**BIOCHEMISTRY AND MOLECULAR BIOLOGY, MS**

Requirements for Students Matriculating in or before Academic Year 2023-2024. Learn more about Graduate College Academic Regulation 7.0 (http://catalog.okstate.edu/graduate-college/#70).

## Thesis Option

**Total Hours:** 30

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td></td>
<td>Coursework</td>
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<td>Combination of core courses and other requirements to equal 24 hours.</td>
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### Required Core Courses

- BIOC 5002 Research Compliance and Biochemistry Graduate Colloquium
- BIOC 5112 Articulation of Research Logic
- BIOC 5120 Biochemistry and Molecular Biology Graduate Research Colloquium
- BIOC 5753 Biochemical Principles
- BIOC 5853 Molecular and Integrative Metabolism
- BIOC 5930 Advanced Biochemical Techniques
- BIOC 6110 Seminar
- Plus 2 Advanced (Biochemistry 6000-level courses)
- BIOC 6723 Signal Transduction
- BIOC 6733 Functional Genomics
- BIOC 6740 Physical Biochemistry
- BIOC 6753 Epigenetics
- BIOC 6763 Nucleic Acids and Protein Synthesis
- BIOC 6773 Protein Structure and Enzyme Function
- BIOC 6783 Biomembranes and Bioenergetics
- BIOC 6793 Plant Biochemistry

### Electives

- BIOC 5723 Introduction to Bioinformatics
- BIOC 5102 Molecular Genetics
- BIOC 5824 Biochemical Laboratory Methods
- BIOC 5930 Advanced Biochemical Techniques
- BIOC 6820 Selected Topics in Biochemistry

### Other 6000-level BIOC courses

Other Graduate-level courses approved by the Graduate Coordinator

### Other Requirements

The student’s Graduate Committee must approve the written and oral reports and an oral exam must be passed.

<table>
<thead>
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<th>Hours Subtotal</th>
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1. Course to be taken 1 time each year prior to year of graduation.

## Non-Thesis Option

**Total Hours:** 32

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<tr>
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<td>Combination of core courses and other requirements to equal 30 hours.</td>
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### Core courses

- BIOC 5002 Research Compliance and Biochemistry Graduate Colloquium
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- BIOC 5753 Biochemical Principles
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### Electives

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### Other 6000-level BIOC courses

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### Other Requirements

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## Graduate College Master’s Program Requirements

Learn more about Graduate College 2023-2024 Master’s Degree Program Requirements (http://catalog.okstate.edu/graduate-college/). Check the General Graduate College academic regulations for minimal GPA, language proficiency and other general requirements.