

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)

Research Lab	Faculty Mentor	Contact
Seabird Ecology Team	Dr. James Hayward & Dr. Shandelle Henson	hayward@andrews.edu henson@andrews.edu
Proteolysis Lab	Dr. Peter Lyons	lyons@andrews.edu
Cancer Biology Lab	Dr. Denise Smith	denises@andrews.edu
Soil Microbiology Lab	Dr. Robert Zdor	zdor@andrews.edu
Paleobiology Lab	Dr. Tom Goodwin	goodwin@andrews.edu
Vertebrate Conservation & Ecology Lab	Dr. Daniel Gonzalez-Socoloske	gonzalezd@andrews.edu
Invertebrate Neurobiology & Behavior Group	Dr. David Mbungu & Dr. Benjamin Navia	mbungu@andrews.edu bnavia@andrews.edu
Yeast Lab	Dr. Marlene Murray	mmurray@andrews.edu
Cancer Chemoprevention and Phytotherapy	Dr. Brian Wong	wongb@andrews.edu

QUESTIONS? Contact the Undergraduate Research Coordinator for the Dept. of Biology, Dr. Benjamin Navia (bnavia@andrews.edu; X6527)

BIOLOGY UNDERGRADUATE RESEARCH APPLICATION

DEADLINES: Applications for research to start summer or fall semester are to be turned in to the Biology office by March 1.

Name: _____ ID# _____ Major: _____

Phone number: _____ Email: _____

Class standing: Freshman Sophomore Junior Senior

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 for 3 different labs/teams. List the lab/team 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.

<u>Initials</u>	<u>Commitment</u>
	Consistently follow high standards of professionalism and ethics in my work. This includes, but is not limited to, being reliable, punctual, showing high integrity in the collection and use of data, and faithfulness & care in note-taking.
	Register for BIOL 495 or HONS 497H
	Participate in monthly research meetings at 1:30 – 2:20 on Friday, as scheduled.
	Dedicate <u>at least</u> 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 <u>weekly research schedule</u> 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: _____