CELLULAR AND MOLECULAR PATHOLOGY, PH.D.

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 listed below.

MAJOR 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>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Requirements Detail</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Credit Requirement</td>
<td>51 credits</td>
</tr>
<tr>
<td>Minimum Residence Credit Requirement</td>
<td>32 credits</td>
</tr>
<tr>
<td>Minimum Graduate Coursework Requirement</td>
<td>Half of degree coursework (26 credits out of 51 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.</td>
</tr>
<tr>
<td>Overall Graduate GPA Requirement</td>
<td>3.00 GPA required.</td>
</tr>
<tr>
<td>Other Grade Requirements</td>
<td>Students must maintain a B average or better in all graduate courses.</td>
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</table>

Assessments and Examinations

- Students must complete all required courses including PATH 809. They must pass their Prelim B exam after their second year of graduate school. Students must defend their Ph.D. thesis within five years of completion of Prelim Exam B.

Language Requirements

- No language requirements.

Doctoral Minor/Breadth

- For interdisciplinary or minor requirements, see [http://www.cmp.wisc.edu/current/phd-interdisciplinary-minor/](http://www.cmp.wisc.edu/current/phd-interdisciplinary-minor/).

REQUIRED COURSES

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PATH 900</td>
<td>Seminar (every semester enrolled)</td>
<td>0</td>
</tr>
<tr>
<td>PATH 901</td>
<td>Student Seminar / Journal Club (every semester enrolled)</td>
<td>1</td>
</tr>
<tr>
<td>PATH 990</td>
<td>Research (every semester enrolled)</td>
<td>1-8</td>
</tr>
</tbody>
</table>

Coursework

- 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:

- STAT/F&W ECOL/HORT 571 | Statistical Methods for Bioscience I | 4 |
- STAT/F&W ECOL/HORT 572 | Statistical Methods for Bioscience II |

Choose one of the following Ethics courses:

- 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 |
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.”