## Microbiology (MR)

### Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Core Courses</td>
<td>12</td>
<td></td>
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<td></td>
<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>
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</table>

**Elective Courses** 18

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

**Total Hours** 30

### 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
- Hosni Moustafa Hassan
- Christine Veronica Hawkes
- Shuijin Hu
- Michael Hyman
- Lee-Ann Jaykus
- Sophia Kathariou
- Robert M. Kelly
- Matthew D. Koci
- Scott M. Laster
- Hsiao-Ching Liu
- John M. Mackenzie Jr.
- Eric S. Miller
- Ian T. Petty
- Barbara Sherry
- Siddhartha Thakur
- Jeffrey A. Yoder

#### 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