

# CLINICAL INVESTIGATION, PH.D.

## REQUIREMENTS

### MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum academic progress and degree requirements (<http://guide.wisc.edu/graduate/#policiesandrequirements>), in addition to the program requirements listed below.

### MAJOR REQUIREMENTS

#### MODE OF INSTRUCTION

Face to Face	Evening/ Weekend	Online	Hybrid	Accelerated
Yes	Yes	No	Yes	No

#### Mode of Instruction Definitions

**Accelerated:** Accelerated programs are offered at a fast pace that condenses the time to completion. Students typically take enough credits aimed at completing the program in a year or two.

**Evening/Weekend:** Courses meet on the UW–Madison campus only in evenings and/or on weekends to accommodate typical business schedules. Students have the advantages of face-to-face courses with the flexibility to keep work and other life commitments.

**Face-to-Face:** Courses typically meet during weekdays on the UW–Madison Campus.

**Hybrid:** These programs combine face-to-face and online learning formats. Contact the program for more specific information.

**Online:** These programs are offered 100% online. Some programs may require an on-campus orientation or residency experience, but the courses will be facilitated in an online format.

### CURRICULAR REQUIREMENTS

#### Requirement Detail

Minimum Credit Requirement	51 credits
Minimum Residence Credit Requirement	32 credits
Minimum Graduate Coursework Requirement	26 credits must be graduate-level coursework. Details can be found in the Graduate School's Minimum Graduate Coursework (50%) policy ( <a href="https://policy.wisc.edu/library/UW-1244">https://policy.wisc.edu/library/UW-1244</a> ( <a href="https://policy.wisc.edu/library/UW-1244/">https://policy.wisc.edu/library/UW-1244/</a> )).
Overall Graduate GPA Requirement	3.00 GPA required. This program follows the Graduate School's policy: <a href="https://policy.wisc.edu/library/UW-1203">https://policy.wisc.edu/library/UW-1203</a> ( <a href="https://policy.wisc.edu/library/UW-1203/">https://policy.wisc.edu/library/UW-1203/</a> ).

**Other Grade Requirements** Students must earn a B or above in all core curriculum coursework.

**Assessments and Examinations** Oral preliminary exam required. Defense of Ph.D. dissertation required. The dissertation is submitted in writing to the degree committee two weeks prior to the defense date, and then defended verbally during the defense meeting.

**Language Requirements** No language requirements.

**Graduate School Breadth Requirement** Doctoral students in Clinical Investigation are not required to complete a doctoral minor or graduate/professional certificate. Breadth is achieved in other areas of the curriculum.

### REQUIRED COURSES

Code	Title	Credits
<b>Required Courses</b>		
Students complete the following courses.		
B M I/STAT 542	Introduction to Clinical Trials I	
POP HLTH 709	Translational and Outcomes Research in Health and Health Care	
POP HLTH/ SOC 797	Introduction to Epidemiology	
NURSING/ MEDICINE/ POP HLTH 705	Seminar in Interdisciplinary Clinical Research Evidence	
H ONCOL 750	Multi-disciplinary Patient-Oriented Research Presentation Skills Seminar	

#### 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/ POP HLTH 551	Introduction to Biostatistics for Population Health
& B M I/ POP HLTH 552	and Regression Methods for Population Health <sup>1</sup>
B M I 699	Independent Study <sup>2</sup>

#### 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

#### Research Design Requirement

CTS, stat, or methods courses. Students complete 6-credits to fulfill this requirement. Course must note 50% graduate student attribute. Possible course selections are listed below. For additional options, request approval from the program administrator.

SOC/ C&E SOC 361	Statistics for Sociologists II
B M I/ POP HLTH 552	Regression Methods for Population Health
B M I/I SY E 617	Health Information Systems

B M I/ POP HLTH 651	Advanced Regression Methods for Population Health
B M I/STAT 741	Survival Analysis Theory and Methods
B M I/ COMP SCI 767	Computational Methods for Medical Image Analysis
B M I/ COMP SCI 771	Learning Based Methods for Computer Vision
B M I/ COMP SCI 775	Computational Network Biology
B M I/COMP SCI/ PSYCH 841	Computational Cognitive Science
NURSING 804	Advanced Qualitative Design and Methods
CURRIC/ COUN PSY/ ED POL/ ED PSYCH/ELPA/ RP & SE 719	Introduction to Qualitative Research
ED PSYCH 761	Statistical Methods Applied to Education II
ED PSYCH 771	Test Construction

#### Grant Writing Requirement

Students complete one course to fulfill this requirement. Course must note 50% graduate student attribute. Possible course selections are listed below. For additional options, request approval from the program administrator.

S&A PHM 701	Grant Writing for Health Services Research
CS&D 900	Seminar-Speech Science (Topic: Research Career Development Seminar on Grant Writing)

#### Responsible Conduct for Research Requirement

Students complete one of following courses to fulfill this requirement.

MED PHYS 701	Ethics and the responsible conduct of research and practice of Medical Physics
ONCOLOGY 715	Ethics in Science
PHARMACY 800	Research Ethics: Scientific Integrity and the Responsible Conduct of Research
NURSING 802	Ethics and the Responsible Conduct of Research
SURG SCI 812	Research Ethics and Career Development
OBS&GYN 955	Responsible Conduct of Research for Biomedical Graduate Students
OBS&GYN 956	Advanced Responsible Conduct of Research for Biomedical Students

#### Research or Elective Courses

Additional courses or research credits (e.g., MED 990)

#### Total Credits

51

#### 1

Students who complete this 6-credit sequence are required to take fewer research credits to compensate.

#### 2

The 1-credit B M I 699 Independent Study is for students with instructor consent who have prior statistics (no biostatistics coursework). Students who take this option must also complete 2 credits of another biostatistics course chosen in consultation with the program faculty director.