# Master of Science in Clinical Pharmacy (PRDM)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Repeatable</th>
<th>Grading Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRDM 7150</td>
<td>Medical Terminology and Lab Interpretation (0.5)</td>
<td></td>
<td></td>
<td>Letter Grade</td>
</tr>
<tr>
<td>PRDM 7323</td>
<td>Pharmacotherapy – Critical Care (1)</td>
<td></td>
<td></td>
<td>Letter Grade</td>
</tr>
<tr>
<td>PRDM 7331</td>
<td>Pharmacotherapy – Pediatrics (1)</td>
<td></td>
<td></td>
<td>Letter Grade</td>
</tr>
<tr>
<td>PRDM 7400</td>
<td>Drug Info Fundamentals (1)</td>
<td></td>
<td></td>
<td>Letter Grade</td>
</tr>
<tr>
<td>PRDM 7413</td>
<td>Masters Drug Information Portfolio (0.5)</td>
<td></td>
<td></td>
<td>Letter Grade</td>
</tr>
<tr>
<td>PRDM 7440</td>
<td>Evidence-Based Medicine &amp; Literature Eval (3)</td>
<td></td>
<td></td>
<td>Letter Grade</td>
</tr>
<tr>
<td>PRDM 7490</td>
<td>Healthcare Informatics (1)</td>
<td></td>
<td></td>
<td>Letter Grade</td>
</tr>
<tr>
<td>PRDM 7492</td>
<td>Healthcare Informatics II (1)</td>
<td></td>
<td></td>
<td>Letter Grade</td>
</tr>
<tr>
<td>PRDM 7495</td>
<td>Innovation Entrepreneurship (1)</td>
<td></td>
<td></td>
<td>Letter Grade</td>
</tr>
<tr>
<td>PRDM 7549</td>
<td>Instructional Methods/Research (1.5)</td>
<td></td>
<td></td>
<td>Letter Grade</td>
</tr>
<tr>
<td>PRDM 7601</td>
<td>Public Health (1)</td>
<td></td>
<td></td>
<td>Letter Grade</td>
</tr>
</tbody>
</table>

**Typically Offered:** Fall, Spring, Summer.

**Repeatable. Max Credits:**
- PRDM 7150: 5
- PRDM 7323: 1
- PRDM 7331: 1
- PRDM 7400: 1
- PRDM 7413: 1
- PRDM 7440: 3
- PRDM 7490: 1
- PRDM 7492: 1
- PRDM 7495: 1
- PRDM 7549: 2
- PRDM 7601: 1

**Grading Basis:**
- Letter Grade
- Pass/Fail with IP
- Repeatable
- Max Credits

**Required Prerequisites:**
- PRDM 7150, PRDM 7700, PRDM 7400, PRDM 7621, PRDM 7622, PRDM 7601.

**Course Descriptions:**

- **Medical Terminology and Lab Interpretation (0.5 Credits)**
  - This course provides a review of medical terminology and laboratory interpretation with an emphasis on US pharmacy and medical terms and abbreviations. Students will also review the top 100 medication prescribe in the United States.
  - Grading Basis: Letter Grade
  - Repeatable. Max Credits: 5.
  - Typically Offered: Fall, Spring, Summer.

- **Pharmacotherapy – Critical Care (1 Credit)**
  - This course combines pathophysiology, advanced pharmacotherapeutics management, patient assessment, and professional skills development for critical care patients. Course may include case-based, team-based learning.
  - Grading Basis: Letter Grade
  - Repeatable. Max Credits: 1.
  - Typically Offered: Fall, Spring, Summer.

- **Pharmacotherapy – Pediatrics (1 Credit)**
  - Combines pathophysiology, advanced pharmacotherapeutics management, patient assessment, and professional skills development for disorders and issues of pediatrics patients. Course may include case-based, team-based learning.
  - Grading Basis: Letter Grade
  - Repeatable. Max Credits: 1.
  - Typically Offered: Fall, Spring, Summer.

