MOLECULAR AND CELLULAR PHARMACOLOGY, PH.D.

REQUIREMENTS

MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum academic progress and degree requirements (http://guide.wisc.edu/graduate/#policiesandrequirementstext), in addition to the program requirements listed below.

MAJOR REQUIREMENTS

MODE OF INSTRUCTION

<table>
<thead>
<tr>
<th></th>
<th>Face to Face</th>
<th>Evening/Weekend</th>
<th>Online</th>
<th>Hybrid</th>
<th>Accelerated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
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</table>

Mode of Instruction Definitions

Accelerated: Accelerated programs are offered at a fast pace that condenses the time to completion. Students are able to complete a program with minimal disruptions to careers and other commitments.

Evening/Weekend: Courses meet on the UW–Madison campus only in evenings and/or on weekends to accommodate typical business schedules. Students have the advantages of face-to-face courses with the flexibility to keep work and other life commitments.

Face-to-Face: Courses typically meet during weekdays on the UW–Madison Campus.

Hybrid: These programs combine face-to-face and online learning formats. Contact the program for more specific information.

Online: These programs are offered 100% online. Some programs may require an on-campus orientation or residency experience, but the courses will be facilitated in an online format.

CURRICULAR REQUIREMENTS

Requirements | Detail | Minimum | 51 credits |
|--------------|--------|---------|------------|

Credit Requirement

Minimum Credit Requirement | 32 credits |

Minimum Residence Credit Requirement | Half of degree coursework (26 credits out of 51 total credits) must be completed graduate-level coursework. Details can be found in the Graduate School's Minimum Graduate Coursework (50%) policy (https://policy.wisc.edu/library/UW-1244 (https://policy.wisc.edu/library/UW-1244/)). |

Overall Graduate GPA Requirement | 3.00 GPA required. |

Other Grade Requirements

The Graduate School requires an average grade of B or better in all coursework (300 or above, not including research credits) taken as a graduate student unless conditions for probationary status require higher grades. Grades of Incomplete are considered to be unsatisfactory if they are not removed during the next enrolled semester.

Assessments and Examinations

Doctoral students are required to take a comprehensive preliminary/oral examination after they have cleared their record of all Incomplete and Progress grades (other than research and thesis). Deposit of the doctoral dissertation in the Graduate School is required.

Language Requirements

Contact the program for information on any language requirements.

Doctoral Minor/Breadth Requirements

Doctoral students are not required to complete a minor, but may do so if they wish.

REQUIRED COURSES

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHMCOL-M 781</td>
<td>Molecular and Cellular Principles in Pharmacology</td>
<td>4</td>
</tr>
<tr>
<td>PHMCOL-M/BIOCHEM/ZOOLOGY 630</td>
<td>Cellular Signal Transduction Mechanisms</td>
<td>3</td>
</tr>
<tr>
<td>PHMCOL-M 739</td>
<td>Rigor, Reproducibility and Becoming an Effective Research</td>
<td>1</td>
</tr>
<tr>
<td>STAT/F&amp;W ECOL/HORT 571</td>
<td>Statistical Methods for Bioscience I</td>
<td>4</td>
</tr>
<tr>
<td>OBS&amp;GYN 955</td>
<td>Responsible Conduct of Research for Biomedical Graduate Students</td>
<td>2</td>
</tr>
</tbody>
</table>

Research & Seminar

PHMCOL-M 901 Seminar and Journal Club 1
PHMCOL-M 990 Research 2

1 Students are required to take 1 credit of seminar each fall and spring semester during enrollment as a graduate student in the program.

2 Students must take research credits every semester at least until they meet a minimum of 51 credits. Credits will vary.