Special Permission Required

Course Description	The purpose of this course is to enable the student to increase his/her knowledge of experimental pathology and how research can be applied to clinical medicine through hands on participation in a research project that will lead to poster presentation and/or publication.			
Course Objectives	 Understand research design including hypothesis generation, selection of study groups, and statistical analysis. Demonstrate proficiency in performance of immunohistochemical and molecular testing and other research methods as applicable. Describe and discuss the IRB submission process. Create appropriate spreadsheets for study data and perform data compilation. Describe and discuss the appropriate use of basic statistical analysis and statistical methods Compose and submit a project abstract for presentation/publication at a national meeting. Learn and utilize image analysis technology- flow cytometry, laser scanning cytometry and Aperio, digital Pathology 			
Course Activities	Students will design a study and participate in performing the technical aspects of the study with the assistance of a research technologist. Students will be expected to make observations and document the results of the project, as well as perform data analysis and determine the significance of results of the study as they relate to clinical medicine.			
Course Schedule Requirements	No on-call requirement. Student is present during usual clinical hours (8:00am – 5:00pm, Monday – Friday, excluding holidays as determined by the ECU calendar).			

Duration	4 Weeks	Location	Brody School of Medic	ine/ Vidant	Medical Center
Designation		Elective		Revised	8.23.2019