- **Drug Information Fundamentals (1 Credit)**
  - The fundamentals of practice of drug information are introduced so students can retrieve, evaluate, and utilize professional and lay information in a critical manner that enhances their practice of pharmacy, all in the context of the history and contemporary pharmacy practice.
  - Grading Basis: Letter Grade
  - Repeatable. Max Credits: 1.
  - Typically Offered: Fall, Spring, Summer.

- **Masters Drug Information Portfolio (0.5 Credits)**
  - This longitudinal portfolio is for CPM students to learn, build competence and gain experience in the application of acquired drug information knowledge. Required prerequisite: PRDM 7150, PRDM 7700 and PRDM 7400.
  - Grading Basis: Pass/Fail with IP
  - Repeatable. Max Credits: 0.5.
  - Typically Offered: Fall, Spring, Summer.

- **Evidence-Based Medicine & Literature Evaluation (3 Credits)**
  - This course provides an introduction and step-wise approach to evidence-based medicine. Knowledge gained from this course allows students to search for and understand published medical studies, research designs and statistical tests, and their application to clinical practice. Required prerequisites: PRDM 7150, PRDM 7700, PRDM 7400, PRDM 7621, PRDM 7622, PRDM 7601.
  - Grading Basis: Letter Grade
  - Repeatable. Max Credits: 3.
  - Typically Offered: Fall, Spring, Summer.

- **Healthcare Informatics (1 Credit)**
  - This course will focus on fundamentals of pharmacy informatics with an emphasis on data management, methods and medication-related applications. Prerequisite: PRDM 7150, PRDM 7490, PRDM 7700.
  - Grading Basis: Letter Grade
  - Repeatable. Max Credits: 1.
  - Typically Offered: Fall, Spring, Summer.

- **Healthcare Informatics II (1 Credit)**
  - This course will focus on fundamentals of pharmacy informatics with an emphasis on data management, methods and medication-related applications. Prerequisite: PRDM 7150, PRDM 7490, PRDM 7700.
  - Grading Basis: Letter Grade
  - Repeatable. Max Credits: 1.
  - Typically Offered: Fall, Spring, Summer.

- **Innovation Entrepreneurship (1 Credit)**
  - The goal of this course is to introduce the student to thinking differently. During the course, the learner will have the opportunity to gain an understanding and recognize their creative abilities, promote innovation in themselves and others, and demonstrate productive thinking. Upon completion the student should have a better understanding. Requisite: PRDM 7150, PRDM 7490, PRDM 7700.
  - Students eligible to enroll: M.S. Clinical Pharmacy student.
  - Grading Basis: Letter Grade
  - Repeatable. Max Credits: 1.
  - Typically Offered: Fall, Spring, Summer.

- **Instructional Methods/Research (1.5 Credits)**
  - This course is designed to advance the participant's presentation and teaching skills. It focuses on the development of essential components of formal presentations, including learning objectives, outlines, and delivery skills. Participants use a clinical question to achieve the course requirements. Required prerequisites: PRDM 7150, PRDM 7700, PRDM 7400, PRDM 7621 & PRDM 7622.
  - Grading Basis: Letter Grade
  - Repeatable. Max Credits: 1.5.
  - Typically Offered: Fall, Spring, Summer.

- **Public Health (1 Credit)**
  - This course provides an overview of the US healthcare system with insight into global health issues, their key components and their functional relationships.
  - Grading Basis: Letter Grade
  - Repeatable. Max Credits: 1.
  - Typically Offered: Fall, Spring, Summer.
Typically Offered: Fall, Spring, Summer.
Repeatable. Max Credits: 2.
Grading Basis: Letter Grade

**Pharmacotherapy III Infectious Diseases** (2 Credits)
Pharmacotherapy III – Infectious Diseases – This course combines pathophysiology, advanced pharmacotherapeutics management, basic patient assessment, and professional skills development for patients with infectious diseases.
Grading Basis: Letter Grade
Repeatable. Max Credits: 2.
Typically Offered: Fall, Spring, Summer.

