHMIS Training/Certificate (Required)

Experience in a laboratory setting (handling and preparing samples, running ELISA kits, etc.) is recommended, though training for lab analyses will be provided.

Hands on animal experience is recommended though not required.

Contact information:

Dr. Adronie Verbrugghe, Email averbrug@uoguelph.ca

Documents Required of Applicants

Cover Letter Resume or CV Unofficial Transcript

Statement of Interest in Research, addressing the following questions: Why do you want to do research (and in particular a 4th year project)? Why do you want to do research in this lab specifically? What are your future goals/aspirations, for example, are you potentially interested in graduate research work or even research as a career?

*Submit your application package to the faculty members offering research projects that interest you. You may apply for up to five (5) projects.