CTS 605A - Introduction to Clinical Epidemiology and Biostatistics

Class #: 3211

Course Description
This course reviews basic principles of epidemiology, investigation of disease outbreaks and the application of various observational and experimental research designs and strategies to clinical, epidemiological and translational research. Didactic instruction, readings and problem sets (including lab-based analyses) are utilized to more fully understand epidemics and their causes, as well as various study designs, including cross-sectional studies, case-control studies, cohort designs and randomized clinical trials. Students also will learn how to design surveillance systems and develop and evaluate screening and diagnostic tests. Students are graded on in-class participation and two writing assignments (write-up of lab exercise and in-class student presentation). This is a full semester course with a total of 30 contact hours.

Course Coordinator: Chrysanthopoulou, S
email: Stavroula.Chrysanthopoulou@umassmed.edu
Phone: 774-455-3616
Location: AS7-1076

Course Coordinator 2: None

Prerequisites: None

Credits: 3

Grading: Letter

Associated Programs: MS in Clinical Investigation MS in Clinical Investigation

Class Meeting Information: 7/5/2017-7/31/2017 | Tuesdays & Thursdays | 9am-3pm | AS7-2072

Additional notes: The first Tuesday is the 4th of July so we are going to have that class on Wednesday the 5th instead.

So, only the first week class would be on Wednesday and Thursday and then it will resume to every Tuesday and Thursday for the month of July.

Required Textbooks: Gordis, L. (2009). Epidemiology. Philadelphia: Saunders Elsevier. ISBN: 978-1416040026

D'Agostino, R. B., Beiser, A. S., & Sullivan, L. M. (2006). Introductory applied biostatistics. Southbank, Vic.: Thomson, Brooks/Cole. ISBN: 978-0534423995

Recommended Textbooks: Acock, A. C. (2014). A gentle introduction to Stata. College Station, TX: A Stata Press Publication, StataCorp LP. ISBN: 978-1597181426

BBS 748 - Introduction to Cellular Metabolism and Disease

Class #: 3217

Course Description
This intense 3-week course will expose students to a variety of topics related to cellular metabolism. The course will cover material ranging from foundational principles to current leading-edge research. The principles and mechanisms regulating metabolism will be explored from multiple perspectives, including biochemistry, biophysics, genetics, molecular biology and cell biology.

Course Coordinator: Lewis,B
email: brian.lewis@umassmed.edu
Phone: 64325
Location: LRB 521

Course Coordinator 2: Walker,A

Prerequisites: None

Credits: 2

Grading: Letter

Associated Programs: Pathway to Graduate Study Interdisciplinary Graduate Program Translational Science

Class Meeting Information: 7/17/2017-8/4/2107 | Monday thru Friday | 9am-11am | SWE S7-402

Additional notes:

Required Textbooks:

Recommended Textbooks: