

Examples of Previous Conducted IPHY Independent Study (IPHY 4860)

For reference use only, not a guarantee for the acceptance of a project

Which faculty?	What topic?	Expected Outcome
Cynthia Carey	Review epigenetics research to determine its impact on medicine/ healthcare	2 credit hours and 20 pages paper
Thomas Johnson James Cypser	Investigate how long mutant <i>C. elegans</i> that have an extended life-span move and appear healthy	A PowerPoint presentation at a lab meeting and receive feedback
Suzanne Nelson	Understand gluten in the diet and the possible connection of gluten and GMO	Presentation to class
Monika Fleshner	If rats exercise during juvenile phase of their lives, will they be less susceptible to the negative effects of uncontrollable stress?	Presentation: 20-45 minutes
Ruth Heisler	Research the causes of human stroke	Assist with dissection on brain and arterioles (2 hours/week) Final paper about 8 pages
Monique LeBourgeois	Teach statistics as well as new teaching methods	Gain teaching experience as well as help reconstruct the statistics course
Barbara Demmig-Adams	Review an antioxidant supplement manuscript	The manuscript to be published
Roger Kram	Assist with the design, testing and building a bicycle for obese individuals	Have a technical write-up and build a prototype
David Sherwood	Explore topics in motor learning	Series of approximately 5 short papers
Christopher Lowry	Review literature on hormonal control of social bonding with a focus on oxytocin	Oral presentation (40 minutes)
Janet Casagrand	What factors affect university science education and the professors' attitude towards using evidence-based techniques?	Paper (10-15 pages)
Jerry Stitzel	Inform first year students of research that can be applied to the health professions	Develop a RA program for the HPRAP
Pei-San Tsai	Lab research on the suprachiasmatic nucleus and the vasoactive intestinal peptide neurons	Power Point presentation (5-10 minutes) on the outcome of research
Douglas Seals	How nicotinamide adenine dinucleotide (NAD) can be	Presentation of research finding to lab members

	used to treat arterial aging	
Nicole Makris	Data collection on pain medication used in athletes	Paper (20-30 pages)
Kristin Lopez	Study amenorrhea in athletes	Paper (10-20 pages)
Stacey Forsyth	Teach science classes to K-12	Outreach through Science Discovery
Heidi Bustamante	Investigate factors such as obesogens and sleep on diabetes	Paper/presentation
William Byrnes	Data collection for examining the total hemoglobin mass, VO2max and endurance capacity	Lab presentation
Kenneth Wright	Study the effect of bright and dim light on metabolic processes	One hour presentation of the research finding
Robert Mazzeo	Study the utility and efficacy of the current teaching methods in IPHY 4650	A video presentation outlying the new teaching methods developed by IPHY 4650
Alaa Ahmed	Investigate sensory/motor learning	Paper on projects with literature review and methods