## BIOCHEMISTRY AND MOLECULAR BIOLOGY, MS

Requirements for Students Matriculating in or before Academic Year 2024-2025. Learn more about Graduate College Academic Regulation 7.0 (http://catalog.okstate.edu/graduate-college/#70).

## **Thesis Option**

Total Hours: 30

Code	Title	Hours
Coursework		
Combination of core hours.	courses and other requirements to equal 24	24
Required Core Course	es	
BIOC 5002	Research Compliance and Biochemistry Graduate Colloquium	
BIOC 5112	Articulation of Research Logic	
BIOC 5120	Biochemistry and Molecular Biology Graduate Research Colloquium <sup>1</sup>	
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 BIO	C courses	
Other Graduate-level Advisory Committee	courses approved by the Graduate Thesis	
Additional Requireme	nts	
	ate Committee must approve the written cam on the context of the thesis must be	
Hours Subtotal		24
Required Research		
BIOC 5000	Research	6
Hours Subtotal		6
Total Hours		30

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Course to be taken 1 time each year prior to year of graduation.

## **Non-Thesis Option**

Total Hours: 32

Code	Title	Hours
Coursework		
	courses and other requirements to equal 30	30
hours.		
Core courses		
BIOC 5002	Research Compliance and Biochemistry Graduate Colloquium	
BIOC 5112	Articulation of Research Logic	
BIOC 5753	Biochemical Principles	
BIOC 5853	Molecular and Integrative Metabolism	
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	
BIOC 6820	Selected Topics in Biochemistry	
Electives		
BIOC 5102	Molecular Genetics	
BIOC 5723	Introduction to Bioinformatics	
BIOC 5824	Biochemical Laboratory Methods	
Other 6000-level BIO by the Graduate Coo	C courses (Graduate-level courses approved rdinator)	
Other Requirements		
The student's Gradua	ate Committee must approve the written	
formal report and an	oral exam must be passed.	
Hours Subtotal		30
Required Research		
BIOC 5000	Research	2
Hours Subtotal		2
Total Hours		32

## **Graduate College Master's Program Requirements**

Learn more about Graduate College 2024-2025 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.