EPIDEMIOLOGY (EPIDEMIOL)

EPIDEMIOL 140.02B Off-Campus Clerkship (1.5-6 Units) Fall, Winter, Spring, Summer
Instructor(s): George W Rutherford
Prerequisite(s): 4th Year student in good academic standing

Restrictions: None
Activities: Clinical

Clerkships in clinical epidemiology in off-campus settings.

School: Medicine
Department: Epidemiology And Biostatistics
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No
Repeat course for credit? No

EPIDEMIOL 140.07 Preventive Medicine & Public Health (6-12 Units) Fall, Winter, Spring, Summer
Instructor(s): George W Rutherford
Prerequisite(s): Fourth-year medical student standing.

Restrictions: None
Activities: Seminar, Clinical

This course is a practicum in public health and preventive medicine as practiced in state and local public health departments in the Bay Area. Activities include community-based disease control, surveillance, environmental health, health education, etc., and can be tailored to students’ interests.

School: Medicine
Department: Epidemiology And Biostatistics
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No
Repeat course for credit? No

EPIDEMIOL 140.08 Clerkship in Human and Veterinary Disease Ecology (6 Units) Fall, Winter, Spring, Summer
Instructor(s): George W Rutherford
Prerequisite(s): Fourth-year standing; EPIDEMIOL 140.02 or 140.07 or similar prior experience in public health practice.

Restrictions: Must show proof of current pre-exposure rabies vaccination and/or recent protective titer.

Activities: Fieldwork, Conference

Full-time course in infectious disease ecology based in the Veterinary Public Health and Vector-borne Diseases Sections of the California Department of Health Services. One medical student and one UCD veterinary student will conduct outbreak and field investigations, help to develop public health policy statements and review surveillance data regarding zoonotic and vector-borne diseases of public health significance in California.

School: Medicine
Department: Epidemiology And Biostatistics
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No
Repeat course for credit? No
**EPIDEMIOL 150.03 Designing Clinical Research (One Month) (2 Units) Fall, Summer**

*Instructor(s):* Alison J Huang  
*Prerequisite(s):* None.

**Restrictions:** Must be a student in Dentistry, Medicine, Nursing, Pharmacy, or a Resident at UCSF. This course is part of the Training in Clinical Research (TICR) Program and may have space limitations. Auditing is not permitted.

**Activities:** Lecture, Project, Discussion

This course guides residents and students through the essential components for writing a clinical research protocol, developed around their own clinical research question. Students attend lectures and small group seminars as well as a peer review session in the last week of the course. The course will cover research questions, hypotheses, specific aims, study types, sample size estimation, power calculations, and data analysis.

**School:** Graduate Division  
**Department:** Clinical Research Program

**May the student choose the instructor for this course?** No  
**Does enrollment in this course require instructor approval?** No  
**Course Grading Convention:** Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)

**Graduate Division course:** Yes  
**Is this a web-based online course?** No  
**Is this an Interprofessional Education (IPE) course?** No  
**May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course?** No  
**Repeat course for credit?** No

**EPIDEMIOL 180.08 Violence Prevention and Trauma-Informed Care (1 Units) Fall**

*Instructor(s):* Leigh S Kimberg  
*Prerequisite(s):* None.

**Restrictions:** None

**Activities:** Lecture

Introduction to violence causes, consequences and solutions. Emphasis on health professional's role in the clinic and community. Special consideration of domestic and sexual violence, child abuse, guns, gangs, media, drugs and alcohol, and the justice system.

**School:** Medicine  
**Department:** Epidemiology And Biostatistics

**May the student choose the instructor for this course?** No  
**Does enrollment in this course require instructor approval?** No  
**Course Grading Convention:** P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)

**Graduate Division course:** No  
**Is this a web-based online course?** No  
**Is this an Interprofessional Education (IPE) course?** No  
**May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course?** Yes  
**Repeat course for credit?** No

**EPIDEMIOL 198 Supervised Study (1-6 Units) Fall, Winter, Spring, Summer**

*Instructor(s):* Staff  
*Prerequisite(s):* Consent of instructor

**Restrictions:** None

Library research and directed reading under supervision of a member of the faculty.

**School:** Medicine  
**Department:** Epidemiology And Biostatistics

**May the student choose the instructor for this course?** Yes  
**Does enrollment in this course require instructor approval?** Yes  
**Course Grading Convention:** P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)

**Graduate Division course:** No  
**Is this a web-based online course?** No  
**Is this an Interprofessional Education (IPE) course?** No  
**May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course?** Yes  
**Repeat course for credit?** No

**EPIDEMIOL 201 Responsible Conduct of Research (0.5 Units) Summer**

*Instructor(s):* Sara L Ackerman  
*Prerequisite(s):* None.

