Advanced Topics in Implementation Science:
Winter 2019

Course description and objectives

This course will explore advanced topics in implementation science using a seminar format; each session will begin with a brief presentation of focal topic content followed by critical thinking and dialogue. Throughout the course, faculty and participants will bring case studies and illustrations from the literature to illustrate key concepts and challenges in the conceptualization and implementation of studies using these advanced methods.

The course seeks to develop and strengthen participants’ capacity to:

- Understand select advanced methods in implementation science
- Identify and anticipate challenges in using advanced approaches in implementation science
- Design and apply potential strategies for mitigating challenges

Faculty:

Steven L. Bernstein, MD, 203-737-3574, steven.bernstein@yale.edu
Leslie Curry, PhD, MPH, 203-214-3539, leslie.curry@yale.edu

YSIS Staff:

June Weiss, MA, MEd, 203-737-3582, june.weiss@yale.edu (Director, Yale Center for Implementation Science)
Ann Criscuolo, 203-785-4363, ann.criscuolo@yale.edu (Administrative Assistant)

Time/location:

Selected Tuesdays 12-1: February to May 2019 (2/5, 2/19, 3/5, 3/19, 4/2, 4/16, 4/30, 5/21 {note schedule change from 5/14}); Sessions held in Tompkins 318. Feel free to bring lunch.

Readings:

All readings available on https://campuspress.yale.edu/ysisadvtopics/
Brownson 2017 Dissemination and Implementation Research in Health by Oxford Press is strongly recommended.

Requirements:

1. Attend all sessions (unless urgent/unanticipated conflict arises)
2. Complete all readings in advance
3. Prepare for and fully engage in discussions
February 5, 2019: Week 1
Choosing Models and Frameworks in Designing Implementation Science Studies – Dr. Steve Bernstein

Readings:

February 19, 2019: Week 2
Designing and Implementing Interventions to Change Organizational Behavior – Dr. Leslie Curry

Readings:


March 5, 2019: Week 3
Advanced Designs in Clinical Trials: Hybrid, MOST and SMART – Dr. Steve Bernstein and Dr. Jen Edelman

Readings:


March 19, 2019: Week 4
Big Data and Health IT in Implementation Studies – Dr. Steve Bernstein

Readings:


April 2, 2019: Week 5
User-Centered Design and Health IT– Dr. Ted Melnick and Dr. Steve Bernstein

Readings:
Nielsen. 2006. UC Maturity Stages 1-4 [https://www.nngroup.com/articles/ux-maturity-stages-1-4/]
Nielsen. 2006. UC Maturity Stages 5-8 [https://www.nngroup.com/articles/ux-maturity-stages-5-8/]

Optional Readings:
Melnick et al. Patient-centered decision support. JMIR 2017


April 16, 2019: Week 6
Economic Considerations and Implementation Science – Dr. Ted Miller, PIRE

Readings:

April 30, 2019: Week 7
Systems Thinking and/or WORKSHOP SCHOLAR PROJECTS (tentative)

Readings:
TBD

May 21, 2019: Week 8 (note, schedule change)
Translating Evidence into Policy: Tobacco Case Study – Dr. Steve Bernstein (tentative)

Readings:

Note: Other possible topics to replace one of the above based on participant interest: Disparities and implementation science, Sustainability of interventions, De-implementation