

Online Master of Applied Clinical and Preclinical Research (MACPR)

Program Overview

For more information, please visit: <https://pharmacy.osu.edu/online-programs>

Program Highlights:

100% ONLINE: The **Master of Applied Clinical and Preclinical Research (MACPR)** program is offered 100% online in an asynchronous format through a collaboration of the OSU Colleges of Nursing, Pharmacy, and Medicine.

MULTIDISCIPLINARY CURRICULUM: The program offers a multidisciplinary curriculum, covering the theory and practice of research methods and statistics, the ethics of human subjects research, the science of pharmacology and medical product regulation, and the business of research operations and management. Graduates will have acquired the skills and knowledge required to conduct, manage, and regulate clinical trials as identified by the [Joint Task Force \(JTF\) for Clinical Trial Competency](#).

SPECIALIZATIONS: Two interdisciplinary specializations are offered:

1. **Clinical Research Management** (directed by the College of Nursing)
2. **Regulatory Affairs** (directed by the College of Pharmacy)

WHO SHOULD APPLY? Designed for applicants with any undergraduate degree, this program is particularly well suited for graduates with a degree in the biological/life sciences or pharmaceutical sciences, health care professionals, and those with graduate degrees in the biomedical sciences seeking to diversify their training. There are no course prerequisites for admission.

CAREER OPPORTUNITIES: The program prepares students to excel as administrators, regulatory specialists, and others professional roles on clinical research teams. Graduates are prepared for rewarding careers as clinical research coordinator and managers, clinical research associates (monitors), project and data managers, clinical research trainers, regulatory compliance officers, institutional review board specialists, research quality analysts, and many other positions in the clinical research enterprise.

Program of Study:

The MACPR curriculum consists of 36 credits organized into three curricular areas:

1. **Core coursework** (21 credits minimum), aligns with the JTF for Clinical Trial Competencies for conducting clinical research
2. **Specialization coursework** (12 credits)
3. **Culminating project** (3 credits), an individualized scholarly project to apply clinical research skills and competencies acquired across the master's program (practicum option available with advisor approval)

As a final master's activity, all students compile an ePortfolio of work showcasing their achievements in each of the eight Join Task Force Clinical Trial Competency Domains. The MACPR degree does not require a thesis or a comprehensive master's exam.

Contact:

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Curriculum

Coursework Requirements:

Core Courses (21 credits required)	
<ol style="list-style-type: none">1. Pharmacy 5010: Fundamentals of Pharmacology (<i>for students without prior pharmacology coursework</i>)2. Nursing/Pharmacy 7770: Fundamentals of Medical Product Development and Regulation3. Nursing 7781: Responsible Conduct of Research4. Nursing/Pharmacy 7782: Clinical Research Design and Methods5. Nursing/Pharmacy 7405: Clinical Research Study and Site Management6. Nursing/Pharmacy 7482: Principles of Quality Management for Medical Product Development7. Pharmacy 7784: Data Analysis and Interpretation for Clinical and Preclinical Research (<i>biostatistics</i>)	
Specialization Courses (additional 12 credits required)	
Clinical Research Management	Regulatory Affairs
<ol style="list-style-type: none">1. Nursing 7404: Project Management for Healthcare and Clinical Research2. Nursing 7481: Data Management and Informatics in Clinical Research <p>Select two:</p> <ul style="list-style-type: none">• Pharmacy 5005: Fundamentals to Pathophysiology• Nursing 7402: Economic Evaluation of Healthcare Interventions• Pharmacy 7570: Pharmaceutical Safety & Risk Management• BIOPRHM/CBG/PHR 5700: Introduction to Personalized Therapeutics and Pharmacogenomics• Pharmacy 7460: Regulatory Strategy and Clinical Trial Reporting• Pharmacy 7572: Global Regulation of Medical Products	<ol style="list-style-type: none">1. Pharmacy 7460: Regulatory Strategy and Clinical Trial Reporting2. Pharmacy 7572: Global Regulation of Medical Products3. Pharmacy 7570: Pharmaceutical Safety & Risk Management <p>Select one:</p> <ul style="list-style-type: none">• Pharmacy 7580: Principles of Safety Pharmacology• Nursing 7481: Data Management and Informatics in Clinical Research• Nursing 7404: Project Management for Healthcare and Clinical Research
Culminating Project (3 credits required)	
Nursing/Pharmacy 7599: Culminating Project in Clinical Research	