**Restrictions:** None

**Activities:** Lecture

Instruction in identifying and resolving common ethical dilemmas that arise in clinical research, how research is regulated, and misconduct in research. This course meets the NIH requirement for training in research ethics.

**School:** Graduate Division  
**Department:** Clinical Research Program

**May the student choose the instructor for this course?** No  
**Does enrollment in this course require instructor approval?** No  
**Course Grading Convention:** P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)

**Graduate Division course:** Yes  
**Is this a web-based online course?** No  
**Is this an Interprofessional Education (IPE) course?** No  
**May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course?** Yes  
**Repeat course for credit?** No
EPIDEMIOL 202 Designing Clinical Research (Two Month) (2 Units) Summer

_Instructor(s):_ Mark J. Pletcher

_Prerequisite(s):_ Possession of a graduate or professional doctoral degree (MD, PhD, DDS, PharmD, or international equivalent), currently enrolled in an undergraduate, graduate, or professional school, or relevant work experience. An idea for a clinical research question that has been discussed with an experienced investigator. Proficiency with word processing software, biomedical literature searching, and reference management software. Exceptions to prerequisites may be made with Course Director consent.

_Restrictions:_ This course is part of the Training in Clinical Research (TICR) Program and may have space limitations. Auditing is not permitted.

_Activities:_ Lecture, Discussion

A workshop for students to design their own protocol for carrying out a clinical research project. Specific topics are: the research question, study designs, study subjects, measurements, sample size, ethical considerations, presets, data management, quality control, and proposal writing.

_School:_ Graduate Division

_Department:_ Clinical Research Program

_May the student choose the instructor for this course?_ No

_Do enrollment in this course require instructor approval?_ No

_Course Grading Convention:_ Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)

_Graduate Division course:_ Yes

_Is this a web-based online course?_ No

_Is this an Interprofessional Education (IPE) course?_ No

_May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course?_ Yes

_Repeat course for credit?_ Yes

EPIDEMIOL 203 Epidemiologic Methods (4 Units) Fall

_Instructor(s):_ Jeffrey N. Martin

_Prerequisite(s):_ Possession of a graduate or professional doctoral degree (MD, PhD, DDS, PharmD or international equivalent) or currently enrolled in an undergraduate, graduate or professional school. Exceptions to these prerequisites may be made with the consent of the Course Director, space permitting.

_Restrictions:_ This course is part of the Training in Clinical Research (TICR) Program and may have space limitations. Auditing is not permitted.

_Activities:_ Lecture, Discussion

Instruction in the diverse array of study designs, and their theoretical interrelatedness, available in clinical and epidemiologic research; importance of measurement; different types of measures of disease occurrence; methods to measure exposure - disease association; measures of attributable risk; effect-measure modification; approaches to identify and minimize selection, measurement and confounding bias; and conceptual motivation for more sophisticated methods (e.g., regression)

_School:_ Graduate Division

_Department:_ Clinical Research Program

_May the student choose the instructor for this course?_ No

_Do enrollment in this course require instructor approval?_ No

_Course Grading Convention:_ Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)

_Graduate Division course:_ Yes

_Is this a web-based online course?_ No

_Is this an Interprofessional Education (IPE) course?_ No

_May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course?_ Yes

_Repeat course for credit?_ No

EPIDEMIOL 204 Clinical Epidemiology (3 Units) Fall

_Instructor(s):_ Michael A Kohn

_Prerequisite(s):_ Epidemiology 202

_Restrictions:_ This course is part of the Training in Clinical Research (TICR) Program and may have space limitations. Auditing is not permitted

_Activities:_ Lecture

Instruction in the characterization and design of measurements commonly used in clinical medicine, including diagnostic tests, screening tests and prognostic tests.

_School:_ Graduate Division

_Department:_ Clinical Research Program

_May the student choose the instructor for this course?_ No

_Do enrollment in this course require instructor approval?_ No

_Course Grading Convention:_ Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)

_Graduate Division course:_ Yes

_Is this a web-based online course?_ No

_Is this an Interprofessional Education (IPE) course?_ No

_May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course?_ Yes

_Repeat course for credit?_ No
EPIDEMIOL 205 Clinical Trials (2 Units) Winter
Instructor(s): Dennis Black
Prerequisite(s): Possession of MD, PhD, DDs or PharmD degree or permission of course director and Epidemiology 180.04.

Restrictions: This course is part of the Training in Clinical Research (TICR) Program and may have space limitations. Auditing is not permitted.

Activities: Lecture, Discussion

Instruction in experimental design options in clinical research; methods of randomization; blinding: interventions and controls; measuring outcomes and adverse effects; follow-up, compliance and post-randomization problems; ethical issues; and working with pharmaceutical companies.

