



Location: Gainesville FL Date: 04/17/2019  
City State

Organization: University of Florida, Department of Pharmacodynamics

\*Contact Person(s): Brandon Warren, PhD  
*\*Must have at least a Bachelor's degree in a related field and a minimum of 2 years' experience within the discipline.*

Address: 1345 Center Dr Gainesville FL 32610  
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Phone: 352-273-7010 Fax: \_\_\_\_\_

Email: brandon.warren@cop.ufl.edu Website: http://www.warren-lab.com

What semesters is your organization available to accept interns?  
 Fall (August-December)  Spring (January-April)  Summer (May-August)

Please check the specializations that best pertain to the internship experience offered:

Exercise Physiology  Fitness/Wellness

How many interns do you typically accept per semester? 1

Interns must complete a minimum of 35-40 hours per week (520 hours total). List the normal working hours for your organization. Please indicate any evening or weekend time commitments:

Interns are expected to work between 9 am to 5 pm Monday through Friday, with occasional weekend time commitments.

Is office space available to interns?  Yes  No \_\_\_\_\_  
Comments

Is a computer/scanner available to interns?  Yes  No \_\_\_\_\_  
Comments

Does your organization offer paid or non-paid internships?  Non-paid  Paid (amount) \_\_\_\_\_

List other benefits your organization offers interns (i.e. housing, health insurance, travel reimbursement, etc.)  
None.

List required purchases for interning with your site (e.g. parking pass, uniform, back-ground check, etc.):  
None.

List required skills or previous experience necessary for interning with your organization:

Interns must have previous rodent research experience.

Special Requirements (i.e. special application, proof of health insurance, immunizations, etc.)

*Please note: All interns are required to purchase professional liability insurance coverage for \$1,000,000*

Interns must complete animal contact medical monitoring, and animal care and use training prior to joining.

Provide a bulleted list of duties/responsibilities your organization expects to be fulfilled by interns:

Interns are expected to:

- Handle, restrain, and inject rodents.
- Record behavioral data on wheel running, food intake, and drug intake.
- Analyze behavioral data, including perform statistical analysis and graphing of data.
- Present findings both internally at lab meetings and at regional conferences.
- Slice and perform immunohistochemical analysis of rodent brains.
- Image sections of rodent brains using fluorescent or bright-field microscopy.
- Perform quantitative and qualitative analysis of microscopic images.

Please describe a typical day for the intern:

A typical day would start by coming in at a set time to train rats to self-administer addictive drugs, or to run on an exercise wheel. These session typically lasts up to 3 hours. The intern would place the rat into the chamber, start the program and return to the wet-lab. The intern would then spend this time slicing brains on a freezing cryostat, performing immunohistochemistry, or image brain sections on our microscope to identify biochemical changes associated with drug intake or wheel running, The intern would then return to the behavior room at the end of the behavior to remove rats from the testing chamber and return them to their home cage. The intern would clean the behavioral boxes, sweeps the room, then collects the data from the analysis computer and return to the wet-lab. There, the intern inputs the data into excel, analyzes and graphs the data using GraphPad Prism software. The intern would then create a powerpoint presentation showing this data and prepare to present it at the upcoming lab meeting. At the end of the day, the intern would sweep the lab, wipe the countertops, wash any glassware, and leave the lab.

Interns must be evaluated on at least 6 of the following Student Learning Outcomes (SLO's). Please check each SLO that applies to the duties/responsibilities provided to interns at your organization.

