

## Program Description

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### Certificate in Type 2 Translational Research

The Certificate in Type 2 Translational Research addresses a well documented gap in what should be a continuum between basic health and medical research discoveries and the application of those discoveries in clinical and public health practice. To bridge this gap new discoveries must move beyond efficacy studies (type 1 translational research) to research that tests effectiveness in real world settings.

#### What is Type 2 Translational Research (T2TR)?

Type 2 translational research builds on type 1 by focusing on the application of efficacious practices in typical community settings, exploring factors that facilitate or impede implementation of efficacious practices. Type 2 translational research requires engagement among community members, organizations, clinicians and researchers as partners in the research process and draws on a distinct set of skills. This certificate focuses on the development of skills to engage successfully in T2TR.

##### *Foundational knowledge to be acquired*

- Evolution and history of T2TR
- Significance and specific contributions of T2TR to health care system development and, more specifically, patient health
- Research designs and methods appropriate for T2TR
- Common obstacles faced by T2TR researchers and strategies to overcome them
- Presenting T2TR to various audiences
- Implications of organizational context of research
- Developing community partnerships
- Designing research that is compatible with identified organizational goals and values
- Understanding communities and community partners

##### *Application/performance skills to be acquired*

- Framing a research question and designing a study that is consistent with T2TR
- Distinguishing T2TR from other types of research
- Determining appropriate research design and methods for identified T2TR questions
- Formulating quasi-experimental and experimental field research designs
- Devising data gathering methods for working in community organizations that are cognizant of organizational culture and values, staffing, and work flow
- Implementing research and design methods that provide direct benefits for the community/organizational site

##### *Human dimension (ethics and transdisciplinarity) skills to be acquired*

- Committing to relationship accountability with community partners through the research process, which encompasses consent, recruitment, retention, compensation, data reporting, dissemination of results, and provision of sustainable resources and programming
- Recognizing the value of collaborating with researchers in other disciplines
- Identifying sources and resources for collaboration with researchers across disciplines

An objective of this certificate program is to enroll students and professionals from a variety of disciplines and workforce sectors, including non-health fields such as education, public policy, anthropology, sociology, social work, and business. Course participation will be enriched by the perspectives of people who will have a variety of approaches to community health research questions. There are T2TR certificates for graduate and Capstone students. (The curriculum requirements are the same for both.)

- The *Graduate Certificate* in T2TR is for students currently enrolled in any of the approved graduate programs at the UW-Madison. It is intended to supplement basic research training.
- The *Capstone Certificate* in T2TR is for students who enroll as “Capstone” students (not degree-seeking graduate students). These students seek to “cap off” their undergraduate training or are professionals seeking specialized training in T2TR.

## Curriculum

The Certificate in Type 2 Translational Research curriculum consists of five courses and one project for a total of 14-to-15 credit hours. Depending on your course load, you may be able to complete course requirements within two years.

	CREDIT HOURS
1. Introductory course: <i>Intro to Type 2 Translational Research</i>	3
2. Choose from elective area: <i>Working with Communities*</i>	2–3
3. Choose from elective area: <i>Quantitative Methods Relevant to Type 2 Research*</i>	3
4. Choose from elective area: <i>Qualitative Methods Relevant to Type 2 Research*</i>	3
5. <i>Project: Type 2 Translational Research</i>	2
6. <i>Seminar: Type 2 Translational Research</i>	1
<b>TOTAL</b>	<b>14–15**</b>

\* Your Certificate Advisor can help you identify courses that qualify for elective credit. See the list of suggested elective courses on “Electives: Certificate in Type 2 Translational Research” available online in the “Certificates” section at <http://uwictr.wisc.edu/node/26>. Read below for more information.

\*\* At least 50 percent of credits applied toward Certificate requirements must be taken in residence at UW-Madison.

### ***Intro to Type 2 Translational Research .....3 credit hours***

#### ***Course number: POP HLTH 650-035 (POP HLTH 650 section 35)***

An introduction to type 2 methods, issues, and competencies, including effectiveness, dissemination, implementation and policy research. Taught by Maureen Smith, MD, PhD, MPH, the overview course will be offered each fall semester and is required as the first course in the curriculum sequence.

### ***Electives .....8–9 credit hours***

Elective courses may be taken at any time during your Certificate program. To fulfill the eight-to-nine hours of elective requirements, students must take one course from each of the following areas.

1. Working with Communities
2. Quantitative Research Methods Relevant to T2TR
3. Qualitative Research Methods Relevant to T2TR

Your Certificate Advisor can help you choose courses that qualify as elective credit. At least one of the elective courses must be from outside your major. For important details and a list of suggested electives, see “Electives: Certificate in Type 2 Translational Research,” available on the web at <http://uwictr.wisc.edu/node/26> (in the “Certificates” section).

