**BIOINFORMATICS, GCRT**

Requirements for Students Matriculating in or before Academic Year 2022-2023. Learn more about Graduate College Academic Regulation 7.0 (http://catalog.okstate.edu/graduate-college/#70).

Total Hours: 16

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MICR 5203</td>
<td>Bioinformatics</td>
<td>3</td>
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<tr>
<td>BIOC 5930</td>
<td>Advanced Biochemical Techniques (Capstone Project)</td>
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Electives

Select 12 hours from the following: 1  

**Life Sciences Core**
- 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

**Statistics Core**
- 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

**Computer Science Core**
- CS 5423 Principles of Database Systems
- CS 5433 Big Data Management
- CS 5070 Seminar and Special Problems
- CS 4433 Introduction to Database Systems

**Math Core**
- MATH 6590 Topics in Applied Mathematics

<table>
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<th>Hours Subtotal</th>
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</thead>
<tbody>
<tr>
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</tbody>
</table>

1

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 2022-2023 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.