Clinical Research

Graduate Program Head
Douglas Leslie

Program Code
CR

Campus(es)
Hershey (M.S.)

Degrees Conferred
Master of Science (M.S.)

The Graduate Faculty
View (https://secure.gradsch.psu.edu/gpms/?searchType=fac&prog=CR)

The Master of Science program in Clinical Research includes graduate-level course work in biostatistics, epidemiology, and health services and behavioral research, and provides knowledge and insight required in health-related research. Students learn population-based methods for planning, executing, analyzing, and disseminating research results, and methods for evaluating and improving health care practices.

Admission Requirements

Applicants apply for admission to the program via the Graduate School application for admission (http://gradschool.psu.edu/prospective-students/how-to-apply/). Requirements listed here are in addition to Graduate Council policies listed under GCAC-300 Admissions Policies (http://gradschool.psu.edu/graduate-education-policies/).

Prospective applicants for this program should have at least a bachelor’s degree in a biological, physical, or behavioral science.

Graduate School applications must include the following items to be eligible for consideration. Incomplete applications will not be considered.

- Completed online application (http://gradschool.psu.edu/prospective-students/how-to-apply/)
- Resume or CV
- Official transcripts from all colleges and universities attended (http://www.gradschool.psu.edu/prospective-students/how-to-apply/new-applicants/requirements-for-graduate-admission/); applicants must have completed a bachelor’s degree with a 3.0 GPA or higher, and must have completed at least college-level course in algebra, calculus, or statistics
- Two letters of recommendation
- GRE, GMAT, MCAT or LSAT scores - Taken within the past five years

The language of instruction at Penn State is English. English proficiency test scores (TOEFL/IELTS) may be required for international applicants. See GCAC-305 Admission Requirements for International Students (http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-300/gcac-305-admission-requirements-international-students/) for more information.

Degree Requirements

Master of Science (M.S.)

Requirements listed here are in addition to Graduate Council policies listed under GCAC-600 Research Degree Policies (http://gradschool.psu.edu/graduate-education-policies/gradschool.psu.edu/graduate-education-policies/gcac/gcac-600/gcac-600-research-degree-policies/)

Each student in Clinical Research is expected to acquire breadth of knowledge in the disciplines of Biostatistics, Epidemiology, and Health Services and Behavioral Research, and skills in the areas of experimental design, data collection, and quantitative analysis. The PHS Clinical Research Master of Science degree can lead to careers in a wide variety of fields and settings, including academic health centers; the health insurance industry; health services networks; local, state, and federal government agencies; and the pharmaceutical industry.

Each student must complete at least 30 credits at the 500 or 600. Each student must submit an original Master’s thesis according to the guidelines outlined by the Graduate School (http://gradschool.psu.edu/current-students/etd/).

Code | Title | Credits
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PHS 500 | Research Ethics for Clinical Investigators | 1
PHS 519 | Patient Centered Research | 3
PHS 520 | Principles of Biostatistics | 3
PHS 521 | Applied Biostatistics | 3
PHS 550 | Principles of Epidemiology | 3
PHS 580 | Clinical Trials: Design and Analysis | 3

Choose 8 credits from the following:

- PHS 504 Behavioral Health Intervention Strategies
- PHS 518 Scientific Communication
- PHS 522 Multivariate Biostatistics
- PHS 529 Biostatistical Computing for Public Health
- PHS 530 Principles of Health Services Research
- PHS 535 Quality of Care Measurement
- PHS 536 Health Survey Research Methods
- PHS 540 Decision Analysis for Public Health
- PHS 551 Advanced Epidemiological Methods
- PHS 570 Health Economics and Economic Evaluation

Culminating Experience

PHS 600 | Thesis Research | 6

Total Credits 30

Minor

A graduate minor is available in any approved graduate major or dual-title program. The default requirements for a graduate minor are stated in Graduate Council policies listed under GCAC-600 Research Degree Policies (http://gradschool.psu.edu/graduate-education-policies/) and GCAC-700 Professional Degree Policies (http://gradschool.psu.edu/graduate-education-policies/), depending on the type of degree the student is pursuing.

- GCAC-611 Minor - Research Doctorate (https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-600/gcac-611-minor-research-doctorate/)
- GCAC-641 Minor - Research Master’s (https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-600/gcac-641-minor-research-masters/)
- GCAC-709 Minor - Professional Doctorate (https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-700/gcac-709-professional-doctoral-minor/)
- GCAC-741 Minor - Professional Master’s (https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-700/gcac-741-masters-minor-professional/)
Student Aid

Refer to the Tuition & Funding (http://gradschool.psu.edu/graduate-funding/) section of The Graduate School's website. Students in this program are not eligible for graduate assistantships.

Courses

Graduate courses carry numbers from 500 to 699 and 800 to 899. Advanced undergraduate courses numbered between 400 and 499 may be used to meet some graduate degree requirements when taken by graduate students. Courses below the 400 level may not. A graduate student may register for or audit these courses in order to make up deficiencies or to fill in gaps in previous education but not to meet requirements for an advanced degree.

Public Health Sciences (PHS) Course List (https://bulletins.psu.edu/university-course-descriptions/graduate/phs/)

Contact

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<th>Campus</th>
<th>Hershey Med Ctr</th>
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<tbody>
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<td>Graduate Program Head</td>
<td>Douglas L Leslie</td>
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<td>Program Website</td>
<td>View (<a href="https://med.psu.edu/public-health-ms/">https://med.psu.edu/public-health-ms/</a>)</td>
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