School: Graduate Division
Department: Clinical Research Program
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: Yes
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes
Repeat course for credit? No

EPIDEMIOL 207 Epidemiologic Methods II (3 Units) Winter
Instructor(s): June M Chan, Rebecca E Graff
Prerequisite(s): TICR course Epi 203 Epidemiological Methods I
TICR course Epi 202 Designing Clinical Research OR by consent of the Instructor

Restrictions: This course is part of the Training in Clinical Research (TICR) Program and may have space limitations. Auditing is not permitted.

Activities: Lecture

This course is designed to provide doctoral students in Epidemiology with advanced training in the theory and practice of epidemiology. It focuses on integrating study design methods with advanced statistical analyses. The lectures focus on practical and theoretical considerations of the observational study designs. The small group discussion meetings will cover more advanced analytic techniques, including regression model building and diagnostics.

School: Graduate Division
Department: Clinical Research Program
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: Yes
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes
Repeat course for credit? Yes

EPIDEMIOL 210 Epidemiology of Aging (2 Units) Winter
Instructor(s): Jacqueline M Torres
Prerequisite(s): none

Restrictions: This course is appropriate for any graduate student, fellow or post doc in a health or social sciences discipline who is interested in the topic.

Activities: Lecture, Project

This course will provide an overview of issues and methods for the study of the epidemiology of aging with a focus on common chronic diseases in older populations. Students will learn how epidemiologic methods can be applied to aging populations with emphasis on translational applications. Researchers in a topic will present their work. A combination of lectures and seminar formats will be used. Students will complete a 10 page paper, present their work in class and participate in discussion.

School: Graduate Division
Department: Clinical Research Program
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: Yes
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes
Repeat course for credit? No

EPIDEMIOL 212 Publishing and Presenting Clinical Research (1 Units) Spring
Instructor(s): Vinayak K Prasad
Prerequisite(s): EPIDEMIOL 202. Exceptions may be made with the consent of the course director, space permitting.

Restrictions: Course restricted to students in the Advanced Training in Clinical Research Certificate and MAS degree programs. Auditing is not permitted.

Activities: Lecture

This course will provide instruction in preparing manuscripts for publication in the medical literature including how to prepare title and abstract; introduction and methods; results and discussion.

School: Graduate Division
Department: Clinical Research Program
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: Yes
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes
Repeat course for credit? No
EPIDEMIOL 213 Decision & Economic Analysis (2-3 Units) Winter
Instructor(s): Elliot Marseille, Tracy K Lin
Prerequisite(s): Possession of MD, PhD, DDS or PharmD degree or permission of course director and Epidemiology 180.04.

Restrictions: This course is part of the Training in Clinical Research (TICR) Program and may have space limitations. Auditing is not permitted.

Activities: Lecture, Project

This course builds from basic portrayal of decision problems, to more inclusive and sophisticated methods. Section activities parallel the lectures; assignments include both programmed exercises on current topics and development of student's own decision analysis and cost effectiveness analysis.

School: Graduate Division
Department: Clinical Research Program
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: Yes
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes
Repeat course for credit? No

EPIDEMIOL 214 Systematic Reviews (1 Units) Spring
Instructor(s): Mohsen Malekinejad
Prerequisite(s): Possession of MD, PhD, DDS or PharmD degree or permission of course director and Epidemiology 202.

Restrictions: This course is part of the Training in Clinical Research (TICR) Program and may have space limitations. Auditing is not permitted.

Activities: Lecture

Instruction in systematic detection and summarization of primary research studies.

School: Graduate Division
Department: Clinical Research Program
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: Yes
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes
Repeat course for credit? No

EPIDEMIOL 217 Molecular & Genetics Epidemiology I (2 Units) Winter
Instructor(s): Thomas J. Hoffmann
Prerequisite(s): Epi 180.04 & possession of MD, PhD, DDS or PharmD or equivalent degree. Exceptions to these prerequisites may be made with the consent of the course director, space permitting.

Restrictions: This course is part of the Training in Clinical Research (TICR) Program and may have space limitations. Auditing is not permitted.

Activities: Lecture

This course introduces the concepts, principles, & use of molecular and genetic methods in epidemiologic and clinical research. Students will develop a framework for interpreting, assessing & incorporating such measures in their area of research. In particular, students will learn about: common molecular measures available; including such measures into clinical research; and interactions between genes & other exposures.

School: Graduate Division
Department: Clinical Research Program
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: Yes
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No
Repeat course for credit? No

EPIDEMIOL 218 Data Management for Clinical Research (1 Units) Summer
Instructor(s): Michael A Kohn
Prerequisite(s): Possession of MD, PhD, DDS or PharmD degree or permission of course director and Epidemiology 180.04.

Restrictions: This course is part of the Training in Clinical Research (TICR) Program and may have space limitations. Auditing is not permitted.

