

MICRO-CREDENTIALS and MASTERS: ENGAGING PHARMACY STUDENTS IN RESEARCH PROJECTS

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Introduction

- Our pharmacy students have several options to engage in structured research activities:

Micro-credentials in

- **Clinical Pharmacy Research**
- **Pharmaceutical Sciences Research**



Or dual graduate degrees:

- **PharmD + Masters in Pharmaceutical Sciences**
- **PharmD + Masters in Pharmacometrics and Personalized Pharmacotherapy**



Clinical Pharmacy Research

Micro-credential

<http://pharmacy.buffalo.edu/academic-programs/pharmd/special-programs/crp.html>

ELIGIBILITY

- Pharmacy students in their last two professional years - P3 and P4 students
- Overall GPA greater than 3.0
- Formal application process

PROGRAM STRUCTURE

- **Professional Courses:**
 - PHM 551 & 552 Clinical Research 1 & 2
 - PHM 831 Clinical Research APPE: 6-12 week rotation to conduct the research
- **Co-Curricular**
 - Written Research Proposal
 - "Three Minute" style Oral Defense
 - Scientific Poster



PharmD + Masters

Dual Degrees (4+1)

<http://pharmacy.buffalo.edu/academic-programs/pharmd/combined-degrees/dual-graduate-degrees/pharmd-ms-pharmaceutical-sciences.html>

ELIGIBILITY

- P3 student
- Overall GPA greater than 3.0
- Formal application process

PROGRAM STRUCTURE

- Completion of P1 and P2 years, 1 year as a Graduate Masters student, P3 and P4 years = 2 degrees
- **Courses:** 30 credits: 20 graduate didactic + 10 research experience credits
- **Co-Curricular**
 - Data Analysis Project
 - Written Report
 - Public Seminar and Oral Defense

IMPACT

- A digital badge is awarded for completing the Clinical Pharmacy Research program.
 - Two degrees and diplomas are conferred awarded for completing the dual degree program.
 - Students develop their critical thinking / problem solving, research and communication skills through these programs.
 - Students, matched with a faculty advisor, are engaged in a supportive mentoring experience.
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- Over 35 students earned the Clinical Research notation.
 - All of these students went on to residencies or fellowships.
 - Eight students were awarded dual degrees: PharmD and MS.
 - Currently, there are 33 Clinical Pharmacy Research students and 4 PharmD-Masters students.
 - 12-15 Pharmacy students a year are accepted into one of the programs.
 - 24 Faculty from Pharmacy Practice and Pharmaceutical Sciences participate in the program.