**Pharmacotherapy IV Oncology** (2 Credits)
Pharmacotherapy IV- Oncology – This course combines pathophysiology, advanced pharmacotherapeutics management, basic patient assessment, and professional skills development for oncology disorders. The course incorporates the principles of active learning using lecture and interactive formats.
Grading Basis: Letter Grade
Repeatable. Max Credits: 2.
Typically Offered: Fall, Spring, Summer.

**Pharmacotherapy IV-II Bone & Connective Tissue** (0.5 Credits)
Pharmacotherapy IV-II – Bone and Connective Tissue Disorders – Combines pathophysiology, advanced pharmacotherapeutics management, patient assessment, and professional skills development for patients with bone and connective tissue disorders.
Grading Basis: Letter Grade
Repeatable. Max Credits: .5.
Typically Offered: Fall, Spring, Summer.

**Pharmacotherapy IV-Oncology** (2 Credits)
Pharmacotherapy IV- Oncology – This course combines pathophysiology, advanced pharmacotherapeutics management, basic patient assessment, and professional skills development for oncology disorders. The course incorporates the principles of active learning using lecture and interactive formats.
Grading Basis: Letter Grade
Repeatable. Max Credits: 2.
Typically Offered: Fall, Spring, Summer.

**Pharmacotherapy I – CV/Renal** (2.5 Credits)
Pharmacotherapy I – CV/Renal – This course combines pathophysiology, advanced pharmacotherapeutics management, patient assessment, and professional skills development for patients with common cardiovascular and renal disorders. Requisite: PRDM 7700
Grading Basis: Letter Grade
Repeatable. Max Credits: 2.5.
Typically Offered: Fall, Spring, Summer.

**Pharmacotherapy II – GI/Nutrition** (2.5 Credits)
Pharmacotherapy II – GI/Nutrition – Combines pathophysiology, advanced pharmacotherapeutics management, drug-specific pharmacokinetics, patient assessment, and professional skills development for patients with gastrointestinal and nutrition disorders.
Grading Basis: Letter Grade
Repeatable. Max Credits: 2.5.
Typically Offered: Fall, Spring, Summer.

**Pharmacotherapy III – Infectious Diseases** (2 Credits)
Pharmacotherapy III – Infectious Diseases – This course combines pathophysiology, advanced pharmacotherapeutics management, basic patient assessment, and professional skills development for patients with infectious diseases.
Grading Basis: Letter Grade
Repeatable. Max Credits: 2.
Typically Offered: Fall, Spring, Summer.

**Pharmacotherapy IV-II Bone & Connective Tissue** (0.5 Credits)
Pharmacotherapy IV-II – Bone and Connective Tissue Disorders – Combines pathophysiology, advanced pharmacotherapeutics management, patient assessment, and professional skills development for patients with bone and connective tissue disorders.
Grading Basis: Letter Grade
Repeatable. Max Credits: .5.
Typically Offered: Fall, Spring, Summer.

**Pharmacotherapy IV-Oncology** (2 Credits)
Pharmacotherapy IV- Oncology – This course combines pathophysiology, advanced pharmacotherapeutics management, basic patient assessment, and professional skills development for oncology disorders. The course incorporates the principles of active learning using lecture and interactive formats.
Grading Basis: Letter Grade
Repeatable. Max Credits: 2.
Typically Offered: Fall, Spring, Summer.

**Clinical Skills Foundation** (2 Credits)
Clinical Skills Foundation – This course combines three components that provide foundation for ADSM courses: 1) orientation to patient assessment and skills development; 2) pharmacokinetics and pharmacodynamics; 3) advanced disease state management for fluids, electrolytes, and acid-base disorders.
Grading Basis: Letter Grade
Repeatable. Max Credits: 2.
Typically Offered: Fall, Spring, Summer.

**Interprofessional Leadership & Development I** (0.5 Credits)
Interprofessional Leadership and Development I - Allows students to develop competencies at the novice and advanced beginner levels in teamwork and collaboration, values and ethics, and quality and safety.
Grading Basis: Pass/Fail with IP
Repeatable. Max Credits: .5.
Typically Offered: Fall, Spring, Summer.