Activities: Lecture, Laboratory, Project

Instruction in choosing the appropriate data management system, design of research data bases, options in data entry, form and report generation, computer security, and budgeting for data management personnel and equipment.

School: Graduate Division
Department: Clinical Research Program
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: Yes
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes
Repeat course for credit? Yes
EPIDEMIOL 220  Master's Seminar I  (1 Units)  Fall, Winter, Spring  
Instructor(s): Lydia B. Zablotska  
Prerequisite(s): Possession of MD, PhD, DDS or PharmD degree or permission of course director and Epidemiology 180.04.

Restrictions: This course is restricted to those enrolled in the Master's degree program in Clinical Research.

Activities: Seminar

This series of seminars, beginning in fall and spread over three terms, provides a forum for presenting scholar's projects and for evaluating controversies in clinical research.

School: Graduate Division  
Department: Clinical Research Program  
May the student choose the instructor for this course?  No  
Does enrollment in this course require instructor approval?  No  
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)  
Graduate Division course:  Yes  
Is this a web-based online course?  No  
Is this an Interprofessional Education (IPE) course?  No  
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course?  Yes  
Repeat course for credit?  Yes

EPIDEMIOL 221  Master's Seminar II  (1 Units)  Fall, Winter, Spring  
Instructor(s): Jeffrey N. Martin, Thomas B. Newman, Michael A Kohn  
Prerequisite(s): Possession of MD, PhD, DDS or PharmD degree or permission of course director and Epidemiology 180.04, 220.

Restrictions: This course is restricted to those enrolled in the Master's degree program in Clinical Research.

Activities: Seminar

These seminars provide a forum for presenting scholar's projects, and for evaluating controversies in clinical research.

School: Graduate Division  
Department: Clinical Research Program  
May the student choose the instructor for this course?  No  
Does enrollment in this course require instructor approval?  No  
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)  
Graduate Division course:  Yes  
Is this a web-based online course?  No  
Is this an Interprofessional Education (IPE) course?  No  
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course?  Yes  
Repeat course for credit?  Yes

EPIDEMIOL 222  Social Determinants of Health and Health Disparities  (1-2 Units)  Winter  
Instructor(s): Christine E Dehlendorf  
Prerequisite(s): EPIDEMIOL 202. Exceptions may be made with the consent of the Course Director, space permitting.

Restrictions: This course is part of the Training in Clinical Research (TICR) Program and may have space limitations. Auditing is not permitted.

Activities: Lecture

The 1 unit course will consist of the first five lectures, covering conceptual and methodological material relevant to many researcher doing work with diverse populations, including multilevel determinants of health and measurement of race/ethnicity and socioeconomic status. The 2 unit course will include the first five lectures, and an additional five lectures over 5 weeks covering more advanced material related to the conduct of health disparities research for those specifically interested in doing work with diverse populations, including multilevel determinants of health and measurement of race/ethnicity and socioeconomic status.

School: Graduate Division  
Department: Clinical Research Program  
May the student choose the instructor for this course?  No  
Does enrollment in this course require instructor approval?  No  
Course Grading Convention: Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)  
Graduate Division course:  Yes  
Is this a web-based online course?  No  
Is this an Interprofessional Education (IPE) course?  No  
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course?  Yes  
Repeat course for credit?  No

EPIDEMIOL 226  Informatics Tools for Health Disparities Research  (2 Units)  Winter  
Instructor(s): William Brown  
Prerequisite(s): Students without coding knowledge will be guided to UCSF library learning resources.

Restrictions: None

Activities: Lecture

This course is for learners interested in accessing data sources and using informatics tools that are helpful in identifying cohorts, developing research questions, and conducting health disparities research. Topics will include finding, managing, manipulating, mining, and analyzing a variety of data types. Lectures will cover informatics research projects that address health disparities. Learners will gain access to tools and data sources, and there will be hands-on activities.

School: Graduate Division  
Department: Epidemiology And Translational Sciences Program  
May the student choose the instructor for this course?  No  
Does enrollment in this course require instructor approval?  No  
Course Grading Convention: Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)  
Graduate Division course:  Yes  
Is this a web-based online course?  No  
Is this an Interprofessional Education (IPE) course?  No  
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course?  Yes  
Repeat course for credit?  No
EPIDEMIOL 230 ATCR Seminar (1 Units) Fall, Winter, Spring
Instructor(s): Lydia B. Zablotska
Prerequisite(s): Possession of MD, PhD, DDS or PharmD degree or permission of course director and Epidemiology 180.04.


Activities: Seminar

Trainees enrolled in the ATCR program present and critique each others' clinical research projects on an on-going basis throughout the year.

