

# PHARMACEUTICAL SCIENCES: APPLIED DRUG DEVELOPMENT, MS

## REQUIREMENTS

### MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum degree requirements (<https://guide.wisc.edu/graduate/#requirementstext>) and policies (<https://guide.wisc.edu/graduate/#policiestext>), in addition to the program requirements listed below.

### NAMED OPTION REQUIREMENTS MODE OF INSTRUCTION

Face to Face	Evening/ Weekend	Online	Hybrid	Accelerated
Yes	No	Yes	Yes	Yes

#### 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

#### Requirement Detail

Minimum Credit Requirement 30 credits

Minimum Residence Credit Requirement 16 credits

Minimum Graduate Coursework Requirement 15 credits must be graduate-level coursework. Refer to the Graduate School: Minimum Graduate Coursework (50%) Requirement policy: <https://policy.wisc.edu/library/UW-1244> (<https://policy.wisc.edu/library/UW-1244/>).

Overall 3.00 GPA required.  
Graduate GPA Requirement Refer to the Graduate School: Grade Point Average (GPA) Requirement policy: <https://policy.wisc.edu/library/UW-1203> (<https://policy.wisc.edu/library/UW-1203/>).

Other Grade Requirements Candidates will be dropped from the program if they receive more than 7 credits of grades at the BC level or lower.

Assessments and Examinations The program expects the MS candidate to complete a project-based fieldwork (summative research internship) under guidance of an approved mentor or an approved research project.

Language Requirements No language requirements.

### REQUIRED COURSES

Code	Title	Credits
<b>Core</b>		
PHM SCI 762	The Drug Development Process from Discovery to Investigational New Drug Application (IND)	3
PHM SCI 763	The Drug Development Process from FIH to BLA/NDA	3
PHM SCI 751	Introduction to Regulatory Practice	3
PHM SCI 752	GxP (Good Practice): Working in a Regulated Environment	3
PHM SCI 753	Project Management in Drug Development	3
PHM SCI 759	Current Trends in Drug Discovery and Development	1
PHM SCI 760	Summative Research Internship	4
B M I/STAT 541	Introduction to Biostatistics	3
<b>Core Options</b>		
Complete one of the following:		1-4
PHARMACY 770 & PHARMACY 771	CNS Drug Designs, Actions, and Applications I and CNS Drug Designs, Actions, and Applications II	
PHM SCI 761	Introduction to Pharmacology	
<b>Elective Courses</b>		
Complete from the following to satisfy minimum credit requirement:		6
PHM SCI 754	Business Tools for Pharmaceutical Scientists	
PHM SCI 755	Laboratory and Instrumentation Methods	
PHM SCI 756	Introduction to Data Analyses in Drug Development	
PHM SCI 768	Pharmacokinetics	

**Total Credits 30**

While the program offers an accelerated 1-year path, students may also choose a 2- or 3-year path. Students may choose a degree path consisting of all online courses or a degree path consisting of a mix of online, in-person, and hybrid courses.

Students in this program may not take courses outside the prescribed curriculum without faculty advisor and program director approval.

Students in this program cannot enroll concurrently in other undergraduate or graduate degree programs.