Q1.
APPLIED PHYSIOLOGY AND KINESIOLOGY (APK)
INTERNSHIP SITE APPROVAL FORM

Q2.
The **Department of Applied Physiology and Kinesiology** (APK) at the University of Florida would like to thank you in advance for taking the time to complete the approval process and your willingness to provide valuable internship opportunities to our students. The Department of APK requires that all undergraduates complete a 12-credit internship experience and graduate students complete a 5-credit internship experience during their final semester. The experience requires a minimum of 520 clock hours for undergraduates and 600 clock hours for graduate students, or 35-40 hours a week for 15 weeks, for the Fall and Spring semesters or 40-45 hours a week for 13 weeks, for the Summer semester. Ideally, interns become exposed to the tasks that will be required of them as professionals in the field, as well as receive opportunities to develop their skills and areas of interest within their specialization. The specializations within the department are:

Exercise Physiology (Undergraduate): Prepares students interested in pursuing a career in one of the health professions or graduate study in exercise science. The curriculum provides a strong basic science background and requires additional course work in the biological aspects of exercise. For intern hours in this specialization, students are expected to complete hours in a biomedical research setting related to exercise and/or sport.

Fitness/Wellness (Undergraduate): prepares students to function as an exercise technician, exercise specialist, and/or wellness instructor in hospital, corporate, private, or governmental agencies. The curriculum emphasizes practical aspects of fitness and wellness.

Human Performance (Graduate): The Human Performance concentration is a non-thesis program leading to a Master of Science degree in Applied Physiology and Kinesiology. Its purpose is to train students for careers where they can promote scientifically based exercise, wellness, and psychological factors to enhance health, athletic development and/or movement performance. Furthermore, students will be trained to be an integral part of the health care team that administers, assesses, and develops programs for clinical populations.

Please review the APK Internship Policies and Procedures Document to gain a better understanding of the expectations of students and site supervisors during the experience.

Q5. Organization Name

Autonomic Neuromodulation Lab

Q6. Organization Location(s) - Include Addresses Of All Locations To Be Included As Part Of This Approval

Malcom Randall VA Medical Center, 1601 SW Archer Road, Gainesville, FL 32608

Q7. Name of Individual Who Will Receive Applications From Students

Matthew Schiefer

Q8. Email Address of Individual Who Will Receive Applications From Students

matthew.schiefer@va.gov

Q9. Phone Number of Individual Who Will Receive Applications From Students

352-548-6000 x105374

Q10. URL of Website For Organization

Q11. Name of Individual Who Will Supervise Students Directly During Internship and Complete Evaluations

Matthew Schiefer

Q12. Email Address of Individual Who Will Supervise Students Directly During Internship and Complete Evaluations

matthew.schiefer@va.gov

Q13. Phone number of Individual Who Will Supervise Students Directly During Internship and Complete Evaluations

352-548-6000 x105374

Q14. What Semester(s) Is Your Organization Available To Accept Interns? (select all that apply)

- [x] Fall (August - December)
- [x] Spring (January - April
- [x] Summer (May - August)

Q15. APK Internship Policy requires that a site supervisor hold one degree higher than the student intern. This means that site supervisors of undergraduate interns must hold at least a bachelor's degree and those of graduate interns must hold at least a master's degree. Based on this policy, for which category of students is your organization willing to accept applications? Check all that apply

- [x] Undergraduate Students
- [x] Graduate Students

Q16. How many interns is your organization willing and able to support per semester?

3

Q17. Describe the normal working hours anticipated for an intern at your organization. Please indicate likelihood and circumstances surrounding any evening or weekend time commitments.

The anticipated working hours varies with the specifics of the internship. There are two primary and independent tasks. The first task, which includes recording from autonomic nerves during physiological perturbations, could take anywhere from 8 to 12 hours per experiment with up to 5 experiments per week. If the experiment runs to 12 hours, this would include early evening work. The duration of the experiment depends on the rate of surgical access to the nerves at the beginning of the experiment. The second task, which includes autonomic nerve stimulation, will require less daily time, occasionally as few as 4 hours per day, but will likely require a daily effort.

Q18. Does your organization offer non-paid or paid internships?

- (•) Non-paid
- ( ) Paid (amount)

Q21. List other benefits your organization offers interns (i.e. housing, health insurance, travel reimbursement, etc.)

Free parking at the VA medical center

Q22. List required purchases for interning with your organization (i.e. parking pass, uniform, I.D. Badge, etc.)

No required purchases other than work-appropriate clothing. Interns should not wear shorts or t-shirts. Interns must wear close-toed shoes.

Q23. List required skills or previous experience necessary for interning with your organization

All skills will be taught and no prior experience is required. Interest in the nervous system and/or obesity is preferred. Willingness to conduct animal experiments is required. Experience with rodent handling is preferred. Willingness to perform surgery is required for one of the internship options.

Q24. List any special credentials or documents required to intern with your organization (i.e. CPR/First Aid, Liability Insurance, Personal Training Certification, OSHA training, HIPPA training, Pre-Internship orientation, background check)

Interns will be required to complete several forms and online tests per government regulations. Interns will be required to obtain an ID, which requires a background check. These requirements will have to be completed before research can start and are expected to take approximately 6 weeks. Interns will likely be required to attend a VA orientation, but this may occur after the start of the internship.