School: Graduate Division
Department: Clinical Research Program

May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)

Graduate Division course: Yes
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No
Repeat course for credit? No

EPIDEMIOL 231 Use of Electronic Health Records Data for Clinical Research (3 Units) Spring
Instructor(s): Anobell Y. Odisho, Mark J. Fletcher
Prerequisite(s): Epi 218 or equivalent Biostat 212 or equivalent

Restrictions: None

Activities: Lecture, Lab skills

This course introduces students to concepts, methods, and pitfalls related to the extraction and analysis of data from the Electronic Health Record. The course covers common EHR data structures and vocabularies, using that knowledge to inform clinical study design, and creation of patient cohorts and analytic extracts. We will evaluate both ambulatory and inpatient use cases. The course will pair lectures with labs to allow application of lecture material.

School: Graduate Division
Department: Clinical Research Program

May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)

Graduate Division course: Yes
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes
Repeat course for credit? No

EPIDEMIOL 241 Designs for Intervention Research in Real-World Settings (2 Units) Spring
Instructor(s): Margaret A. Handley, Starley B Shade
Prerequisite(s): Familiarity with conventional individual-level study design (e.g., observational and experimental designs).

Restrictions: This course is part of the UCSF Implementation Science Training Program and the Training in Clinical Research (TICR) Program. It may have space limitations. Auditing is not permitted. In addition, enrollment is not permitted if cross-listed course IMS 24_ or IMS 24_A (online version) has been taken and passed.

Activities: Lecture

Instruction in the design of studies that are alternatives to individual participant-level randomization for the evaluation of interventions in real-world settings. Both randomized (e.g., cluster-randomized and stepped-wedge randomized trials) and quasi-experimental design (e.g., pre-post and interrupted time series) will be discussed.

School: Graduate Division
Department: Clinical Research Program

May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)

Graduate Division course: Yes
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes
Repeat course for credit? No

EPIDEMIOL 242 Program Evaluation in Clinical and Public Health Settings (2 Units) Winter
Instructor(s): Janet Myers
Prerequisite(s): None

Restrictions: Enrollment is not permitted if the cross-listed course IMS 242 or IMS 242A have been taken and passed.

Activities: Lecture, Project

This course provides training in evaluating a health program or strategy implemented in a clinical or public health setting. Scholars will develop an evaluation plan that uses logic models and evaluation frameworks (e.g., RE-AIM) to guide the systematic collection of information to understand if and how a program/implementation strategy is meeting its stated goals and objectives; improve program/implementation strategy effectiveness; and/or make decisions about future programming.

School: Graduate Division
Department: Epidemiology And Translational Sciences Program

May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)

Graduate Division course: Yes
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes
Repeat course for credit? No
EPIDEMIOL 243 Human Centered Design (2 Units) Fall
Instructor(s): Courtney R Lyles
Prerequisite(s): Training or experience in public health, quality improvement, or health care organization leadership. Exceptions for these prerequisites may be made with the consent of the course director.
Restrictions: Enrollment is not permitted if the cross-listed course IMS 243 or EPI 243 have been taken and passed.
Activities: Lecture
Human-centered design is a discipline incorporating the human needs perspective to solve problems in public health and medicine. As an introduction to the practice, learners will follow a service design process applying methods focused on building empathy, translating needs into solution requirements, creative ideation, prototype development and testing, and planning for implementation. Broad implementation science principles and approaches will be overlaid to show intersection points.

School: Graduate Division
Department: Epidemiology And Translational Sciences Program
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: Yes
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes
Repeat course for credit? No

EPIDEMIOL 245 Introduction to Implementation Science: Theory and Design (2 Units) Fall
Instructor(s): Adithya Cattamanchi, Priya B Shete
Prerequisite(s): Training or experience in clinical research, public health, quality improvement or health care organization leadership. Exceptions for these prerequisites may be made with the consent of the course director.
Restrictions: The course cannot be repeated for credit - students who take and pass IMS 245 or the online version of the course, IMS 245A, are not permitted to take this course.
Activities: Web work
This course provides a foundation for designing and evaluating strategies to accelerate the translation of evidence into practice, policy, and public health. Concepts introduced include community engagement, behavior change theory, and implementation strategy design and evaluation frameworks, and study design. In addition to didactic work, scholars are guided through the creation of a protocol aimed towards facilitating uptake of their chosen health intervention. Cross-listed as IMS 245.

School: Graduate Division
Department: Epidemiology And Translational Sciences Program
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: Yes
Is this a web-based online course? Yes
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes
Repeat course for credit? No
EPIDEMIOL 246 Designing Individual-Level Implementation Strategies (2 Units) Winter
Instructor(s): Matthew A Spinelli, Emilia H Demarchis
Prerequisite(s): Training or experience in clinical research, public health, quality improvement or health care organization leadership. Exceptions for these prerequisites may be made with the consent of the course director.

Restrictions: The course cannot be repeated for credit - students who take and pass Implementation Science (IMS) 246 are not permitted to take this course.

