This is a named option in the Pharmaceutical Sciences M.S. (http://guide.wisc.edu/graduate/pharmacy-school-wide/pharmaceutical-sciences-ms/)

Are you a STEM major who is interested in a career in the biopharmaceutical industry? The Division of Pharmaceutical Sciences (https://pharmacy.wisc.edu/psd/) at the School of Pharmacy offers the Master of Science (MS) in Pharmaceutical Sciences degree named option “Applied Drug Development.” The program provides a rigorous background in a range of disciplines that are critical to the success of the next generation of pharmaceutical scientists. The program’s accelerated one-year applied training combines relevant aspects of drug development with hands-on laboratories culminating with a capstone internship.

**Science:** The pharmaceutical sciences are emphasized in courses that cover literature comprehension, biostatistics, pharmacokinetics and pharmacodynamics, pharmacology and instrumentation methods.

**Pharmaceutical Industry:** Industry-specific content is covered in courses that describe regulatory practice, the drug development process, working in a regulated environment (GxP) and pharmaceutical economics and management.

**Project-Based Internship:** This 4-credit course provides the opportunity for students to utilize all the components of the program as they work in a relevant internship position.

This degree was crafted with extensive input from the biopharmaceutical industry. The faculty are a mix of experts from industry and academia. This program may be completed in one calendar year (September–August) or at a slower pace.

**ADMISSIONS**

Please consult the table below for key information about this degree program’s admissions requirements. The program may have more detailed admissions requirements, which can be found below the table or on the program’s website.

Graduate admissions is a two-step process between academic programs and the Graduate School. Applicants must meet the minimum requirements (https://grad.wisc.edu/apply/requirements/) of the Graduate School as well as the program(s). Once you have researched the graduate program(s) you are interested in, apply online (https://grad.wisc.edu/apply/).

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Deadline</td>
<td>June 30</td>
</tr>
<tr>
<td>Spring Deadline</td>
<td>October 31</td>
</tr>
<tr>
<td>Summer Deadline</td>
<td>The program does not admit for the summer term.</td>
</tr>
</tbody>
</table>

**GRE (Graduate Record Examinations)**

Not required but may be considered if available.

**English Proficiency Test**

Every applicant whose native language is not English or whose undergraduate instruction was not in English must provide an English proficiency test score and meet the Graduate School minimum requirements (https://grad.wisc.edu/apply/requirements/#english-proficiency).

**Other Test(s) (e.g., GMAT, MCAT)**

n/a

**Letters of Recommendation**

Required

2

Accepted students commonly have strong scientific backgrounds and a desire to work in the biopharmaceutical industry. Students with undergraduate degrees in the physical or biological sciences, engineering, pharmacy, and related fields are encouraged to apply. Applicants without a bachelor’s degree may still be considered for admittance with an earned Doctor of Pharmacy or other professional graduate degree.

Please see the “Apply Now” section of the program website (https://pharmacy.wisc.edu/academics/applied-drug-development/) for the application deadline and required supplemental materials.

**FUNDING**

**GRADUATE SCHOOL RESOURCES**

Resources to help you afford graduate study might include assistantships, fellowships, traineeships, and financial aid. Further funding information (https://grad.wisc.edu/funding/) is available from the Graduate School. Be sure to check with your program for individual policies and restrictions related to funding.

**PROGRAM INFORMATION**

Students enrolled in this program are not eligible to receive tuition remission from graduate assistantship appointments at this institution.

Students may contact the Office of Student Financial Aid (https://financialaid.wisc.edu/) to discuss federal loan programs and other lending opportunities.

**REQUIREMENTS**

**MINIMUM GRADUATE SCHOOL REQUIREMENTS**

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

MODE OF INSTRUCTION

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

Mode of Instruction Definitions

Accelerated: Accelerated programs are offered at a fast pace that condenses the time to completion. Students typically take enough credits aimed at completing the program in a year or two.

