**MICROBIOLOGY, CELL AND MOLECULAR BIOLOGY, MS**

Requirements for Students Matriculating in or before Academic Year 2019-2020. Learn more about Graduate College Academic Regulation 7.0 (http://catalog.okstate.edu/graduate-college).

### Thesis Option

**Total Hours:** 30 Hours

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MICR 5160</td>
<td>Seminar</td>
<td>1</td>
</tr>
<tr>
<td>MICR 6120</td>
<td>(Offered for fixed credit, 1 credit hour, maximum of 6 credit hours.)</td>
<td>2</td>
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</tbody>
</table>

**Hours Subtotal:** 3

### Electives

Select 21 hours from the following:

- Non-zero ending MICR courses at the 5000-level
- Non-zero ending BIOC courses at the 5000-level or above

**Hours Subtotal:** 21

### Thesis

- MICR 5000 Thesis

**Hours Subtotal:** 6

**Total Hours:** 30

### Non-Thesis Option

**Total Hours:** 32 Hours

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MICR 5160</td>
<td>Seminar</td>
<td>1</td>
</tr>
<tr>
<td>MICR 6163</td>
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<td>3</td>
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<td>MICR 5273</td>
<td>Advanced Principles of Microbial Pathogenesis</td>
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<td>MICR 6263</td>
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<tr>
<td>MICR 6120</td>
<td>(Offered for fixed credit, 1 credit hour, maximum of 6 credit hours.)</td>
<td>2</td>
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</table>

**Hours Subtotal:** 21

### Electives

Select 9 hours from the following:

- ZOOL 5283 Biological Laboratory Instrumentation
- Non-zero ending MICR courses at the 5000-level
- Non-zero ending BIOC courses at the 5000-level or above

**Hours Subtotal:** 9

### Additional Requirements

- MICR 5000 Thesis

**Hours Subtotal:** 2

**Total Hours:** 32

### General Graduate College Requirements

- A minimum Grade-Point-Average of 3.00 is required
- A minimum Grade of "C" is required in all degree applicable courses
- No courses utilizing the Pass-No Pass grading system are permitted
- GRAD 5082 or GRAD 5092 may not be used to meet degree requirements

### Additional Graduate College Masters Degree Requirements

#### Plan I (coursework with thesis)

- A minimum of 30 credit hours
  - A minimum of 24 coursework credit hours comprised of:
    - 6 research or creative component credit hours
    - 21 in-residence credit hours (maximum of 9 transfer hours with "B" or better)
    - 21 credit hours at 5000- or 6000-level

#### Plan II (coursework without thesis)

- A minimum of 32 credit hours
  - A maximum of 3 credit hours of research or creative component
  - A minimum of 23 in-residence credit hours (maximum of 9 transfer credit hours with "B" or better)
  - A minimum of 21 credit hours at the 5000- or 6000-level