Activities: Web work

Provides training in developing interventions targeting individual health behavior change, while focusing on intervention design components that target multiple determinants: individual, interpersonal and system/community/structural level. Students use principles of behavior change theories and implementation frameworks applied to their work to solidify course concepts. Additional assignments involve case studies analysis and online discussions with other students. Cross-listed with IMS 246.

School: Graduate Division
Department: Clinical Research Program
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: Yes
Is this a web-based online course? Yes
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes
Repeat course for credit? No

EPIDEMIOL 247 Designing Interventions to Change Organizational Behavior (2 Units) Spring
Instructor(s): Laura A Schmidt
Prerequisite(s): Experience working/volunteering within an organization. Ideally, this will be a healthcare organization you work in now or if not, then in the past.

Restrictions: This course is part of the UCSF Implementation Science Training Program and the Training in Clinical Research (TICR) Program. It may have space limitations. Auditing is not permitted. In addition, enrollment is not permitted if cross-listed course IMS 24X or IMS 24XA (online version) has been taken and passed.

Activities: Lecture, Project

This course surveys a range of translational tools at the health care system level that you can use to promote the adoption of evidence-based medicine by providers and delivery systems. Learn strategies for change in the broader context of sociological theories of organizational behavior and policy implementation. Focus your learning on translational tools that can be used by stakeholders outside of health care organizations to promote the adoption of clinical innovations within organizations.

School: Graduate Division
Department: Clinical Research Program
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: Yes
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes
Repeat course for credit? No
EPIDEMIOL 248 Community-Engaged Research (2 Units) Fall
Instructor(s): Sara L Ackerman
Prerequisite(s): Training or experience in public health, quality improvement or health care organization leadership. Exceptions for these prerequisites may be made with the consent of the course director.

Restrictions: Intended for students in the MAS or ATCR programs. Space permitting, individuals not enrolled in MAS/ATCR may take this course. Enrollment is not permitted if cross-listed course IMS 248 (online version) has been taken and passed.

Activities: Web work

This course provides training in the theory and practice of collaborating with patients, members of the public, and community-based organizations in health research, intervention design and implementation. Multiple engagement strategies are introduced through readings, guest speakers, case studies, and online discussions. Participatory research methods will be applied to trainees’ ongoing or planned projects in order to adapt health interventions to real-world contexts. Cross-listed as IMS 248.

School: Graduate Division
Department: Epidemiology And Translational Sciences Program
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: Yes
Is this a web-based online course? Yes
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes
Repeat course for credit? No

EPIDEMIOL 249 Translating Evidence Into Policy (2 Units) Spring
Instructor(s): Brooke Hollister, Ari B Hoffman, Elizabeth P Griffiths
Prerequisite(s): The course is focused on domestic (US) health policy and requires a basic understanding of government organizational structures (executive, legislative and judicial branches).

Restrictions: This course is part of the UCSF Implementation Science Training Program and the Training in Clinical Research (TICR) Program. It may have space limitations. Auditing is not permitted. In addition, enrollment is not permitted if cross-listed course IMS 249 or IMS 249A (online version) has been taken and passed.

Activities: Lecture, Project

This course will focus on the policy process and strategies for collecting and disseminating research findings to inform and influence that process. The course will be taught through a series of videos and guided readings delivered by faculty with extensive experience at the federal, state, and local level in health care policy.

School: Graduate Division
Department: Clinical Research Program
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: Yes
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes
Repeat course for credit? No
EPIDEMIOL 252A  Cancer Epidemiology (2 Units) Winter
Instructor(s): Robert A. Hiatt, John S Witte, Lydia B. Zablotska, George F. Sawaya, Thea D. Tlsty, Erin Van Blarigan, Scarlett L. Gomez, Karla M. Kerlikowske
Prerequisite(s): EPI 203 (Epidemiologic Methods I) or equivalent
Restrictions: None.
Activities: Seminar
This course is intended for students who already have acquired, or concurrently are acquiring a basic understanding of the principles and methods of epidemiology, and who now wish to apply this knowledge to the study of the epidemiology of neoplastic diseases. Enrollment will be limited to 15 students. This is a 2 part course beginning with EPI 252A, followed by EPI 252B. Students are also encouraged to take EPI 217 or Berkeley 256 Genetic Epidemiology (or have equivalent background).

