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.wiscweb.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:

Sally Wedde, Program Manager
rec-education@hslc.wisc.edu
2112 Health Sciences Learning Center
750 Highland Avenue
Madison, WI 53705

REQUIREMENTS

The Certificate Program in the Fundamentals of Clinical Research consists of five courses for a total of 13–14 semester credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Required Courses</strong></td>
<td></td>
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<tr>
<td>B M I/STAT 541</td>
<td>Introduction to Biostatistics</td>
<td>3</td>
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<tr>
<td>B M I/STAT 542</td>
<td>Introduction to Clinical Trials I</td>
<td>3</td>
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<tr>
<td>B M I 544</td>
<td>Introduction to Clinical Trials II</td>
<td>3</td>
</tr>
<tr>
<td>POP HLTH/SOC 797</td>
<td>Introduction to Epidemiology</td>
<td>3</td>
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<tr>
<td><strong>One lecture course in ethical conduct of research selected</strong></td>
<td>from the following list of courses:</td>
<td>1-2</td>
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<tr>
<td>SURG SCI 812</td>
<td>Research Ethics and Career Development</td>
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<tr>
<td>MED HIST 545</td>
<td>Ethical and Regulatory Issues in Clinical Investigation</td>
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NURSING 802  Ethics and the Responsible Conduct of Research
ONCOLOGY 715 Ethics in Science
PHARMACY 800 Research Ethics: Scientific Integrity and the Responsible Conduct of Research
OBS&GYN 955  Responsible Conduct of Research for Biomedical Graduate Students

Total Credits 13-14

Questions can be directed to Sally Wedde, Program Manager, at rec-education@hslc.wisc.edu. (http://guide.wisc.edu/graduate/institute-clinical-translational-research/fundamentals-clinical-research-graduate-professional-certificate/rec-education@hslc.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.