

CELLULAR AND MOLECULAR PATHOLOGY, M.S.

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.

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 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 Credit Requirement 30 credits

Minimum Residence Credit Requirement 16 credits

Minimum Graduate Coursework Requirement Half of degree coursework (16 credits out of 30 total credits) must be completed graduate-level coursework; courses with the Graduate Level Coursework attribute are identified and searchable in the university's Course Guide (<https://registrar.wisc.edu/course-guide> (<https://registrar.wisc.edu/course-guide/>)).

Overall Graduate GPA Requirement 3.00 GPA required.

Other Grade Requirements Students must maintain a B average or better in all graduate courses.

Assessments and Examinations Students must complete all required courses including and PATH 809. Students must write a master thesis and defend it in front of their Advisory Committee. The M.S. thesis does not need to be published.

Language Requirements No language requirements.

REQUIRED COURSES

Code	Title	Credits
Required Courses		
<i>Continuous Enrollment</i>		
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
<i>Coursework</i>		
PATH 750	Cellular and Molecular Biology/ Pathology (spring semester, first year in program)	3
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
Choose one of the following Statistics courses:		4
STAT/F&W ECOL/ HORT 571	Statistical Methods for Bioscience I	
STAT/F&W ECOL/ HORT 572	Statistical Methods for Bioscience II	
Choose one of the following Ethics courses: ¹		
ONCOLOGY 675	Advanced or Special Topics in Cancer Research (Topic: Appropriate Conduct of Science)	
SURG SCI 812	Research Ethics and Career Development	
OBS&GYN 955	Responsible Conduct of Research for Biomedical Graduate Students	
Elective Courses		
Within the 16 required credits, students will take one elective course. This course is chosen by the student and the Ph.D. 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	Cell and Molecular Biology of Aging	
PATH 807	Immunopathology: The Immune System in Health and Disease	
Equivalent course approved by the Ph.D. thesis committee		

Required Courses

Coursework

Elective Courses

¹ Students in the CMP program are required to take an ethics course and receive instruction in the Responsible Conduct of Research (RCR), as stated below by the NIH:

"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."