School: Graduate Division
Department: Epidemiology And Translational Sciences Program
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory), In Progress (IR SP/UP) grading allowed
Graduate Division course: Yes
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes
Repeat course for credit? No

EPIDEMIOL 252B  Cancer Epidemiology (1 Units) Spring
Instructor(s): Robert A. Hiatt, George F. Sawaya, Thea D. Tlsty, Lydia B. Zablotska, John S Witte, Karla M Kerlikowske, Scarlett L. Gomez, Erin Van Blarigan
Prerequisite(s): EPI 252A
Restrictions: Student must have been enrolled EPI 252A
Activities: Seminar
This course is intended for students who already have acquired, or concurrently are acquiring a basic understanding of the principles and methods of epidemiology, and who now wish to apply this knowledge to the study of the epidemiology of neoplastic diseases. Enrollment will be limited to 15 students. This is a 2 part course beginning with EPI 252A, followed by EPI 252B. Students are also encouraged to take EPI 217 or Berkeley 256 Genetic Epidemiology (or have equivalent background).

School: Graduate Division
Department: Epidemiology And Translational Sciences Program
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: Yes
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes
Repeat course for credit? No

EPIDEMIOL 253  Methods in Infectious Disease Epidemiology (2-3 Units) Spring
Instructor(s): Ali Mirzazadeh, George W Rutherford
Prerequisite(s): Students will need to have an understanding of basic epidemiological and statistical methods as covered in Epi203 (Epidemiologic Methods I) and Bio200 (Biostatistical Methods for Clinical Research I). Familiarity with an analysis software package is non-essential but encouraged in particular in those who choose “analysis data of an infectious disease” as their project.
Restrictions: None
Activities: Lecture, Seminar, Project
This course will focus on the epidemiological methods used in infectious disease, and strategies for their control or elimination. The faculty-facilitated seminars will focus on key readings in the field and will be led by students. The course covers concepts and methods to assess transmissions, pharmaceutical and non-pharmaceutical control measures, outbreak investigation, and one health approach to fight health issues at the human-animal-environment interface, including zoonotic diseases.

School: Graduate Division
Department: Epidemiology And Translational Sciences Program
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: Yes
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes
Repeat course for credit? No
EPIDEMIOL 258  Grant Writing Workshop (3 Units) Winter
Instructor(s): Erin Van Blarigan
Prerequisite(s): None

Restrictions: This course is designed for doctoral level students or higher. A brief application will be available at the course web site.

Activities: Lecture, Independent Study

This course is designed to provide doctoral students and fellows with training on the preparation of an NIH grant application in a structured environment. The course will cover funding mechanisms, NIH submission and review procedures, charting out a timeline for writing and assembling all grant components, and writing each component of the grant application.

School: Graduate Division
Department: Epidemiology And Translational Sciences Program
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? Yes
Course Grading Convention: Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: Yes
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes
Repeat course for credit? Yes

EPIDEMIOL 263  Demographic Methods for Health (1.5 Units) Fall
Instructor(s): Nadia G Diamond-Smith
Prerequisite(s): None

Restrictions: None

Activities: Lecture

This course will cover basic demographic theory and methods, including population dynamics, fertility, mortality, migration, urbanization, aging, and family structure. The emphasis will be on how and why understanding these factors is important for public health practitioners. This will be accomplished through case studies on public health topics and how understanding certain demographic phenomenon is essential for understanding the disease burden.

School: Graduate Division
Department: Epidemiology And Translational Sciences Program
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: Yes
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes
Repeat course for credit? No

EPIDEMIOL 265  Research Methods in Chronic Disease Epidemiology (2-3 Units) Spring
Instructor(s): Maria Glymour
Prerequisite(s): EPIDEMIOL 203/BIOSTAT 200

Restrictions: This course assumes a basic foundation in epidemiology and quantitative research methods. Concurrent enrollment or previous completion of a regression course is strongly recommended.

Activities: Lecture, Project

This course will focus on clearly articulating and testing research hypotheses related to the determinants and consequences of chronic conditions. Each session will introduce specific methodological concepts for epidemiologic studies, organized around an illustrative applied research paper. The course will emphasize causal inference from observational data. Most examples will be drawn from literature on social and lifecourse determinants of dementia, stroke, and cardiometabolic disease.

School: Graduate Division
Department: Epidemiology And Translational Sciences Program
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: Yes
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes
Repeat course for credit? No
EPIDEMIOL 267 Qualitative and Mixed Methods Research (2 Units) Winter
Instructor(s): Sara L Ackerman, Kimberly A Koester
Prerequisite(s): Training or experience in public health, epidemiology, clinical research, quality improvement or health care organization leadership. Exceptions for these prerequisites may be made with the consent of the course director.

Restrictions: Intended for students in the MAS or ATCR programs. Space permitting, individuals not enrolled in MAS/ATCR may take this course. Enrollment is not permitted if IMS 250 (online version) has been taken and passed.

Activities: Seminar, Project

This course provides training in the use of qualitative and mixed methods in clinical, health services and implementation research. Through readings, lectures, case studies, and online discussions, students will gain basic skills in conducting interviews, focus groups, and observations, qualitative and mixed methods data analysis, and innovative approaches such as rapid ethnography and joint display of qualitative and quantitative findings.

