In order to develop better outcomes while containing costs, physicians, nurses and other health care professionals need evidence of the effectiveness of various treatment regimens and related health care decisions. Comparative Effectiveness Research and Evidence Based Medicine is a rapidly growing field whose objective is to assess how various medical interventions result in improved health care outcomes. This work also provides a framework for healthcare professionals that yields more efficient medical decisions, reduces costs, and guides long term policy.

Randomized controlled trials (RCTs) are currently used to determine the efficacy of a drug, device or treatment protocol under ideal conditions. The goal of Comparative Effectiveness Research and Evidence Based Medicine is to assess an array of treatment options to determine what works best for specific patient groups (e.g. the elderly, racial and ethnic minorities) in clinical situations.

Participants in this program acquire foundational skills and techniques that facilitate critical appraisal of existing multidisciplinary research literature, identify gaps, and then synthesize and evaluate more effective interventions.

Courses within this certificate program carry full graduate course credit at University of California, Irvine’s School of Medicine and most can be directly applied to the school’s MS degree in Biomedical and Translational Sciences (MS-BATS) with departmental approval. Enrollment in these courses is managed via ACCESS UCI through UCI Division of Continuing Education.
WHO SHOULD ENROLL
This certificate is ideal for practicing physicians, junior faculty in clinical departments, residents, fellows, 4th year medical students, and others who are interested in the conduct, interpretation and implementation of comparative effectiveness and evidence-based research to improve health care outcomes and the efficiency of medical care.

PROGRAM BENEFITS
• Define and conduct new studies that generate evidence to support outcomes-based evaluation of treatment regimens
• Utilize medical statistics, data analysis, data repositories, linear regressions, survival analysis, meta-analysis, and instrumental variable techniques to access effectiveness of medical interventions
• Develop the skills required to lead multidisciplinary research teams
• Develop competency in study design, reflecting the breadth and complexity of comparative effectiveness
• Identify gaps between research and current clinical practices

CERTIFICATE ELIGIBILITY AND REQUIREMENTS
A Certificate is awarded upon completion of the 4 required courses, 16 units (160 hours), with a grade of “B” or higher in each course. Students may enter the program at any time, however Introduction to Clinical Medical Statistics or the equivalent is a prerequisite for Comparative Effectiveness Research I & II and Measurement Science, Outcomes Research & Advanced Methods. All requirements must be completed within 5 years after the student enrolls in his/her first course. Students not pursuing a certificate are welcome to take as many individual courses as they wish.

PROGRAM FEES
Actual fees may differ from the estimate below. Fees are subject to change without prior notice.
Course Fees (4 required units) $6,020
Candidacy Fee $125
Textbook Fees $600
Total Estimated Cost $6,745

TO ENROLL
Visit ce.uci.edu/cer for full course descriptions, instructor biographies, and to enroll.

FOR MORE INFORMATION:
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COURSE# REQUIRED COURSES
BATS 245A Comparative Effectiveness Research I 4
BATS 247 Measurement Science, Outcomes Research & Advanced Applied Methods 4
BATS 253 Disparities in Health and Healthcare 4
BATS 251 Quality, Efficiency, and Cost-Effectiveness 4

ADVISORY COMMITTEE
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