Online Master of Applied Clinical and Preclinical Research (MACPR)

Program Overview and Curriculum

For more information, please visit: www.macpr.osu.edu

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 subject and animal 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 Join 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 OPPORTUNTITIES: The program prepares students to excel as effective administrators, regulatory compliance specialists, and research team members in clinical and preclinical research. 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.

FINAL MASTER'S ASSESSMENT: 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 thesis or a comprehensive master's exam.

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. Capstone (3 credits minimum), in the form of a clinical research practicum or project

Contact:

For information please contact:

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Coursework Requirements:

Core Courses (21 credits	required)	
Pharmacy 5010	Fundamentals of Pharmacology (for students without prior pharmacology coursework)	
Nursing/Pharmacy 7770:	Fundamentals of Medical Product Development and Regulation	
Nursing 7781:	Responsible Conduct of Research	
Nursing/Pharmacy 7782:	Clinical Research Design and Methods	
Nursing/Pharmacy 7405:	Clinical Research Study and Site Management	
Nursing/Pharmacy 7482:	Principles of Quality Management for Medical Product Development	
Pharmacy 7784	Data Analysis and Interpretation for Clinical and Preclinical Research (biostatistics)	
Specialization Courses	(additional 12 credits required)	
Clinical Research Management		Regulatory Affairs
Nursing 7404: Project Management for Healthcare and		Pharmacy 7460: Regulatory Strategy and Clinical Trial
Clinical Research		Reporting
Nursing 7481: Data Management and Informatics in		Pharmacy 7572: Global Regulation of Medical Products
Clinical Research		
Select two:		Pharmacy 7570: Pharmaceutical Safety & Risk
Nursing 7402: Economic Evaluation of Healthcare		Management
Interventions		Select one:
• Pharmacy 7570: Pharmaceutical Safety & Risk		Nursing 7481: Data Management and Informatics in
Management		Clinical Research
• Pharmacy 5005: Fundamentals to Pathophysiology		Pharmacy 7580: Principles of Safety Pharmacology
CBG/Pharmacy 5700: Introduction to Personalized		
Therapeutics and Pharmacogenomics		
Capstone (Practicum/Proj	ect) (3 credits required)	
Nursing/Pharmacy 7599: Ca	pstone	