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

<table>
<thead>
<tr>
<th>Requirement Detail</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Credit Requirement</td>
<td>30 credits</td>
</tr>
<tr>
<td>Minimum Residence Credit Requirement</td>
<td>16 credits</td>
</tr>
<tr>
<td>Minimum Graduate Coursework Requirement</td>
<td>15 credits must be graduate-level coursework. Details can be found in the Graduate School’s Minimum Graduate Coursework (50%) policy (<a href="https://policy.wisc.edu/library/UW-1244/">https://policy.wisc.edu/library/UW-1244/</a>).</td>
</tr>
<tr>
<td>Overall GPA Requirement</td>
<td>3.00 GPA required. This program follows the Graduate School’s policy: <a href="https://policy.wisc.edu/library/UW-1203/">https://policy.wisc.edu/library/UW-1203/</a>.)</td>
</tr>
<tr>
<td>Other Grade Requirements</td>
<td>Candidates will be dropped from the program if they receive more than 7 credits of grades at the BC level or lower.</td>
</tr>
<tr>
<td>assessments and examinations</td>
<td>The program expects the M.S. candidate to complete a project-based internship (summative research internship) under guidance of an approved mentor or an approved research project.</td>
</tr>
<tr>
<td>Language Requirements</td>
<td>No language requirements.</td>
</tr>
</tbody>
</table>

REQUIRED COURSES

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHM SCI 750</td>
<td>The Drug Development Process</td>
<td>3</td>
</tr>
<tr>
<td>PHM SCI 751</td>
<td>Introduction to Regulatory Practice</td>
<td>3</td>
</tr>
</tbody>
</table>
**UW–Madison University Special**
With program approval, the program will allow up to 12 credits taken as a special student in the Applied Drug Development Capstone Certificate to count toward the MS–Pharmaceutical Sciences–Applied Drug Development named option. Coursework earned five or more years prior to admission to a master’s degree is not allowed to satisfy requirements.

**PROBATION**
This program follows the Graduate School’s Probation policy. (https://policy.wisc.edu/library/UW-1217/)

**ADVISOR / COMMITTEE**
Students will be assigned an advisor within the program; students will have an approved mentor for their summative internship project.

**CREDITS PER TERM ALLOWED**
15 credits

**TIME LIMITS**
This program follows the Graduate School’s Time Limits policy. (https://policy.wisc.edu/library/UW-1221/)

**GRIEVANCES AND APPEALS**
These resources may be helpful in addressing your concerns:

- Bias or Hate Reporting (https://doso.students.wisc.edu/bias-or-hate-reporting/)
- Graduate Assistantship Policies and Procedures (https://hr.wisc.edu/policies/gapp/#grievance-procedure)
- Hostile and Intimidating Behavior Policies and Procedures (https://hr.wisc.edu/hib/)
  - Office of the Provost for Faculty and Staff Affairs (https://fascarstaff.provost.wisc.edu/)
  - Dean of Students Office (https://doso.students.wisc.edu/) (for all students to seek grievance assistance and support)
- Employee Assistance (http://www.eao.wisc.edu/) (for personal counseling and workplace consultation around communication and conflict involving graduate assistants and other employees, post-doctoral students, faculty and staff)
- Employee Disability Resource Office (https://employeedisabilities.wisc.edu/) (for qualified employees or applicants with disabilities to have equal employment opportunities)
- Graduate School (https://grad.wisc.edu/) (for informal advice at any level of review and for official appeals of program/departmental or school/college grievance decisions)
- Office of Compliance (https://compliance.wisc.edu/) (for class harassment and discrimination, including sexual harassment and sexual violence)
- Office of Student Conduct and Community Standards (https://conduct.students.wisc.edu/) (for conflicts involving students)
- Ombuds Office for Faculty and Staff (http://www.ombuds.wisc.edu/) (for employed graduate students and post-docs, as well as faculty and staff)
- Title IX (https://compliance.wisc.edu/titleix/) (for concerns about discrimination)

**Grievance Policy for Graduate Programs in the School of Pharmacy**
Any student in a School of Pharmacy graduate program who feels that they have been treated unfairly by a faculty member, staff member, postdoc, or student has the right to have a complaint heard about the treatment and to receive a prompt hearing of the grievance, following these grievance procedures. Any student who discusses, inquires about, or participates in the grievance procedure may do so openly and shall not be subject to intimidation, discipline, or retaliation because of such activity. The person whom the complaint is directed against must be an employee of the School of Pharmacy. Any student or potential student may use these procedures unless the complaint is covered by other campus rules or contracts.

**Exclusions**
This policy does not apply to employment-related issues for Graduate Assistants in TA, PA and/or RA appointments. Graduate Assistants will utilize the Graduate Assistantship Policies and Procedures (https://hr.wisc.edu/policies/gapp/) (GAPP) grievance process to resolve employment-related issues.