**Interprofessional Leadership & Development II** (0.5 Credits)
Interprofessional Leadership and Development II- Continuation for students to develop competencies at the novice and advanced beginner levels in teamwork and collaboration, values and ethics, and quality and safety.
Grading Basis: Pass/Fail with IP
Repeatable. Max Credits: .5.
Typically Offered: Fall, Spring, Summer.

**Clinical Skills Foundation** (2 Credits)
Clinical Skills Foundation – This course combines three components that provide foundation for ADSM courses: 1) orientation to patient assessment and skills development; 2) pharmacokinetics and pharmacodynamics; 3) advanced disease state management for fluids, electrolytes, and acid-base disorders.
Grading Basis: Letter Grade
Repeatable. Max Credits: 2.
Typically Offered: Fall, Spring, Summer.

**Interprofessional Leadership & Development I** (0.5 Credits)
Interprofessional Leadership and Development I - Allows students to develop competencies at the novice and advanced beginner levels in teamwork and collaboration, values and ethics, and quality and safety.
Grading Basis: Pass/Fail with IP
Repeatable. Max Credits: .5.
Typically Offered: Fall, Spring, Summer.

**Interprofessional Leadership & Development II** (0.5 Credits)
Interprofessional Leadership and Development II- Continuation for students to develop competencies at the novice and advanced beginner levels in teamwork and collaboration, values and ethics, and quality and safety.
Grading Basis: Pass/Fail with IP
Repeatable. Max Credits: .5.
Typically Offered: Fall, Spring, Summer.

**Clinical Skills Foundation** (2 Credits)
Clinical Skills Foundation – This course combines three components that provide foundation for ADSM courses: 1) orientation to patient assessment and skills development; 2) pharmacokinetics and pharmacodynamics; 3) advanced disease state management for fluids, electrolytes, and acid-base disorders.
Grading Basis: Letter Grade
Repeatable. Max Credits: 2.
Typically Offered: Fall, Spring, Summer.

**Clinical Skills Foundation** (2 Credits)
Clinical Skills Foundation – This course combines three components that provide foundation for ADSM courses: 1) orientation to patient assessment and skills development; 2) pharmacokinetics and pharmacodynamics; 3) advanced disease state management for fluids, electrolytes, and acid-base disorders.
Grading Basis: Letter Grade
Repeatable. Max Credits: 2.
Typically Offered: Fall, Spring, Summer.

**Clinical Skills Foundation** (2 Credits)
Clinical Skills Foundation – This course combines three components that provide foundation for ADSM courses: 1) orientation to patient assessment and skills development; 2) pharmacokinetics and pharmacodynamics; 3) advanced disease state management for fluids, electrolytes, and acid-base disorders.
Grading Basis: Letter Grade
Repeatable. Max Credits: 2.
Typically Offered: Fall, Spring, Summer.

**Clinical Skills Foundation** (2 Credits)
Clinical Skills Foundation – This course combines three components that provide foundation for ADSM courses: 1) orientation to patient assessment and skills development; 2) pharmacokinetics and pharmacodynamics; 3) advanced disease state management for fluids, electrolytes, and acid-base disorders.
Grading Basis: Letter Grade
Repeatable. Max Credits: 2.
Typically Offered: Fall, Spring, Summer.

**Clinical Skills Foundation** (2 Credits)
Clinical Skills Foundation – This course combines three components that provide foundation for ADSM courses: 1) orientation to patient assessment and skills development; 2) pharmacokinetics and pharmacodynamics; 3) advanced disease state management for fluids, electrolytes, and acid-base disorders.
Grading Basis: Letter Grade
Repeatable. Max Credits: 2.
Typically Offered: Fall, Spring, Summer.
PRDM 7780 - Pharmacogenomics (1 Credit)
Pharmacogenomics – This course provides students with an understanding of how genetic factors influence drug disposition, response, and adverse effects. Knowledge gained from this course enhances students’ ability to apply generic information to pharmacy practice and select the most appropriate therapeutic intervention(s).
Grading Basis: Letter Grade
Repeatable. Max Credits: 1.
Typically Offered: Fall, Spring, Summer.

