

School of Public Health

Syllabus and Course Information



UNIVERSITY OF MINNESOTA
Driven to DiscoverSM

PubH 3315-001 Clinical Research: From Lab to Bedside to Populations Fall 2015

Credits:	2	
Meeting Days:	Mondays	
Meeting Time:	1:25pm – 3:20pm	
Meeting Place:	D199 Mayo	
Instructor:	Russell V. Luepker, MD, MS Mayo Professor Division of Epidemiology & Community Health	S. Charles Schulz, MD Professor Department of Psychiatry
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Office Hours:	By Appointment	By Appointment

I. Course Description

This course is intended to provide a basic understanding of health research in humans. It describes research methods, contemporary topics, controversies and health careers in the field. The course includes perspectives from dentistry, medicine, nursing, pharmacy and public health. It is intended for students considering a career in the health field.

II. Course Prerequisites

This course requires the following: Biology (Bio 1009), and Chemistry (Chem 1021) or equiv. or instructor consent. It is intended for junior and senior students with an interest in careers in the health sciences.
GPA: Minimum of 3.0

III. Course Goals and Objectives

- An understanding of research methods for human health studies in individuals and populations.
- An understanding of the controversial questions in human health through specific examples and the different approaches to answering these questions through clinical research.
- An understanding of the ethical issues surrounding health research in humans.
- Recognition of potential careers in health research.

IV. Methods of Instruction and Work Expectations

Lecture format
Readings
Exercises and papers

Approximately 2 hours work per classroom hour

V. Course Text and Readings

There is no required text. Readings will be posted on the Moodle as required for each lecture.

VI. Course Outline/Weekly Schedule:

WEEK	DATE	TOPIC	SPEAKER	READINGS/ ASSIGNMENTS
1A	9/14/15	Introduction to Clinical Research	Russell Luepker	Lecture Notes Readings 1-3
1B		Methods I	Russell Luepker	Lecture Notes Assignment 1
2A	9/21/15	Methods II	Russell Luepker	Lecture Notes Assignment 2
2B		Reporting Genetic Data: A Scientific and Ethical Dilemma	Russell Luepker	Lecture Notes
3A & 3B	9/28/15	Cardiovascular Diseases	Selcuk Adabag	Lecture Notes Assignment 1 Due
4A & 4B	10/5/15	Cardiovascular Diseases Ethical Issues	Selcuk Adabag Debra DeBruin	Lecture Notes Lecture Notes Readings 4-5 Assignment 2 Due
5A	10/12/15	Schizophrenia: Diagnosis, Etiology and Treatment	S. Charles Schulz	Lecture Notes Readings 6-8
5B		Clinical Research in Mental Health	S. Charles Schulz	Lecture Notes
6A	10/19/15	Psychosocial Research in Schizophrenia	S. Charles Schulz	Lecture Notes Readings 9-13 Assignment 3A or Assignment 3B
6B		Schizophrenia Brain Imaging and Genetic Research	S. Charles Schulz	Lecture Notes
7A & 7B	10/26/15	Predictors of HIV infection and HIV prevention efforts including vaccine trials	Frank Rhame	Lecture Notes
8A & 8B	11/2/15	Midterm Exam	Russell Luepker	Assignment 3 Due
9A	11/9/15	Disease among HIV-infected persons and treatment trials	Frank Rhame	Lecture Notes Assignment 4
9B		Ebola		
10A & 10B	11/16/15	Periodontitis - Epidemiology/Pathogenesis	Mike John	Lecture Notes
		Periodontitis - Clinical Research in Periodontology	Mike John	Lecture Notes
11A	11/23/15	Periodontitis - Controversies in Clinical Research	Mike John	Lecture Notes
11B		Genetic Biomarkers in Cancer Treatment Selection	Mark Kirstein	Assignment 4 Due
12A & 12B	11/30/15	Drug Development	Mark Kirstein	Lecture Notes Readings 14-16 Assignment 5
13A	12/7/15	Peripheral Arterial Disease: Physiological Measurement	Diane Treat-Jacobson	Lecture Notes Assignment 6
13B		Peripheral Arterial Disease: Design and Implementation of Exercise Interventions	Diane Treat-Jacobson	Lecture Notes Assignment 5 Due

WEEK	DATE	TOPIC	SPEAKER	READINGS/ ASSIGNMENTS
14A	12/14/15	Careers in Industry	Kelly Hauptert Eric Kjellesvig	Lecture Notes
14B		Academic Opportunities	Russell Luepker	Lecture Notes Assignment 6 Due
15A & 15B	Date and Time TBA	Final Exam Location: TBA	Russell Luepker	

VII. Evaluation and Grading

Midterm: 20 points
 Final: 20 points
 Homework 1-6: 60 points (10 points each)
 Attendance (missing >5 - loss of 10 points; missing >3 - loss of 5 points)

Grading Criteria

The grading option for this course is A-F only. Grades will be assigned on the basis of total number of grade points earned as listed below.

