

# BIOINFORMATICS, GCRT

## 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>).

**Total Hours:** 16

Code	Title	Hours
<b>Required Courses</b>		
MICR 5203	Bioinformatics	3
BIOC 5930	Advanced Biochemical Techniques (Capstone Project)	1
<b>Electives</b>		
Select 12 hours from the following: <sup>1</sup>		12
<i>Life Sciences Core</i>		
BIOC 6733	Functional Genomics	
PBIO 5553	Molecular Phylogenetic Analysis	
ANSI 5010	Special Problems (Mapping and Marker Assisted Selection)	
PBIO 5110	Special Topics in Plant Biology (Phylogenomics)	
BIOC 5102	Molecular Genetics	
<i>Statistics Core</i>		
STAT 6013	Genetic Statistics	
STAT 5013	Statistics for Experimenters I	
STAT 5023	Statistics for Experimenters II	
STAT 5093	Statistical Computing	
STAT 4203	Mathematical Statistics I	
STAT 4213	Mathematical Statistics II	
<i>Computer Science Core</i>		
CS 5423	Principles of Database Systems	
CS 5433	Big Data Management	
CS 5070	Seminar and Special Problems	
CS 4433	Introduction to Database Systems	
<i>Math Core</i>		
MATH 6590	Topics in Applied Mathematics	
<b>Hours Subtotal</b>		<b>16</b>
<b>Total Hours</b>		<b>16</b>

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Select 3 hours from each discipline or more than one from various disciplines with Advisory Committee approval.

## Graduate College Certificate Requirements

Learn more about Graduate College 2024-2025 Graduate Certificate Program Requirements (<http://catalog.okstate.edu/graduate-college/>).

Check the General Graduate College academic regulations for minimal GPA, language proficiency and other general requirements.