

# Andrews University



## Department of Biology

### UNDERGRADUATE RESEARCH APPLICATION

**THANK YOU** for your interest in pursuing undergraduate research in biology at Andrews University! Research brings rich opportunities for you but also requires significant commitment. You will want to be fully aware of both opportunities and required commitments before you complete and submit this contract.

**OPPORTUNITIES:** When you participate in research, you will:

- Learn science by doing it, participating with others and an experienced mentor. You will work in one of a diverse set of research labs or teams (see below).
- Gain significant one-on-one experience with your faculty mentor. This is a great way to earn an excellent recommendation – if you are diligent and faithful!
- Develop essential personal competencies for professional or graduate school, and for employment. Critical thinking, problem solving, diligence & persistence, teamwork, etc.
- Contribute in a real way to pushing back the boundaries of ignorance! This is fun!
- In most cases, develop a project far enough that you earn authorship on the resulting presentation or publication.

**RESPONSIBILITIES:** Research also comes with core commitments, and you need to understand this right up front. Before you begin, you must commit to:

- Consistently display a high standard of professionalism & ethics. This includes reliability & punctuality, high integrity in the collection and use of data, and faithful note-taking as instructed by your mentor.
- Register for BIOL 495 – Research in Biology (0-4 credits) or HONS 497H – Honor Research (2 credits)
  - Participate in general research meetings at 1:30 – 2:20 on Friday, approximately once per month
  - Dedicate at minimum the following numbers of hours to research: 60 hours for 0-1 credits, 120 hours for 2 credits, 180 hours for 3 credits, with sufficient time each week to keep your project running smoothly (as determined with your mentor)
- The list below contains the contact information for each of the Research labs in the biology department.

Research Lab	Faculty Mentor	Contact
Paleobiology Lab	Dr. Tom Goodwin	<a href="mailto:goodwin@andrews.edu">goodwin@andrews.edu</a>
Vertebrate Conservation & Ecology Lab	Dr. Daniel Gonzalez	<a href="mailto:gonzalezd@andrews.edu">gonzalezd@andrews.edu</a>
Proteolysis Lab – Cell and Molecular biology	Dr. Peter Lyons	<a href="mailto:lyons@andrews.edu">lyons@andrews.edu</a>
Yeast Lab – Cell biology	Dr. Marlene Murray	<a href="mailto:mmurray@andrews.edu">mmurray@andrews.edu</a>
Invertebrate Neurobiology & Behavior Lab	Dr. David Mbungu & Dr. Benjamin Navia	<a href="mailto:mbungu@andrews.edu">mbungu@andrews.edu</a> <a href="mailto:bnavia@andrews.edu">bnavia@andrews.edu</a>
Soil Microbiology Lab	Dr. Robert Zdor	<a href="mailto:zdor@andrews.edu">zdor@andrews.edu</a>
Mammal Hearing Lab - Physiology	Dr. Amanda Moore	<a href="mailto:moorea@andrews.edu">moorea@andrews.edu</a>

**QUESTIONS?** Contact the Undergraduate Research Coordinator for the Department of Biology, Dr. Benjamin Navia ([bnavia@andrews.edu](mailto:bnavia@andrews.edu)).

## BIOLOGY UNDERGRADUATE RESEARCH PROGRAM APPLICATION

**Deadline to submit application is March 10 at 11:59 pm. Email application to Dr. Navia ([bnavia@andrews.edu](mailto:bnavia@andrews.edu)).**

Name: \_\_\_\_\_ ID# \_\_\_\_\_ Major: \_\_\_\_\_

Phone number: \_\_\_\_\_ Email: \_\_\_\_\_

Class standing:  Freshman  Sophomore  Junior  Senior  Honors Program

Term for research\*:  Fall  Spring  Summer Year: \_\_\_\_\_

*\*It is often beneficial to carry out research over at least two semesters. If this is your interest, please check more than one semester. Tell us about your interest in research! Why would you like to pursue this opportunity—given the significant responsibilities it entails?*

**Research preference:** From the list of research labs or teams on the prior page, visit with a mentor from 3 different labs. List the lab below, have the faculty member sign (indicating you have visited with them – not a promise to take you as a research student) and rate them from 1 (most interest) to 3 (least interest).

Lab or Team	Faculty Signature	Rank Interest (1-3)

**PERSONAL COMMITMENT** - Given the significant responsibilities that come with the privilege of research, my initials beside each of the following points indicate that I understand and agree to each commitment.

Initials

Commitment

\_\_\_\_\_  
Consistently follow high standards of professionalism and ethics in my work. This includes, but is not limited to, being reliable, punctual, showing integrity in the collection and use of data, and faithfulness & care in note-taking.

\_\_\_\_\_  
Register for BIOL 495 (0-4 credits) or HONS 497H (0 – 2 credits)

\_\_\_\_\_  
**Participate in monthly research meetings** (see page 1), as scheduled, by either presenting or attending.

\_\_\_\_\_  
Dedicate at least the minimum hours required by research credit registration (60 hours for 0-1 credits, 120 hours for 2 credits, 180 hours for 3 credits).

\_\_\_\_\_  
Follow the weekly research schedule agreed on with my mentor to ensure timely completion of the project – even when I have other pressing commitments, such as tests.

My signature below indicates that I have serious intent to participate in undergraduate research in biology and I have truthfully completed this application.

Name (printed): \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

*The status of your application will be conveyed to you within 15 days of application deadline.*

### FOR OFFICE USE ONLY

Application received date: \_\_\_\_\_ Approved: Y / N Date: \_\_\_\_\_

Approved by: \_\_\_\_\_

Lab Assigned: \_\_\_\_\_