2012

Introduction to Dissemination and Implementation Science - Course Syllabus 2011-2012

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M19 - Introduction to Dissemination and Implementation Science

Spring 2012

Time/Place: Wednesdays 1 to 4 pm (2/1/12 - 2/29/12)
Kingshighway Building, 7th floor, Room 7326

Instructors: Ross Brownson, Enola Proctor

Office hours: By appointment
rbrownson@wustl.edu
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Target audience: Researchers in clinical and population sciences; clinical training program participants; MSPH and MPH students; prior research experience is helpful but not required.

Prerequisites: None

Credits: 1
Course overview

**Description:** This course provides an introduction to dissemination and implementation (D&I) science (i.e., translational research in health). Topics include the importance and language of D&I science; designs, methods, and measures; differences and similarities across clinical, public health, and policy settings; selected tools for D&I research and practice; and future issues.

**Evaluation:** Students will design a research/practice project in dissemination and implementation research, create a poster, and answer questions related to their project. Researchers might analyze a data set or develop a grant application. Practitioners might conduct a D&I project to improve patient care or population health.

**Competencies:**

1. Understand the importance and language of D&I science.
2. Explore the theories and frameworks that are commonly used in D&I research and practice.
3. Describe various study designs and measures that support D&I science.
4. Understand D&I methods and challenges across various settings and populations.
5. Understand how D&I science can further your research/practice plans and career.
Course format and requirements

Students are expected to attend all classes. Readings assigned for each class should be read ahead of time and students should be prepared to discuss readings in class and to be active participants in the learning process.


Grading and assignments: One class assignment that involves development of a D&I research project, presented as a poster.

Grading scale:
A 95-100%
A- 90-94.9%
B+ 85-89.9%
B 80-84.9%
B- 75-79.9%
C+ 70-74.9%
C 60-69.9%
### Introduction to Dissemination and Implementation Science

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Instructor(s)</th>
<th>Topic</th>
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| Class 1 | February 1 | Brownson, Proctor              | Rationale for D&I research, overview of the field, continuum of translational research, language | Ch. 1: Colditz GA. The promise and challenges of dissemination and implementation research.  
Ch. 2: Rabin B. Developing the terminology for dissemination and implementation research.  
| Class 2 | February 8 | Brownson, Proctor, Tabak, Dodson, Owens | Theories and frameworks in D&I research (with a policy example), comparative effectiveness research | Damschroder LF, Aron DC, Keith RE, Kirsh SR, Alexander JA, Lowery JC. Fostering implementation of health services research findings into practice: a consolidated framework for advancing implementation science. Implementation Science, 2009;4:50.  
| Class 3 | February 15 | Proctor, Brownson, Moreland-Russell, Lobb | Study designs, measures, partnerships, sustainability | Ch. 12: Landsverk J. Design and analysis of dissemination and implementation research.  
Ch. 13: Proctor. Measurement issues in dissemination and implementation research.  
| Class 4 | February 22 | Proctor, Brownson, Carpenter, Stamatakis | Methods and challenges across settings | Ch. 17: Stamatakis K. Community and public health settings  
| --- | --- | --- | --- |
| Class 5 | February 29 | Brownson, Proctor | Future issues and student presentations (posters)  
Build from worksheets completed in earlier sessions | Ch. 24: Brownson. The path forward in dissemination and implementation research |