CELLULAR AND MOLECULAR PATHOLOGY, 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.

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.

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 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/).
Other Grade Requirements	Students must maintain a B average or better in all graduate courses.
Assessments and Examinations	Students must write a master thesis and defend it in front of their Advisory Committee. The MS thesis does not need to be published.
Language Requirements	No language requirements.

REQUIRED COURSES

Code	Title	Credits
Continuous Enrollment		
Students must be continously enrolled in the following courses.		
PATH 900	Seminar (every semester enrolled)	0
PATH 901	Student Seminar / Journal Club (every semester enrolled)	1
PATH 990	Research (every semester enrolled)	1-8
Coursework		
Students must complete the following courses.		
PATH 750	Cellular and Molecular Biology/ Pathology (spring semester, first year in program)	2
PATH 752	Cellular and Molecular Biology/ Pathology Seminar (spring semester, first year in program)	1
PATH 802	Histopathology for Translational Scientists (fall semester, first year in program)	3
PATH 803	Pathogenesis of Major Human Diseases (fall semester, second year in program)	3
PATH 809	Molecular Mechanisms of Disease (spring semester, second year in program)	2
Ethics		
Students must complete the following Ethics courses:		
PATH 755	Responsible Conduct in Research: Research Ethics, Rigor, Reproducibility and Transparency	2
OBS&GYN 956	Advanced Responsible Conduct of Research for Biomedical Students	1
Electives		**2-3**
Within the 16 required credits, students will take one elective course. This course is chosen by the student and the PhD thesis committee. The goal of the elective course is for students to acquire additional broad knowledge in either pathology or their major area of research. For the elective course, students may take one of the following:		
PATH 751	Biology of Aging	
PATH 807	Immunopathology: The Immune System in Health and Disease	

Equivalent course approved by the PhD thesis committee	
Total Credits	**30**

ETHICS

Students are required to take two ethics courses, receiving instruction in the Responsible Conduct of Research (RCR), as stated below by the NIH. Students complete PATH 755 during the first semester of the first year and OBS&GYN 956 during the second semester of the third year.

"The NIH requires that all undergraduate and graduate students as well as postdoctoral fellows receiving support through any NIH training, career development award, research education grant, or dissertation research grant must receive instruction in RCR. At least eight hours of face-to-face instruction is required; online education alone is insufficient. Instruction must be undertaken at least once during each career stage, and no less than once every four years."