# PHARMACEUTICAL BIOCHEMISTRY (M.S.)

For details about this program, including program description, admission requirements, and contact information, click here [here](https://www.montclair.edu/graduate/programs-of-study/pharmaceutical-biochemistry-ms/).

## Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Core Courses</strong></td>
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<tr>
<td>CHEM 570</td>
<td>Advanced Biochemistry</td>
<td>3</td>
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<tr>
<td>CHEM 575</td>
<td>Enzyme Kinetics and Mechanisms</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 579</td>
<td>Biomolecular Assay Development</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 582</td>
<td>Biochemical Pharmacology</td>
<td>3</td>
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**Electives and Research**

**Electives**

Select 18 credits from the following with no more than 6 credits in Biology:

- BIOL 505 Experimental Cell Culture
- BIOL 512 Special Topics in Modern Genetics
- BIOL 547 Molecular Biology I
- BIOL 548 Molecular Biology II
- BIOL 594 Signal Transduction
- BIOL 598 Selected Techniques in Molecular Biology
- CHEM 525 Bioinorganic Chemistry
- CHEM 530 Advanced Organic Chemistry
- CHEM 538 Drug Design in Medicinal Chemistry
- CHEM 560 Advanced Analytical Chemistry
- CHEM 574 Protein Structure
- CHEM 577 Nucleic Acid Biochemistry
- CHEM 578 Biochemistry Laboratory Techniques

**Research Options**

Select either the Graduate Literature Search or the Research & Thesis option:

- **Graduate Literature Search**
  - CHEM 598 Graduate Literature Search
  - CHEM 599 Graduate Seminar

- **Research & Thesis**
  - CHEM 595 Graduate Research
  - CHEM 698 Master's Thesis

Submit the completed Thesis original and one copy to the Graduate Office. See Thesis Guidelines for details.

**Culminating Experience**

Make a seminar presentation in conjunction with Research option. Graduate School must be notified when complete.

**Total Credits**

32

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1 Or 14 credits if completing Thesis.