PRESENTATION OVERVIEW


✈ What is dissemination & implementation (D&I) science?
✈ Who should pursue the D&I science certificate?
✈ Why pursue the D&I science graduate certificate?
✈ Where are certificate courses held?
✈ How do I apply?
✈ When should I apply?
Definitions

- **Dissemination research**: scientific study of targeted distribution of information and intervention materials to a specific public health or clinical practice audience. *(how best to communicate and integrate evidence-based interventions?)*

- **Implementation Research**: scientific study of the use of strategies to adopt and integrate evidence-based health interventions into clinical and community settings to improve individual outcomes and benefit population health.
WHAT IS DISSEMINATION & IMPLEMENTATION (D&I) SCIENCE?

With Traditional D&I Approach
14%, 17 years

With Active D&I Approach
80%, 3 years

WHAT IS DISSEMINATION & IMPLEMENTATION (D&I) SCIENCE?

WHAT PAR-19-274 – Dissemination and Implementation Research in Health
WHAT IS THE RATIONALE FOR OUR D&I GRADUATE CERTIFICATE?

Rationale

➧ Addresses a local and national need for rigorous training in D&I Science in health services and public health research

➧ Leverages our outstanding D&I faculty and resources on our campus, and our connections with other national D&I leaders as guest lecturers
Educational Philosophy

- Tailor materials and assignments to each student’s current D&I experience level, professional background, and future goals.
- Personal attention is important to ensure individual attainment of D&I competencies.
  - Small class sizes: 10-15 people maximum.
- Balance theoretical and applied learning.
  - Provide opportunities for students to apply the course theoretical/didactic content to advance a specific research goal in a clinical or public health setting.
WHAT ARE THE D&I COMPETENCIES?

Selected D&I Competencies* addressed

- Develop a rationale for why/how to select a D&I model
- Design pragmatic interventions and evaluations
- Select appropriate process/outcome measures
- Balance the need for adaptations with fidelity
- Use of mixed methods for evaluation of D&I studies
- Engage key stakeholders throughout the process

Total of 12 credit hours completed within a 3-year period

**Required Courses (7 credit hours)**

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credits</th>
<th>Timing</th>
</tr>
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<tbody>
<tr>
<td>CLSC 7653: Introduction to Dissemination and Implementation Research in Health <em>(Rabin)</em></td>
<td>3</td>
<td>Fall (yearly)</td>
</tr>
<tr>
<td>CLSC 6560: Designs and Mixed Methods in Implementation Research <em>(Holthorp)</em></td>
<td>2</td>
<td>Spring (yearly)</td>
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<tr>
<td>CLSC 6570: Designing for Dissemination and Sustainability <em>(Morrato and Kwan)</em></td>
<td>2</td>
<td>Summer (yearly)</td>
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Elective Courses (5 credit hours)

<table>
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<tr>
<th>Elective Courses</th>
<th>Credits</th>
<th>Timing</th>
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<tbody>
<tr>
<td>CLSC 6850: Advanced topics in Dissemination and Implementation Science (<em>Huebschmann, this class can be taken twice for up to 2 credits</em>)</td>
<td>1</td>
<td>Fall, Spring, (yearly)</td>
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<tr>
<td>CLSC XXX: Understanding D&amp;I Context and Adaptation (<em>Glasgow/Rabin; new for Spring 2021</em>)</td>
<td>2</td>
<td>Spring (yearly)</td>
</tr>
<tr>
<td>CLSC XXX: Grant-writing for D&amp;I Research (<em>Glasgow, Brownson, new for Summer 2020</em>)</td>
<td>2</td>
<td>Summer (yearly)</td>
</tr>
<tr>
<td>Other electives as approved by the Director</td>
<td>2</td>
<td>yearly</td>
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</table>
“Introduction to Dissemination and Implementation Research in Health” (CLSC 7653 - Rabin)

- Overview of key D&I models, methods, and measures
- Supports students to develop D&I grant or Quality Improvement (QI) project proposal over the semester
- Ideas that students develop in this initial course may be further developed in additional later courses (see next slide)
“Grant-writing for D&I” (new course – begins June 2020 – Glasgow/Brownson)

- Led by Drs. Glasgow/Brownson with numerous other national D&I researchers participating
- Webinar presentations on D&I grant segments
- Students draft/revise grant sections to get feedback
- Leads up to a mock study section final exam
“Advanced research topics in D&I Science” (CLSC 6850 - Huebschmann)

- Journal club discussions – presenting critiques of recent D&I publications followed by small group discussion with our ACCORDS D&I team (includes Drs. Rabin, Glasgow, Holtrop, Kwan, and others)
- Research presentations – guidance and critiques on delivering an oral research presentation
Testimony

"Thank you for making learning this essential material so fun. I wish the weekly zoom sessions and writing assignments could go on indefinitely (not kidding)!

- Anna Maw, MD – Assistant Professor of Hospital Medicine and NHLBI IMPACT K12 scholar, University of Colorado School of Medicine

"Thank you for a fantastic class and for continuing to share resources! I really appreciate how well-structured your class is. You strike just the right balance between sharing new content, allowing time for discussion and reflection, applying D&I concepts to individual projects, and bringing in experts at different career stages."

- Meredith Fort, PhD - Research Assistant Professor and NHLBI IMPACT K12 scholar, University of Colorado School of Public Health
WHO SHOULD PURSUE THE D&I SCIENCE CERTIFICATE?

