

BIOCHEMISTRY, DOCTOR OF PHILOSOPHY (PH.D.)

Doctoral students are required to complete 21 credits of coursework, with 19 credits completed by the end of the fourth semester.

Advance to Candidacy: In addition to the coursework below, students must pass an oral defense of a written research proposal, presentation of a seminar, complete an independent research proposal.

Post-Candidacy: Students must complete 12 credits of BCHM899 Doctoral Dissertation Research and successfully defend a publication-quality dissertation that advances the field.

| Course | Title | Credits |
|--|---|-----------|
| Core Requirements | | |
| BCHM671 | Protein Chemistry and Enzymic Catalysis | 3 |
| BCHM675 | Biophysical Chemistry | 3 |
| BCHM661 | Nucleic Acids I | 2 |
| BCHM662 | Nucleic Acids II | 2 |
| BCHM699 | Special Problems in Biochemistry | 2 |
| BCHM677 | Computational Tools in Biochemistry | 1 |
| BCHM889 | Seminar | 2 |
| BCHM698 | Literature Seminar in Biochemistry | 2 |
| Electives with advisor approval (minimum of 4 credits) | | 4 |
| Dissertation Research Requirements | | |
| BCHM899 | Doctoral Dissertation Research | 12 |
| Total Credits | | 33 |

Specific regulations are available from the Department of Chemistry and Biochemistry or from: www.chem.umd.edu/graduateprogram/phdinbiochemistry/ (<http://www.chem.umd.edu/graduateprogram/phdinbiochemistry/>)