APK Student Learning Outcomes (SLOs)	Applied Examples <i>(These examples used to describe each SLO are not exclusive; they are simply intended to provide clarity to the individual SLOs)</i>
<input checked="" type="checkbox"/> Integrate principles and methods of math, social sciences, and arts and humanities to applied physiology and kinesiology, wellness, and/or fitness environments.	<ul style="list-style-type: none"> <li>• Intern can perform body composition calculations.</li> <li>• Intern can identify socioeconomic impacts on health and fitness behaviors.</li> <li>• Intern can calculate target and max heart rates in order to prescribe aerobic exercise.</li> </ul>
<input type="checkbox"/> Identify and relate the nomenclature, structures, and locations of components of human anatomy to health, disease, and physical activity.	<ul style="list-style-type: none"> <li>• Intern can identify muscles used in specific exercises and name other exercises that use those muscles.</li> <li>• Intern can name specific structures damaged by pathologies like diabetes.</li> </ul>
<input checked="" type="checkbox"/> Identify, examine, and explain physiological mechanisms of homeostasis at various levels of an organism (i.e., cells, tissues, organs, systems).	<ul style="list-style-type: none"> <li>• Intern can explain the baroreflex.</li> <li>• Intern can explain why skeletal muscle cells atrophy when immobilized.</li> <li>• Intern can describe the impact of respiration on blood pH.</li> </ul>
<input checked="" type="checkbox"/> Investigate and explain the effects of physical activity on psychological health as well as the perspectives used to enhance adherence to healthier lifestyles.	<ul style="list-style-type: none"> <li>• Intern can explain how exercise helps depression.</li> <li>• Intern knows where to locate information related to psychological health impacts of various activities.</li> <li>• Intern can identify and properly refer individuals with eating disorders.</li> </ul>
<input checked="" type="checkbox"/> Identify and explain the acute and chronic anatomical and physiological adaptations to exercise, training, and physical activity.	<ul style="list-style-type: none"> <li>• Intern can explain why resting HR and BP are reduced following endurance training.</li> <li>• Intern can identify immediate and long-term benefits of resistance training.</li> </ul>
<input type="checkbox"/> Select and utilize the appropriate scientific principles when assessing the health and fitness of an individual and prescribing physical activity based on those assessments.	<ul style="list-style-type: none"> <li>• Intern can select a safe fitness test for a cardiac patient.</li> <li>• Intern can perform skinfold testing and use that data to prescribe appropriate amounts of exercise.</li> </ul>
<input checked="" type="checkbox"/> Solve applied physiology and kinesiology problems from personal, scholarly, and professional perspectives using fundamental concepts of health and exercise, scientific inquiry, and analytical, critical, and creative thinking.	<ul style="list-style-type: none"> <li>• Intern can describe which populations might be prone to ankle sprains.</li> <li>• Intern can identify medications which might lead to an impaired ability to perform aerobic exercise.</li> <li>• Intern can prescribe exercise to suit the goals of clients based on fitness assessments.</li> </ul>
<input checked="" type="checkbox"/> Collect, compare, and interpret qualitative or quantitative data in an applied physiology and kinesiology context.	<ul style="list-style-type: none"> <li>• Intern can perform a submaximal VO<sub>2</sub> test and use the collected data to classify the subject's level of fitness.</li> <li>• Intern can perform a laboratory experiment and compare their results to other similar studies.</li> </ul>
<input checked="" type="checkbox"/> Effectively employ written, oral, visual, and electronic communication techniques to foster inquiry, collaboration, and engagement among applied physiology and kinesiology peers and professionals as well as with patients, clients, and/or subjects.	<ul style="list-style-type: none"> <li>• Intern can explain to a patient the importance of hydration during exercise.</li> <li>• Intern can generate professional emails to ask scientific or medical questions.</li> <li>• Intern can generate an abstract to present research at a scientific or medical conference.</li> </ul>

Would you like to be added to the Department's list of approved sites for future interns?  Yes  No

Name of student requesting completion of the site approval form (if applicable): \_\_\_\_\_

I have reviewed the APK Undergraduate Internship Policies and Procedures Manual: 04/17/2019 \_\_\_\_\_ Date

Site Signature: **Brandon Warren** Digitally signed by Brandon Warren Date: 2019.04.17 10:52:43 -04'00' \_\_\_\_\_ Date: 04/17/2019

Department Approval: **Blain Harrison** Digitally signed by Blain Harrison DN: cn=Blain Harrison, o=Applied Physiology and Kinesiology, ou\_email=blainharrison@ufl.edu, c=US Date: 2019.04.18 08:31:07 -04'00' \_\_\_\_\_ Date: \_\_\_\_\_