PRDM 7800 - Clinical Reasoning & Decision Making (2 Credits)
Clinical Reasoning & Decision Making – Designed for students to become familiar with the clinical decision making process by incorporating various skills including basic principles of drug information, clinical knowledge, systems-based or governmental policies, and payer status applying these skills to patient-specific problems. Required prerequisites: PRDM 7150, PRDM 7700, PRDM 7400, PRDM 7621, PRDM 7622, PRDM 7561, PRDM 7440.
Grading Basis: Letter Grade
Repeatable. Max Credits: 2.
Typically Offered: Fall, Spring, Summer.

PRDM 7850 - Clinical Capstone (3.5 Credits)
Clinical Capstone – This course is designed to be a capstone that integrates essential core pharmacy practice topics. The philosophy of this course is to facilitate student learning and hold students accountable for prior learning in an integrated manner using complex patient scenarios. Required prerequisites: PRDM 7150, PRDM 7700, PRDM 7400, PRDM 7621, PRDM 7622, PRDM 7561, PRDM 7440, PRDM 7800.
Grading Basis: Letter Grade
Repeatable. Max Credits: 3.5.
Typically Offered: Fall, Spring, Summer.

PRDM 7851 - Clinical Capstone (3.5 Credits)
Clinical Capstone – This course is designed to be a capstone that integrates essential core pharmacy practice topics. The philosophy of this course is to facilitate student learning and hold students accountable for prior learning in an integrated manner using complex patient scenarios. Required prerequisites: PRDM 7150, PRDM 7700, PRDM 7400, PRDM 7621, PRDM 7622, PRDM 7561, PRDM 7440, PRDM 7800.
Grading Basis: Letter Grade
Repeatable. Max Credits: 3.5.
Typically Offered: Fall, Spring, Summer.

PRDM 7913 - Professional Skills Portfolio (0.5 Credits)
Professional Skills Portfolio – Longitudinal portfolio. Students will document specific skills, assignments and other activities completed in their local workplace setting that demonstrate achievement of each of the above. Students will reflect on their learning, providing insight into successes and where further improvement is needed. Required prerequisites: PRDM 7150, PRDM 7700 and PRDM 7400
Grading Basis: Pass/Fail with IP
Repeatable. Max Credits: .5.
Typically Offered: Fall, Spring, Summer.

PRDM 8000 - CPM Capstone Thesis (3 Credits)
CPM Capstone Thesis – It is an experiential project to enhance patient-centered pharmacy care (i.e., clinical pharmacy) awareness, engagement, and practice or to address a problem in the student’s real-world or work setting. This course will familiarize students with the various types of Capstone Thesis projects they can undertake. Required prerequisites: PRDM 7150, PRDM 7700, PRDM 7400, PRDM 7621, PRDM 7622, PRDM 7561, PRDM 7440, PRDM 7800, PRDM 7851.
Grading Basis: Letter Grade
Repeatable. Max Credits: 3.
Additional Information: Report as Full Time.
Typically Offered: Fall, Spring, Summer.

PRDM 8001 - MS Clin Pharm Capstone Thesis Foundations (0.5 Credits)
This course provides fundamentals in research and clinical pharmacy project types, allowing students to choose a topic, then plan and execute that project. The course requires successful live presentation of project proposal. It serves as a prerequisite to the longitudinal project course, to be completed throughout the program. Required pre- or co-requisites: PRDM 7400 Drug Information Fundamentals and PRDM 7440 Evidence-based medicine
Grading Basis: Letter Grade with IP
Repeatable. Max Credits: .5.
Typically Offered: Fall, Spring, Summer.

PRDM 8002 - MS Clin Pharm Capstone Thesis Project (2.5 Credits)
This course requires completion of a clinical pharmacy thesis project, whose topic and plan must be approved in PRDM 8001. It is designed to provide patient-centered pharmacy care and is completed during the student’s time in the MS Clin Pharmacy program. Successful completion includes a poster, live presentation and a manuscript. Required pre-requisites: PRDM 8001 MS Thesis Project Foundations
Grading Basis: Letter Grade with IP
Repeatable. Max Credits: 2.5.
Additional Information: Report as Full Time.
Typically Offered: Fall, Spring, Summer.