School: Graduate Division
Department: Epidemiology And Translational Sciences Program

EPIDEMIOL 268 Econometric Methods for Causal Inference (2-3 Units) Spring
Instructor(s): Justin S White
Prerequisite(s): Biostat 200, Biostat 208, Epi 203, or equivalent experience. Experience with Stata. Open to students from any department or program.

Restrictions: None

Activities: Lecture

Epidemiologists and clinical researchers are increasingly seeking to estimate the causal effects of health-related policies, programs, and interventions. Economists have long had similar interests, and have developed and refined methods to estimate causal relationships. Examples include difference-in-differences, instrumental variables, and regression discontinuity. This course introduces this set of econometric tools and research designs in the context of health-related questions.

School: Graduate Division
Department: Epidemiology And Translational Sciences Program

EPIDEMIOL 270 Doctoral Seminar in Epidemiology and Translational Science (1 Units) Fall, Winter, Spring
Instructor(s): Pamela M Murnane, Dave Glidden, Maria Glymour
Prerequisite(s): None

Restrictions: This seminar is only offered to graduate students in Epidemiology and Translational Science.

Activities: Seminar

This seminar is for doctoral students enrolled in the PhD Program in Epidemiology and Translational Science. The seminar is a forum for instruction and discussion of scholarly topics related to advanced study of epidemiology and its applications as well as works in progress by the graduate students.

School: Graduate Division
Department: Epidemiology And Translational Sciences Program

Repeat course for credit? No
EPIDEMIOL 296  Independent Study in Epidemiology and Translational Science  (1-4 Units)  Fall, Winter, Spring, Summer

Instructor(s): Staff
Prerequisite(s): EPI 203 - Epidemiologic Methods
EPI 207 - Epidemiologic Methods II
Biostat 200 - Biostatistical Methods
Biostat 208 - Biostatistical Methods II
Biostat 209 - Biostatistical Methods III

Restrictions: Prerequisites or equivalent training approved by the instructor is required.

Activities: Independent Study

Independent Study in Epidemiology and Translational Science provides opportunities for pre-doctoral students to work with individual faculty on topics tailored to the special interest of the student with individualized readings, learning materials and experiential learning.

School: Graduate Division
Department: Epidemiology And Translational Sciences Program

May the student choose the instructor for this course? Yes
Does enrollment in this course require instructor approval? Yes
Course Grading Convention: Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: Yes
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes
Repeat course for credit? No

EPIDEMIOL 297  Research Rotation in Epidemiology & Translational Science  (1-4 Units)  Fall, Winter, Spring

Instructor(s): Maria Glymour, Dave Glidden
Prerequisite(s): EPI 203 - Epidemiologic Methods
Epidemiologic Methods II
Biostat 200 - Biostatistical Methods
Biostat 208 - Biostatistical Methods II
Biostat 209 - Biostatistical Methods III

Restrictions: Prerequisites or equivalent training approved by the instructor are required.

Activities: Project

Two Research (Team) Rotations of one quarter each are required for the PhD degree in Epidemiology and Translational Science. The purpose is to expose the student to every day working environments for epidemiologists to expand their view of the scope of the discipline. The content of a Rotation can be primarily analytic working with an existing dataset or nonanalytic working on the development and implementation of a research project.

School: Graduate Division
Department: Epidemiology And Translational Sciences Program

May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? Yes
Course Grading Convention: Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: Yes
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes
Repeat course for credit? No

EPIDEMIOL 299  MAS Dissertation Requirements Only  (0 Units)  Fall, Winter, Spring, Summer

Instructor(s): Alexis L Beatty, Elaine Y Ku
Prerequisite(s): Advancement to candidacy in the MAS in Clinical Research program and the permission of the graduate program advisor.

Restrictions: For students in the MAS in Clinical Research program only.

For graduate students in the MAS in Clinical Research Program who have successfully completed all required coursework and are in the process of writing their three products required for graduation.

School: Graduate Division
Department: Clinical Research Program

May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: Yes
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No
Repeat course for credit? No
EPIDEMIOL 299D Dissertation Research (8 Units) Fall, Winter, Spring, Summer

Instructor(s): Maria Glymour

Prerequisite(s): Must have passed PhD Qualifying Examination

Restrictions: Must have passed PhD Qualifying Examination

Activities: Project

EPI 299D Dissertation Research is required of students working on their dissertations following passing their qualifying examinations. The subject matter depends on the topic of the dissertation.

School: Graduate Division

Department: Epidemiology And Translational Sciences Program

May the student choose the instructor for this course? No

Does enrollment in this course require instructor approval? Yes

Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/ Unsatisfactory)

Graduate Division course: Yes

Is this a web-based online course? No

Is this an Interprofessional Education (IPE) course? No

May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? Yes

Repeat course for credit? No