

FUNDAMENTALS OF CLINICAL RESEARCH, GRADUATE/PROFESSIONAL CERTIFICATE

To conduct patient-oriented clinical studies adequately, it is necessary to understand the principles of research design and statistical analysis. With increasing complexities in clinical research, it is imperative that clinical researchers receive a minimum training in clinical research methods. The objective of the certificate in the fundamentals of clinical research is to provide formalized training in clinical research methodology and a practicum in research design and statistical analysis in patient-oriented clinical research. Areas of study include: biostatistics, epidemiology, research ethics and the responsible conduct of research, and clinical trials design and implementation.

ADMISSIONS

Applications to the certificate program are considered on a rolling basis. Students in graduate or professional school at the UW–Madison simply apply in time to register for the semester in which they want to start the certificate courses.

Submit the Graduate or Professional Certificate application (<https://ictr.wisc.edu/documents/professional-certificate-in-the-fundamentals-of-clinical-research-application/>).

All forms and materials can be emailed in PDF form (preferred), delivered, or mailed to:

Graduate Program Manager (see contact box for individual contact information)
studentinquiry@ictr.wisc.edu
2112 Health Sciences Learning Center
750 Highland Avenue
Madison, WI 53705

*All Graduate School students must also utilize the Graduate Student Portal in MyUW to add, change, or discontinue any graduate/professional certificate. To apply to this certificate, log in to MyUW, click on Graduate Student Portal, and then click on Add/Change Programs. Select the information for the graduate/professional certificate for which you are applying.

REQUIREMENTS

The Certificate Program in the Fundamentals of Clinical Research consists of five courses for a total of 12–15 credits.

Code	Title	Credits
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Required Courses

Students complete the following courses.

B M I/STAT 542	Introduction to Clinical Trials I	
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POP HLTH/ SOC 797	Introduction to Epidemiology
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Biostatistics Requirement

Students complete 3–6 credits to fulfill this requirement. Course selections are listed below.

B M I/STAT 541	Introduction to Biostatistics
B M I 699	Independent Study ¹
B M I/ POP HLTH 551 & B M I/ POP HLTH 552	Introduction to Biostatistics for Population Health and Regression Methods for Population Health

Clinical Translational Science Requirement

Students complete 3-credits to fulfill this requirement. Course selections are listed below.

B M I 544	Introduction to Clinical and Healthcare Research II
B M I 773	Clinical Research Informatics
POP HLTH 709	Translational and Outcomes Research in Health and Health Care

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The 1-credit B M I 699 is for students with instructor consent who have prior statistics (not biostatistics) coursework. Students who take this option must also complete an additional 2 credits. Consult with certificate program for course options.

Questions can be directed to the Graduate Program Manager, at studentinquiry@ictr.wisc.edu. (studentinquiry@ictr.wisc.edu)

LEARNING OUTCOMES

1. Determine when it is appropriate to use a patient-oriented research design to investigate a translational clinical problem.
2. Understand the principles of clinical research design and statistical analysis.
3. Understand the principles of multidisciplinary patient-oriented clinical research protocols.
4. Apply and foster professional, ethical and responsible conduct of clinical research.