### ***Project: Type 2 Translational Research .....2 credit hours***

*Offered Spring 2010. Check with your Certificate Advisor for enrollment information.*

You will complete a project in which you will apply T2TR concepts, methods, and approaches to important health-related issues. You may start your project any time after you have satisfactorily completed the introductory course in T2TR. First meet with your Certificate Advisor to discuss your project ideas, opportunities and goals. Your Certificate Advisor will help you identify a project plan that meets the following learning objectives. Your project plan must be approved by your Certificate Advisor and satisfactorily completed in order to fulfill the Certificate requirement.

#### *Project learning objectives/criteria for approval:*

- You may fulfill the project requirement in a variety of ways, e.g., develop a funding proposal for a T2TR project, work with a community organization on a research project or proposal, or serve a practicum with a faculty member on a relevant T2TR project.
- In your project plan, explain how your project will help you to learn or apply at least three of the following T2TR skills.

- Frame a research question and design a study that is consistent with T2TR.
- Determine appropriate qualitative methods for identified T2TR questions.
- Devise data gathering methods for working in community organizations that are cognizant of organizational culture, values, staffing, and work flow.
- Adopt community data-gathering methods that are responsive to residents and/or staff.
- Implement research and design methods that provide direct benefits for the community/organizational site.
- Commit to relationship accountability with community partners through the research process, which encompasses consent, recruitment, retention, compensation, data reporting, dissemination of results, and provision of sustainable resources and programming.
- Collaborate with researchers in other disciplines.
- All certificate students will give a presentation about their project during one of the sessions of the seminar in which they will discuss how T2TR methods were applied to achieve the project's outcome(s).

**Seminar: Type 2 Translational Research ..... 1 credit hour**

*Check with your Certificate Advisor for enrollment information. Certificate students should take the Seminar during the last semester of their program.*

*Seminar topics*

- Seminar participants will explore the range of research methodologies that are used to conduct T2TR, some of the challenges encountered by researchers, and how they have addressed these challenges.
- Faculty members who have conducted T2TR will discuss their research.
- Community partners who have collaborated with academics on T2TR research projects will participate.
- Governmental department staff people who have used T2TR findings will discuss how to make research useful for public policy.

*Student participation*

- You will have an opportunity to discuss your own research experiences and your plans to conduct T2TR in the future.
- To apply the seminar toward certificate program requirements, you will be required to attend each seminar session, participate in discussions, prepare and facilitate discussion during one of the meetings, and write a one-page summary of two seminar discussions.

**Application Guidelines**

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**Graduate Certificate Prerequisites and Application and Enrollment Procedures**

Graduate students from any discipline are eligible to apply for enrollment in the Graduate Certificate program. To be admitted into the Graduate Certificate program, current graduate students must complete the following application requirements.

1. Print and complete the certificate application form available online in the “Certificates” section at <http://uwictr.wisc.edu/node/26>.
2. Mail your completed application to Sharon Schumacher, Box 2455 Clinical Science Center, University of Wisconsin, Madison, WI 53792, [scschumache2@wisc.edu](mailto:scschumache2@wisc.edu)
3. Your application will be reviewed by the ICTR Faculty Governance Committee. To be considered for fall admission, complete the application process by March 1. Applications are reviewed once per year. (Spring admission will be allowed when the applicant has completed the required first course of the program and therefore is able to continue the course sequencing in the spring.)
4. NOTE: International students are required to enroll as full-time students, i.e., a minimum of eight credits. Please contact Sharon Schumacher to discuss a course plan meeting the eight-credit requirement before applying to the program.
5. *Notification of admission to the Graduate Certificate program:* If you have completed the application procedures described above, you will receive notification of the admission decision by June 1.

6. Set up an appointment with a Certificate Advisor within the **first month** of your Certificate program to identify learning and career objectives and to discuss your program in relation to your goals. You may choose an advisor from among the following faculty members. *We encourage you to choose an advisor from a discipline outside your major area of study or profession.*

- Barbara Bowers, School of Nursing  
Web page: <http://www.son.wisc.edu/people/faculty/bowers.html>  
E-mail: [bjbowers@wisc.edu](mailto:bjbowers@wisc.edu)
- Pascale Carayon, College of Engineering, Department of Industrial and Systems Engineering  
Web page: [http://www.engr.wisc.edu/ie/faculty/carayon\\_pascale.html](http://www.engr.wisc.edu/ie/faculty/carayon_pascale.html)  
E-mail: [carayon@ie.engr.wisc.edu](mailto:carayon@ie.engr.wisc.edu)
- Betty Chewning, School of Pharmacy  
Web page: <http://www.pharmacy.wisc.edu/sopdir/PersonDetails.cfm?ID=51>  
E-mail: [bachewning@pharmacy.wisc.edu](mailto:bachewning@pharmacy.wisc.edu)
- Craig Gjerde, School of Medicine and Public Health  
Web page: <http://www.fammed.wisc.edu/directory?firstname=&lastname=Gjerde>  
E-mail: [clgjerde@wisc.edu](mailto:clgjerde@wisc.edu)
- Jan Greenberg, School of Social Work  
Web page: <http://www.waisman.wisc.edu/faculty/greenberg.html>  
E-mail: [greenberg@ssc.wisc.edu](mailto:greenberg@ssc.wisc.edu)
- Maureen Smith, School of Medicine and Public Health  
Web page: <http://www.pophealth.wisc.edu/faculty/maureensmith>  
E-mail: [maureensmith@wisc.edu](mailto:maureensmith@wisc.edu)