Final grades will be assigned as follows:

100-93 A (4.0) Represents achievement that is outstanding relative to the level necessary to meet course requirements
 90-92 A-
 87-89 B+
 83-86 B (3.0) Represents achievement that is significantly above the level necessary to meet course requirements
 80-82 B-
 77-79 C+
 73-76 C (2.0) Represents achievement that meets the minimum course requirement
 70-72 C-

For additional information, please refer to:

<http://policy.umn.edu/Policies/Education/Education/GRADINGTRANSCRIPTS.html>.

Course Evaluation

The SPH will collect student course evaluations electronically using a software system called CourseEval: www.sph.umn.edu/courseval. The system will send email notifications to students when they can access and complete their course evaluations. Students who complete their course evaluations promptly will be able to access their final grades just as soon as the faculty member renders the grade in SPHGrades: www.sph.umn.edu/grades. All students will have access to their final grades through OneStop two weeks after the last day of the semester regardless of whether they completed their course evaluation or not. Student feedback on course content and faculty teaching skills are an important means for improving our work. Please take the time to complete a course evaluation for each of the courses for which you are registered.

Incomplete Contracts

A grade of incomplete "I" shall be assigned at the discretion of the instructor when, due to extraordinary circumstances (e.g., documented illness or hospitalization, death in family, etc.), the student was prevented from completing the work of the course on time. The assignment of an "I" requires that a contract be initiated and completed by the student before the last official day of class, and signed by both the student and instructor. If an incomplete is deemed appropriate by the instructor, the student in consultation with the instructor, will specify the time and manner in which the student will complete course requirements. Extension for completion of the work will not exceed one year (or earlier if designated by the student's college). For more information and to initiate an incomplete contract, students should go to SPHGrades at: www.sph.umn.edu/grades.

University of Minnesota Uniform Grading and Transcript Policy

A link to the policy can be found at onestop.umn.edu.

VIII. Other Course Information and Policies

Grade Option Change (if applicable):

For full-semester courses, students may change their grade option, if applicable, through the second week of the semester. Grade option change deadlines for other terms (i.e. summer and half-semester courses) can be found at onestop.umn.edu.

Course Withdrawal:

Students should refer to the Refund and Drop/Add Deadlines for the particular term at onestop.umn.edu for information and deadlines for withdrawing from a course. As a courtesy, students should notify their instructor and, if applicable, advisor of their intent to withdraw.

Students wishing to withdraw from a course after the noted final deadline for a particular term must contact the School of Public Health Office of Admissions and Student Resources at sph-ssc@umn.edu for further information.

Student Conduct Code:

The University seeks an environment that promotes academic achievement and integrity, that is protective of free inquiry, and that serves the educational mission of the University. Similarly, the University seeks a community that is free from violence, threats, and intimidation; that is respectful of the rights, opportunities, and welfare of students, faculty, staff, and guests of the University; and that does not threaten the physical or mental health or safety of members of the University community.

As a student at the University you are expected adhere to Board of Regents Policy: *Student Conduct Code*. To review the Student Conduct Code, please see:

http://regents.umn.edu/sites/default/files/policies/Student_Conduct_Code.pdf.

Note that the conduct code specifically addresses disruptive classroom conduct, which means "engaging in behavior that substantially or repeatedly interrupts either the instructor's ability to teach or student learning. The classroom extends to any setting where a student is engaged in work toward academic credit or satisfaction of program-based requirements or related activities."

Use of Personal Electronic Devices in the Classroom:

Using personal electronic devices in the classroom setting can hinder instruction and learning, not only for the student using the device but also for other students in the class. To this end, the University establishes the right of each faculty member to determine if and how personal electronic devices are allowed to be used in the classroom. For complete information, please reference:

<http://policy.umn.edu/Policies/Education/Education/STUDENTRESP.html>.

Scholastic Dishonesty:

You are expected to do your own academic work and cite sources as necessary. Failing to do so is scholastic dishonesty. Scholastic dishonesty means plagiarizing; cheating on assignments or examinations; engaging in unauthorized collaboration on academic work; taking, acquiring, or using test materials without faculty permission; submitting false or incomplete records of academic achievement; acting alone or in cooperation with another to falsify records or to obtain dishonestly grades, honors, awards, or professional endorsement; altering, forging, or misusing a University academic record; or fabricating or falsifying data, research procedures, or data analysis. (Student Conduct Code:

http://regents.umn.edu/sites/default/files/policies/Student_Conduct_Code.pdf) If it is determined that a student has cheated, he or she may be given an "F" or an "N" for the course, and may face additional sanctions from the University. For additional information, please see:

<http://policy.umn.edu/Policies/Education/Education/INSTRUCTORRESP.html>.

The Office for Student Conduct and Academic Integrity has compiled a useful list of Frequently Asked Questions pertaining to scholastic dishonesty: <http://www1.umn.edu/oscai/integrity/student/index.html>. If you have additional questions, please clarify with your instructor for the course. Your instructor can

respond to your specific questions regarding what would constitute scholastic dishonesty in the context of a particular class-e.g., whether collaboration on assignments is permitted, requirements and methods for citing sources, if electronic aids are permitted or prohibited during an exam.