Q25. Provide a bulleted list of duties/responsibilities your organization expects to be fulfilled by interns:

• All required online training modules to conduct research. • Fully conduct nerve recording/stimulation experiments. • Analyze data and report back to PI.
• Goal (not required): Submit abstract to and attend conference to present results.

Q26. Please describe a typical day for the intern:

For nerve recording experiments: On experimental days, the intern will need to acquire a rat from the housing facility and transport the animal to the laboratory. The animal will need to be anesthetized and a steady plane of anesthesia will be maintained throughout the experiment. The intern will surgically expose the stomach and 2 nerves. A balloon will be implanted into the stomach and the stomach will be sutured closed. Recording electrodes will be inserted in the nerves. All surgery and surgical implants will be conducted with a surgical microscope. The intern will then enter specific values into a computer program and run the program, which will inflate the balloon and record neural signals. The intern will be taught to troubleshoot the experimental setup to ensure the signals look as expected. On non-experimental days, the intern will need to upload the data to the UF HiPerGator system and run analysis software. The intern may be tasked with looking for additional/alternative analyses to determine if there are better ways of quantifying the data. The software will return summary tables, which can be added to a database for statistical analysis. For nerve stimulation experiments: This study involves rats that have been or will have been implanted with nerve cuff electrodes. The intern will be responsible for all of the following: • Checking on the rats every day to ensure that the wires going from the implanted electrodes to the stimulator appear to be properly attached. • Ensuring the correct wires are attached to the stimulator. These wires will change on a monthly basis. • Weighing the rats on a regular basis, at least once per month, but likely more often. • Weighing all food that enters each cage and all food that exits each cage • Ensuring that there is always food and water in the cage. • Clean the cages once per week. • Downloading video data and migrating it to a computer for video analysis of each animal's movement. • Using specialized software to analyze movement of each rat. • Compiling all weight, food, and movement data into a database for statistical analysis. • The intern may be required to program the stimulator. If so, the intern will be taught how to do this. If the intern is present and interested when electrodes are being implanted, the intern may be taught how to implant nerve cuff electrodes and asked to implant electrodes in other rats. The intern will also be required to check on the health and recovery of the rats following surgical implantation. For both types of internship, the intern will be required to conduct on-going literature searches, review the literature, and update the PI on recent findings or findings that the intern believes can improve the project. The PI and intern will meet on a weekly basis separate from experimental time to assess updates in the literature.

Q28. Interns must be evaluated on at least 6 of the following 9 Student Learning Outcomes (SLO's). Please check each SLO that applies to the duties/responsibilities provided to interns at your organization.

- [x] Integrate principles and methods of math, social sciences, and arts and humanities to applied physiology and kinesiology, health, wellness, and/or fitness environments.
- [x] Identify and relate the nomenclature, structures, and locations of components of human anatomy to health, disease, and physical activity.
- [x] Identify, examine, and explain physiological mechanisms of homeostasis at various levels of an organism (i.e., cells, tissues, organs, systems).
- [ ] Investigate and explain the effects of physical activity on psychological health as well as the perspectives used to enhance adherence to healthier lifestyles.
- [ ] Identify and explain the acute and chronic anatomical and physiological adaptations to exercise, training, and physical activity.
- [ ] Select and utilize the appropriate scientific principles when assessing the health and fitness of an individual and prescribing physical activity based on those assessments.
- [x] 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.
- [x] Collect, compare, and interpret qualitative or quantitative data in an applied physiology and kinesiology context.
- [x] 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.

Q29. Would you like to be added to the Department's list of approved sites for future interns?

- (•) Yes
- ( ) No

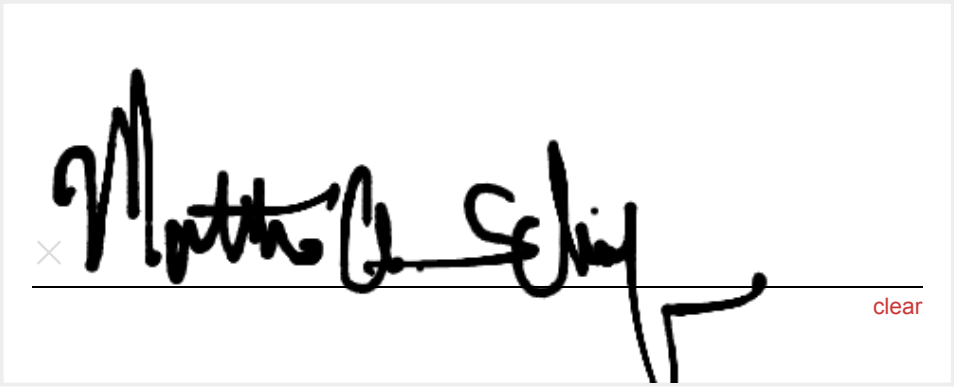
Q32. Have you reviewed the APK Internship Policies and Procedures Manual?

- (•) Yes
- ( ) No

Q30. Signature of Individual Who Will Be Receiving Internship Applications

clear

Q31. Signature of Individual Who Will Be Supervising And Evaluating Students During The Internship



clear

Location Data

Location: (29.695404052734, -82.402297973633)

Source: GeoIP Estimation