MDID 6370: Online Course: Clinical Research basics Syllabus

Approved: **3/30/2020**

Credit Hours: **1**

Contact Information

Name	Position	Phone/Pager	Email
Candace Chow, PhD	Co-Director		Candace.chow@hsc.utah.edu
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Course Information

Brief Description of Course

This four-week one credit elective is a collection of Coursera-based courses: Understanding the Clinical Research: Behind the Statistics, Introduction to Systematic Review and Meta-Analysis, and Design and Interpretation of Clinical Trials. **You will use the Coursera platform to complete the course at your own pace during this four-week block.**

Coursera's description of the courses are as follows:

Understanding the Clinical Research: Behind the Statistics

"If you've ever skipped over`the results section of a medical paper because terms like "confidence interval" or "p-value" go over your head, then you're in the right place. You may be a clinical practitioner reading research articles to keep up-to-date with developments in your field or a medical student wondering how to approach your own research. Greater confidence in understanding statistical analysis and the results can benefit both working professionals and those undertaking research themselves.

If you are simply interested in properly understanding the published literature or if you are embarking on conducting your own research, this course is your first step. It offers an easy entry into interpreting common statistical concepts without getting into nitty-gritty mathematical formulae. To be able to interpret and understand these concepts is the best way to start your journey into the world of clinical literature. That's where this course comes in - so let's get started!"

https://www.coursera.org/learn/clinical-research

Introduction to Systematic Review and Meta-Analysis

"We will introduce methods to perform systematic reviews and meta-analysis of clinical trials. We will cover how to formulate an answerable research question, define inclusion and exclusion criteria, search for the evidence, extract data, assess the risk of bias in clinical trials, and perform a meta-analysis."

https://www.coursera.org/learn/systematic-review

Design and Interpretation of Clinical Trials

"Clinical trials are experiments designed to evaluate new interventions to prevent or treat disease in humans. The interventions evaluated can be drugs, devices (e.g., hearing aid), surgeries, behavioral interventions (e.g., smoking cessation program), community health programs (e.g. cancer screening programs) or health delivery systems (e.g., special care units for hospital admissions). We consider clinical trials experiments because the investigators rather than the patients or their doctors select the treatment the patients receive. Results from randomized clinical trials are usually considered the highest level of evidence for determining whether a treatment is effective because trials incorporates features to ensure that evaluation of the benefits and risks of treatments are objective and unbiased. The FDA requires that drugs or biologics (e.g., vaccines) are shown to be effective in clinical trials before they can be sold in the US."

https://www.coursera.org/learn/clinical-trials

Course Objectives
In order to successfully complete the course in Clinical Research Basics, students will complete the following courses:

1. Understanding the Clinical Research: Behind the Statistics
2. Introduction to Systematic Review and Meta-Analysis
3. Design and Interpretation of Clinical Trials.

Course Format & Schedule

Timeline
April 13 – May 8

Educational and Instructional Modalities

Modality	Percentage
Asynchronous modules and assessments	100%

Role of the Student in this Course
Actively participate in all activities and thoughtfully complete readings and assignments

Required Textbooks/Readings
See websites:
https://www.coursera.org/learn/clinical-research
https://www.coursera.org/learn/systematic-review
https://www.coursera.org/learn/clinical-trials

Assessment & Grading

	Must Pass/ Must Complete	Due Date
Assignments and Must Complete Elements		
Completion of a one-paragraph individual learning plan for each course regarding plans to incorporate learning into practice	X	Weekly
Completion of each course within specialization	X	Weekly
Completion of survey once all courses in specialization are completed	X	Last day of course (5/8)

Grading System
Students will receive a final letter grade of PASS (P) or FAIL (F) for this course:

PASS: A student who achieves all of the criteria will be assigned a grade of PASS for the course.

FAIL: A student who fails to achieve all of the criteria for PASS will be assigned a grade of FAIL for the course.

Criteria to Pass include: Completion of courses within specialization, completing the individual learning plan to acceptable standards, and completing a follow-up survey once the specialization is completed.

Student Feedback

Providing feedback is an important aspect of your professionalism expectation and helps with our curriculum quality improvement process. Your elective course director or coordinator will inform of you of any course feedback surveys. Surveys must be completed by the due date to demonstrate reliability for the professionalism competency.

Standard Policies

Please refer to the Student Handbook (on the Student Affair's website) for these policies:

Accommodations
Addressing Sexual Misconduct
Dress Code
Examination and Grading Policies
Grade or Score Appeal
Professionalism, Roles & Responsibilities
Mistreatment
Infectious, Environmental and Bloodborne Pathogen Exposures Policy

Alternate Name and/or Personal Pronoun

Class rosters are provided to the instructor with the student's legal name as well as 'Preferred' first name (if previously entered by you in the Student Profile section of your CIS account). While CIS refers to this as merely a preference, we will honor you by referring to you with the name and pronoun that feels best for you in class, on papers, exams, group projects, etc. Please advise us of any name or pronoun changes (and please update CIS) so we can help create a learning environment in which you, your name, and your pronoun will be respected.

Center for Disability & Access

The School of Medicine seeks to provide equal access to its programs, services and activities for all medical students. The Center for Disability and Access (CDA) provides accommodations and support for the educational development of medical students with disabilities. Medical students with a documented disability, and students seeking to establish the existence of a disability, that would like to request accommodations are required to meet with the CDA to establish accommodations. The CDA will work closely with eligible students and the Academic Success Program to make arrangements for approved accommodations. The School of Medicine and CDA maintain a collegial, cooperative, and collaborative relationship to ensure compliance with federal and state regulations for students with disabilities.

Steven Baumann EdD, School of Medicine Senior Director of Academic Success Program, serves as the liaison between the School Of Medicine and the CDA.

Contact Information:
Dr. Steven Baumann, Senior Director of Academic Success Program

Safety Statement

The University of Utah values the safety of all campus community members. To report suspicious activity or to request a courtesy escort, call campus police at 801-585-COPS (801-585-2677). You will receive important emergency alerts and safety messages regarding campus safety via text message. For more information regarding safety and to view available training resources, including helpful videos, visit safeu.utah.edu.