PHARMACEUTICAL SCIENCES, PHD

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

MAJOR REQUIREMENTS MODE OF INSTRUCTION

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

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.

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CURRICULAR REQUIREMENTS				
Requirement Detail				
Minimum Credit Requirement	51 credits			
Minimum Residence Credit Requirement	32 credits			
Minimum Graduate Coursework Requirement	26 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 Graduate GPA Requirement	3.00 GPA required. 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/).			

lower. This applies to formal courses and research credits. Assessments The preliminary examination is expected to be completed before the beginning of the third year of graduate study. Examinations For specifics regarding the preliminary examination's structure and requirements, see Preliminary Examination in the Pharmaceutical Sciences Division Student Handbook (https://students.pharmacy.wisc.edu/pharmsci-handbook/ o-preliminary-exam (https://students.pharmacy.wisc.edu/ pharmsci-handbook/o-preliminary-exam/)/). A final oral defense of the dissertation is required; for more on the dissertation defense, see PhD Thesis Defense in the Pharmaceutical Sciences Division Student Handbook (https://students.pharmacy.wisc.edu/ pharmsci-handbook/q-phd-thesis-defense (https:// students.pharmacy.wisc.edu/pharmsci-handbook/q-phdthesis-defense/)/). Language There are no language requirements in the Pharmaceutical Requirements Sciences PhD program. Graduate A doctoral minor or graduate/professional certificate is not School required. Breadth Requirement

Other Grade Candidates may be dropped from the program if they

Requirements receive more than 7 credits of grades at the BC level or

REQUIRED COURSES

Code	Title	Credits		
Foundational Content				
PHM SCI 780	Principles of Pharmaceutical Sciences	3		
Core Areas		6		
Students must select Core Areas (minimum	at least 3 credits from two different of credits).			
Drug Discovery Core:				
PHM SCI 786	Natural Product Synthesis, Biosynthesis and Drug Discovery			
Drug Action Core:				
PATH 750 & PATH 752	Cellular and Molecular Biology/ Pathology and Cellular and Molecular Biology/ Pathology Seminar			
PHMCOL-M 781	Molecular and Cellular Principles in Pharmacology			
Drug Delivery Core:				
PHM SCI/ CHEM 766	Molecular Recognition			
PHM SCI 773	Molecular Solids			
PHM SCI 775	Polymeric Drug Delivery			
Research ethics/Re	esponsible conduct of research			
PHARMACY 800	Research Ethics: Scientific Integrity and the Responsible Conduct of Research	2		
Seminar & Research	37			

PHM SCI 931	Pharmaceutical Sciences Seminar (required every fall term during enrollment as a graduate student in the program)
PHM SCI 932	Pharmaceutical Sciences Seminar (required every fall term during enrollment as a graduate student in the program)
PHM SCI 990	Research (usually every semester starting in second semester. Credits vay.)
PHM SCI 999	Advanced Independent Study (Rotations during first semester in first year - minimum 1 credit)

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Additional credits from the Drug Action, Drug Delivery, or Drug Discovery electives

Courses approved by the student's advisor that have the graduate attribute in the following subject listings may be appropriate: ANATOMY, ANAT&PHYS, BIOCHEM, BSE, BIOLOGY, B M E, BMOLCHEM, B M I, BOTANY, CRB, CBE, CHEM, COMP BIO, COMP SCI, E C E, E P, FAM MED, FOOD SCI, GENETICS, HONCOL, I SY E, MS & E, MATH, MD GENET, M M & I, MED PHYS, MED SC-M, MED SC-V, MEDICINE, MICROBIO, M&ENVTOX, MOL BIOL, NEUROL, NEURODPT, NTP, NURSING, NUTR SCI, ONCOLOGY, PATH-BIO, PATH, PHM SCI, PHMCOL-M, PHYSICS, PL PATH, PSYCH, RADIOL, SOIL SCI, SURGERY, SURG SCI, ZOOLOGY. A list of popular elective courses at this level taken by recent Pharmaceutical Sciences graduate students is maintained at https:// pharmacy.wisc.edu/programs/pharmsci/curriculum/ electives (https://pharmacy.wisc.edu/programs/pharmsci/

curriculum/electives/)/.

Total Credits 5

To enhance a required core curriculum, an individualized course of study is planned with a faculty advisor. Faculty advisors have the option to require additional courses beyond the minimum requirements listed above.