**Requirements for Programs**
The School of Pharmacy requires that each director of graduate studies (DGS) serve as a grievance advisor for the school. The program must notify students of the grievance advisors, including posting the grievance advisor’s names in the program handbook. The student will be able to select the grievance advisor of the student’s choice and does not need to use the grievance advisor from the student’s program.

A grievance advisor may be approached for possible grievances of all types. They will spearhead the grievance response process described below for issues specific to the graduate program, including but not limited to academic standing, progress to degree, professional activities, appropriate advising, and a program’s community standards. They will ensure students are advised on reporting procedures for other types of possible grievances and are supported throughout the reporting process. Resources (https://grad.wisc.edu/current-students/#reporting-incidents) on identifying and reporting other issues have been compiled by the Graduate School.

**Procedures**

1. The student is advised to initiate a written record containing dates, times, persons, and description of activities, and to update this record while completing the procedures described below.
2. If the student is comfortable doing so, efforts should be made to resolve complaints informally between individuals before pursuing a formal grievance. If students would like to seek guidance at this informal step, the student can contact the Assistant Dean of Diversity, Equity, and Inclusion, the DGS for the student’s program, or the UW Ombuds Office.
3. Should a satisfactory resolution not be achieved AND the complaint does not involve an academic program, the procedure outlined in Step 6 below should be followed. Should a satisfactory resolution not be achieved in step 2, the student should contact an SOP grievance advisor of one’s choice to discuss the complaint. The grievance advisor should keep a record of contacts with regards to possible grievances. The first attempt is to help the student informally address the complaint prior to pursuing a formal grievance and should occur within 10 days of notifying the grievance advisor. The student is also encouraged to talk with their faculty advisor regarding concerns or difficulties.
4. If the issue is not resolved to the student’s satisfaction, the student may submit a formal grievance to the grievance advisor in writing, within 60 calendar days from the date the grievant first became aware
of, or should have become aware of with the exercise of reasonable
diligence, the cause of the grievance. To the fullest extent possible, a
grievance shall contain a clear and concise statement of the grievance
and indicate the issue(s) involved including individuals, the relief
sought, the date(s) the incident or violation took place, and any
specific policy involved.

5. On receipt of a written grievance, the following steps will occur.
The final step must be completed within 30 working days from the
date the formal written grievance was received. The program must
store documentation of the grievance for seven years. Significant
grievances that set a precedent may be stored indefinitely.
   a. The grievance advisor will convene a SOP faculty committee with
      at least 3 members to facilitate the grievance following step b,
      c, and d. The grievance advisor assumes the role of coordinator.
      Any faculty member involved in the grievance or who feels that
      they cannot be impartial may not participate in the committee.
      Committee composition will include at least one member from
      outside the student’s home program.
   b. The faculty committee, through the grievance advisor, will obtain
      a written response from the person or persons toward whom
      the grievance is directed. The grievance advisor will inform this
      person that their response will be shared with the student filing the
      grievance.
   c. The grievance advisor will share the response with the student
      filing the grievance.
   d. The faculty committee will make a decision regarding the
      grievance. The committee’s review shall be fair, impartial, and
      timely. The grievance advisor will report on the action taken by the
      committee in writing to both the student and the person toward
      whom the grievance was directed.

6. If either party (the student or the person or persons toward whom
   the grievance is directed) is unsatisfied with the decision of the program’s
   faculty committee, the party may file a written appeal to the SOP
   Associate Dean for Research and Graduate Education within 10
   working days from the date of notification of the program’s faculty
   committee. The following steps will occur:
   a. The grievant will be notified in writing, within 5 business days of
      the written appeal, acknowledging receipt of the formal appeal
      and establishing a timeline for the review to be completed.
   b. The associate dean or their designee may request additional
      materials and/or arrange meetings with the grievant and/or
      others. If meetings occur, the associate dean or their designee
      will meet with both the grievant and the person or persons toward
      whom the grievance is directed.
   c. The associate dean or their designee will make a final
      decision within 20 working days of receipt of the committee’s
      recommendation.
   d. The SOP Associate Dean for Research and Graduate Education
      must store documentation of the grievance for seven years.
      Significant grievances that set a precedent may be stored
      indefinitely.

7. The student may file an appeal of the School of Pharmacy decision
   with the Graduate School. See the Grievances and Appeals section
   of the Graduate School’s Academic Policies and Procedures (https://
   grad.wisc.edu/documents/grievances-and-appeals/).