Target Audience

› Researchers interested in conducting T3-T4 translational research with a focus on the dissemination and implementation of evidence-based programs

› Professionals in health services, community health, and public health research
WHY PURSUE THE D&I SCIENCE GRADUATE CERTIFICATE?

Rationale for individuals in different career stages

➤ K-awardees: Robust coursework for a D&I training goal on a career development award

➤ Mid-career faculty: Become a “home-grown” local faculty expert for D&I research methods in your institution

➤ PhD/DrPH students: potential area of minor concentration research methods

➤ Exploring areas for a PhD: test out the field of D&I science before committing to research in this area
WHERE ARE CERTIFICATE COURSES HELD?

Format
- For students beginning courses in Summer 2020 or later, all courses will be fully available online (Zoom© videoconference platform)

Academic Home
- Collaboration with Clinical Science Graduate Program, part of the Colorado Clinical and Sciences Institute (CCTSI)
- Courses can be applied to graduate degrees (MSCS, PhD)
Admission Requirements

➧ Degree: BA/BS minimum
➧ GPA: A minimum of 3.00 recommended
➧ Complete application forms
➧ Upload CV or resume
➧ Upload transcripts from highest degree completed:
  ▪ Applicants from USA may upload unofficial transcript
  ▪ International applicants must provide official transcript – may also need to complete TOEFL*
  ▪ MD applicants must also upload Bachelor’s degree transcripts
➧ Answer two brief questions about your interests in D&I training (≤200 words per question)

*See website below for details on international applicant requirements for TOEFL scores – certain countries are exempt including Canada (other than Quebec – applicants from Quebec may be exempted in certain circumstances):
http://www.ucdenver.edu/academics/internationalprograms/oia/admissions/apply/application/graduate/Pages/default.aspx
Complete the proper Application form for your background on our website - see next slide for details on WHICH form is right for you…

- SLATE form (University of Colorado (CU) Graduate School Application)
  https://application.admissions.ucdenver.edu/apply/
- Formstack form (Internal form for CERTAIN existing CU Graduate students)
  https://ucdenverdata.formstack.com/forms/di_certificate

Website with FAQs on Application process

- https://cctsi.cuanschutz.edu/training/clsc#dandi
## WHICH APPLICATION DO I FILL OUT?

**University of Colorado Graduate School Application**

- "SLATE"

**Internal Application**

- Formstack

### Factors that determine the type of application to fill out

<table>
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<tr>
<th>Condition</th>
<th>Application</th>
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<tbody>
<tr>
<td>Not a current Graduate Student at any institution</td>
<td>University of Colorado Graduate School Application</td>
</tr>
<tr>
<td>Current Graduate Student, but <strong>NOT at the University of Colorado (CU)</strong></td>
<td>Internal Application (Formstack)</td>
</tr>
<tr>
<td>Currently taking courses at CU, but not in enrolled in a degree-seeking program (i.e., non-degree student)</td>
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<tr>
<td>Current CU Medical Student at Anschutz Medical Campus (AMC)</td>
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</tr>
<tr>
<td>Current CU Graduate Student at Boulder or Colorado Springs campus</td>
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### Link to application

- [https://application.admissions.ucdenver.edu/apply/](https://application.admissions.ucdenver.edu/apply/)

- Choose:
  - University of Colorado Denver
  - Graduate Non-Degree Admissions
    - In the Academic Interests part, mark the “Certificate” option
    - Select the “Dissemination and Implementation Certificate”

### Application materials

- Official or Unofficial Transcripts from highest completed degree
  - *International applicants must provide official transcripts; International applicants must provide TOEFL scores unless their country/province is exempt (Canadian applicants are exempt from the TOEFL requirement other than those from Quebec); MD applicants should also provide Bachelor’s degree transcript)*
- CV/Resume
- Program Specific Questions
- $50-75 fee

### Questions

- Galit.Mankin@cuanschutz.edu

### Internal Application (Formstack)

- [https://ucdenverdata.formstack.com/forms/di_certificate](https://ucdenverdata.formstack.com/forms/di_certificate)

- Official or Unofficial Transcripts from highest completed degree
- CV/Resume
- Program Specific Questions

- Galit.Mankin@cuanschutz.edu
Information on Tuition Costs

- MS Clinical Sciences Program: 2019-2020
  - Resident = $494/credit hour
  - Non-resident = $1,204/credit hour

Reminder: 12 credit hours total to complete the Certificate, may be completed over 2-3 years.

University of Colorado faculty members may use Tuition Assistance for courses if they are an eligible employee.
Cohort starting classes in Summer or Fall 2020

- Application available now on our website
- Due date: March 15, 2020
- Timing to matriculate (start courses):
  - June 2020 (Summer semester)
  - August 2020 (Fall semester)
ACKNOWLEDGEMENTS

It takes a village! Thank you!

Primary sponsor: ACCORDS
- ACCORDS Director/Administration
  - Alison Kempe
  - JD Ainsworth

ACCORDS D&I Certificate Faculty and Staff
- Alison Saville
- Russ Glasgow
- Jodi Holtrop
- Ross Brownson
- Bethany Kwan
- Elaine Morrato

Secondary sponsor: CCTSI
- CCTSI Clinical Sciences Graduate Program
  - Lisa Cicutto
  - Galit Mankin

University of Colorado Graduate School
- Kristine Sikora
- Alaina Leverenz
General Program questions: Dr. Amy Huebschmann
Amy.Huebschmann@cuanschutz.edu

Application-specific questions:
Galit.Mankin@cuanschutz.edu

Join our mailing list! https://bit.ly/2TQh6nv