## Microbiology (MR)

### Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
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<tbody>
<tr>
<td><strong>Core Courses</strong></td>
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<td>Select at least four of the following courses:</td>
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<tr>
<td>MB 535</td>
<td>Bacterial Pathogenesis</td>
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<tr>
<td>MB 714</td>
<td>Microbial Metabolic Regulation</td>
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<tr>
<td>MB 718</td>
<td>Introductory Virology</td>
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<tr>
<td>MB 751</td>
<td>Immunology</td>
<td></td>
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<tr>
<td>MB 758</td>
<td>Microbial Genetics &amp; Genomics</td>
<td></td>
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</table>

**Elective Courses**

"Elective Courses" are determined in conjunction with the academic committee to meet the 30 total hours

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**Total Hours**

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### Additional Requirements

- An annual “Graduate Student Progress” evaluation form is completed by the student with his/her advisor and submitted to the Director of Graduate Programs (DGP)
- An overall grade point average of at least 3.00 on graduate course work at NCSU is required

### Faculty

#### Full Professors

- Prema Arasu
- Rodolphe Barrangou
- Frederick Breidt
- Dennis T. Brown
- Jose Manuel Bruno-Barcena
- Susan B. Carson
- Mari S. Chinn
- Marc A. Cubeta
- Francis De Los Reyes
- Robert R. Dunn
- Frederick J. Fuller
- Amy Michele Grunden

### Associate Professors

- Nicolas Emile Buchler
- Douglas Franklin Call
- Jonathan E. Fogle
- Reza A. Ghiladi
- Megan E. Jacob
- Cristina Lanzas
- Jonathan W. Olson
- Joshua Glenn Pierce
- Frank Scholle
- Michael L. Sikes
- Robert G. Upchurch
- Gavin John Williams

### Assistant Professors

- Oliver Baars
- Benjamin John Callahan
- Wei-Chen Chang
Nathan Crook
Kevin Garcia
Angela Rose Harris
Manuel Kleiner
Aram Arshak Mikaelyan
Ryan William Paerl
Ilenys Muniz Perez Diaz
Casey Michelle Theriot

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**Emeritus Faculty**

Paul Edward Bishop
James W. Brown
Walter J. Dobrogosz
Gerald Hugh Elkan
Michael Carl Flickinger
Todd Robert Klaenhammer
Wesley Edwin Kloos
Geraldine Luginbuhl
Paul E. Orndorff
Leo W. Parks
Jason C. Shih

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**Adjunct Faculty**

James M. Ligon
Maria Andrea Azcarate Peril
Scott Harold Shore
Daniel van der Lelie