## Capstone Certificate Prerequisites, Application and Enrollment Procedures, Tuition

### 1. Pre-requisites:

- a. Students not currently enrolled in a graduate or professional degree program may enroll in the Capstone Certificate program as a Capstone Student through the Division of Continuing Studies.
- b. An earned baccalaureate degree or its equivalent from an accredited college or university is required for enrollment in the Capstone Certificate.
- c. Every applicant to the Capstone Certificate program whose native language is not English, or whose undergraduate instruction was not in English, must provide official scores from the Test of English as a Foreign Language (TOEFL) or the Michigan English Language Assessment Battery (MELAB). An admitted Capstone applicant must have a TOEFL (paper-based) test score above 580; TOEFL computer-based test (CBT) score above 237; or MELAB score above 82.
- d. NOTE: International students are required to enroll as full-time students, i.e., a minimum of eight credits. Please contact Sharon Schumacher to discuss a course plan meeting the eight-credit requirement before applying to the program.

### 2. Application process for Capstone Certificate students:

Step 1: Apply online as a Capstone student (UNCS) at <http://www.dcs.wisc.edu/capstone/translational-research.htm>. After your online application is complete, you will receive notification from DCS about your Capstone student admission status. For additional information about applying as a Capstone student, contact Mary Quass, Division of Continuing Studies, [mquass@dcs.wisc.edu](mailto:mquass@dcs.wisc.edu), 608.262.2862, 608.263.6960

Step 2: After admitted as a Capstone student, you will receive additional application materials and procedures from the Institute for Clinical and Translational Research (ICTR). ICTR will ask you to complete and submit an application for admission for the Capstone Certificate in T2TR, along with the following materials.

- A photocopy of your official transcript from each college you have attended

- Your CV/resume
  - Two letters of recommendation
3. *Timeline:* To be considered for fall admission, complete the full application process by March 1. Capstone applications are reviewed once per year. To increase your likelihood of completing the two-step application process by March 1, you will benefit by starting the application process as early as November of the year before you wish to begin the program.
  4. *Notification:* If you have completed all the application procedures described above, you will receive notification of the admission decision by June 1.
  5. *Tuition:* The fee structure for the Capstone Certificate will be the same as that of credit-based graduate tuition. <[http://www.registrar.wisc.edu/students/fees\\_tuition/tuition.php](http://www.registrar.wisc.edu/students/fees_tuition/tuition.php)>

## Sample Curricula

<b>Four-Semester Sample Curriculum</b>		<b>Credits</b>
<b>Semester One</b>		
POP HLTH 650-035	Intro to Type 2 Translational Research (core requirement)	3
LAW 940	Law and Contemporary Problems: Consumer Issues in Health Systems and Health Care Delivery (fulfills required elective area <i>Working with Communities</i> )	3
<b>Semester Two</b>		
POP HLTH 796	Introduction to Health Services Research (fulfills required elective area <i>Quantitative Methods Relevant to T2TR</i> )	3
SOC 755	Methods of Qualitative Research (fulfills required elective area <i>Qualitative Methods Relevant to T2TR</i> )	3
<b>Semester Three</b>		
Project: Type 2 Translational Research (core requirement)		2
<b>Semester Four</b>		
Seminar: Type 2 Translational Research (core requirement)		1
<b>TOTAL CREDIT HOURS</b>		<b>15</b>

<b>Six-Semester Sample Curriculum</b>		<b>Credits</b>
<b>Semester One</b>		
POP HLTH 650-035	Intro to Type 2 Translational Research (core requirement)	3
<b>Semester Two</b>		
LAW 940	Law and Contemporary Problems: Consumer Issues in Health Systems and Health Care Delivery (fulfills required elective area <i>Working with Communities</i> )	3
<b>Semester Three</b>		
POP HLTH 796	Introduction to Health Services Research (fulfills required elective area <i>Quantitative Methods Relevant to T2TR</i> )	3
<b>Semester Four</b>		
SOC 755	Methods of Qualitative Research (fulfills required elective area <i>Qualitative Methods Relevant to T2TR</i> )	3
<b>Semester Five</b>		
Project: Type 2 Translational Research (core requirement)		2
<b>Semester Six</b>		
Seminar: Type 2 Translational Research (core requirement)		1
<b>TOTAL CREDIT HOURS</b>		<b>15</b>

## Certificate Contact

Sharon Schumacher  
[scschumache2@wisc.edu](mailto:scschumache2@wisc.edu)  
 608.262.1415 phone

Box 2455 Clinical Science Center  
 University of Wisconsin  
 Madison, WI 53792