Makeup Work for Legitimate Absences:

Students will not be penalized for absence during the semester due to unavoidable or legitimate circumstances. Such circumstances include verified illness, participation in intercollegiate athletic events, subpoenas, jury duty, military service, bereavement, and religious observances. Such circumstances do not include voting in local, state, or national elections. For complete information, please see: <http://policy.umn.edu/Policies/Education/Education/MAKEUPWORK.html>.

Appropriate Student Use of Class Notes and Course Materials:

Taking notes is a means of recording information but more importantly of personally absorbing and integrating the educational experience. However, broadly disseminating class notes beyond the classroom community or accepting compensation for taking and distributing classroom notes undermines instructor interests in their intellectual work product while not substantially furthering instructor and student interests in effective learning. Such actions violate shared norms and standards of the academic community. For additional information, please see:

<http://policy.umn.edu/Policies/Education/Education/STUDENTRESP.html>.

Sexual Harassment:

"Sexual harassment" means unwelcome sexual advances, requests for sexual favors, and/or other verbal or physical conduct of a sexual nature. Such conduct has the purpose or effect of unreasonably interfering with an individual's work or academic performance or creating an intimidating, hostile, or offensive working or academic environment in any University activity or program. Such behavior is not acceptable in the University setting. For additional information, please consult Board of Regents Policy:

<http://regents.umn.edu/sites/default/files/policies/SexHarassment.pdf>

Equity, Diversity, Equal Opportunity, and Affirmative Action:

The University will provide equal access to and opportunity in its programs and facilities, without regard to race, color, creed, religion, national origin, gender, age, marital status, disability, public assistance status, veteran status, sexual orientation, gender identity, or gender expression. For more information, please consult Board of Regents Policy:

http://regents.umn.edu/sites/default/files/policies/Equity_Diversity_EO_AA.pdf.

Disability Accommodations:

The University of Minnesota is committed to providing equitable access to learning opportunities for all students. The Disability Resource Center Student Services is the campus office that collaborates with students who have disabilities to provide and/or arrange reasonable accommodations.

If you have, or think you may have, a disability (e.g., mental health, attentional, learning, chronic health, sensory, or physical), please contact DRC at 612-626-1333 or drc@umn.edu to arrange a confidential discussion regarding equitable access and reasonable accommodations.

If you are registered with DS and have a current letter requesting reasonable accommodations, please contact your instructor as early in the semester as possible to discuss how the accommodations will be applied in the course.

For more information, please see the DS website, <https://diversity.umn.edu/disability/>.

Mental Health and Stress Management:

As a student you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, alcohol/drug problems, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may lead to diminished academic performance and may reduce your ability to participate in daily activities. University of Minnesota services are available to assist you. You can learn more about the broad range of confidential mental health services available on campus via the Student Mental Health Website: <http://www.mentalhealth.umn.edu>.

The Office of Student Affairs at the University of Minnesota:

The Office for Student Affairs provides services, programs, and facilities that advance student success, inspire students to make life-long positive contributions to society, promote an inclusive environment, and enrich the University of Minnesota community.

Units within the Office for Student Affairs include, the Aurora Center for Advocacy & Education, Boynton Health Service, Central Career Initiatives (CCE, CDes, CFANS), Leadership Education and Development –Undergraduate Programs (LEAD-UP), the Office for Fraternity and Sorority Life, the Office for Student Conduct and Academic Integrity, the Office for Student Engagement, the Parent Program, Recreational Sports, Student and Community Relations, the Student Conflict Resolution Center, the Student Parent HELP Center, Student Unions & Activities, University Counseling & Consulting Services, and University Student Legal Service.

For more information, please see the Office of Student Affairs at <http://www.osa.umn.edu/index.html>.

Academic Freedom and Responsibility: for courses that do not involve students in research:

Academic freedom is a cornerstone of the University. Within the scope and content of the course as defined by the instructor, it includes the freedom to discuss relevant matters in the classroom. Along with this freedom comes responsibility. Students are encouraged to develop the capacity for critical judgment and to engage in a sustained and independent search for truth. Students are free to take reasoned exception to the views offered in any course of study and to reserve judgment about matters of opinion, but they are responsible for learning the content of any course of study for which they are enrolled.*

Reports of concerns about academic freedom are taken seriously, and there are individuals and offices available for help. Contact the instructor, the Department Chair, your adviser, the associate dean of the college (Dr. Kristin Anderson, SPH Dean of Student Affairs), or the Vice Provost for Faculty and Academic Affairs in the Office of the Provost.

- *Language adapted from the American Association of University Professors "Joint Statement on Rights and Freedoms of Students".*

Student Academic Success Services (SASS): <http://www.sass.umn.edu>:

Students who wish to improve their academic performance may find assistance from Student Academic Support Services. While tutoring and advising are not offered, SASS provides resources such as individual consultations, workshops, and self-help materials.

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