## Genetics (PhD)

### Degree Requirements

#### Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td>GN 701</td>
<td>Molecular Genetics</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>GN 702</td>
<td>Cellular and Developmental Genetics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GN 703</td>
<td>Population and Quantitative Genetics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GN 810</td>
<td>Special Topics in Genetics (Journal Club)</td>
<td></td>
<td></td>
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<tr>
<td>GN 820</td>
<td>Special Problems</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GN 850</td>
<td>Professionalism and Ethics</td>
<td></td>
<td></td>
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<tr>
<td>ST 511</td>
<td>Statistical Methods For Researchers I</td>
<td></td>
<td></td>
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</tbody>
</table>

#### Teaching Course

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GN 885</td>
<td>Doctoral Supervised Teaching</td>
<td>6</td>
</tr>
</tbody>
</table>

#### Elective Courses

See "Elective Courses" listed below:

- **Other Elective**: 3

"Other Elective" is determined in conjunction with the academic committee.

#### Research Course

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GN 895</td>
<td>Doctoral Dissertation Research</td>
<td>36</td>
</tr>
</tbody>
</table>

**Total Hours**: 72

1. GN 810 Special Topics in Genetics is to be repeated twice to meet the 2 credit hour requirement.
2. Only three hours of these courses may be counted toward the primary elective requirement.
3. Other courses that do not appear on this list may be counted if they have substantial genetics content. Please consult with the Director of Graduate Programs if you would like to count a course as an elective that is not on this list.

### Elective Courses

Select at least three courses below:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GN 713</td>
<td>Quantitative Genetics and Breeding</td>
<td>3</td>
</tr>
</tbody>
</table>

### Faculty

#### Full Professors

Jose Miguel Alonso
Peter J. Balint-Kurti
Rodolphe Barrangou
David M. Bird
Adam Joseph Birkenheuer
Matthew Breen
Ignazio Carbone
Ralph A. Dean
Ralph E. Dewey
Robert Graham Franks
Troy Ghashghaei
John R. Godwin
Major M. Goodman
Fred L. Gould
Candace Hope Haigler
Linda Kay Hanley-Bowdoin
Christine Veronica Hawkes
James B. Holland
Fikret Isik
Ramsey S. Lewis
Hsiao-Ching Liu
Steven Lommel
James W. Mahaffey
Christian Maltecca
Carolyn Jane Mattingly
Kathryn Montgome Meurs
Spencer V. Muse
Natasha J. Olby
Charles H. Opperman
Balaji M. Rao
Emilie Francesca Rissman
Jean B. Ristaino
Coby J. Schal
Maxwell J. Scott
Heike Inge Ada Sederoff
Seth M. Sullivan
William F. Thompson

Jeffrey L. Thorne
Jung-Ying Tzeng
Keith R. Werninger
Ross W. Whetten
Brian M. Wiegmann
Qiuyun Xiang
Deyu Xie
Jeffrey A. Yoder
Zhaobang Zeng

Associate Professors
David Lawrence Aylor
Chase Beisel
Nicolas Emile Buchler
Gavin Clay Conant
Shobhan Gaddameedhi
Steffen Heber
Vasu Kuraparthy
Randall Brian Langerhans
Terri A. Long
Marce D. Lorenzen
John Edward Meltzen
Susana Rita Milla-Lewis
Nanette M. Nascone-Yoder
Dahlia M. Nielsen
Xinxia Peng
Marcela Pierce
Antonio Planchart
David Michael Reif
Michael Hay Reiskind
Reade Bruce Roberts
Michael L. Sikes
Rosangela Sozzani
Anna N. Stepanova
Yihui Zhou
Assistant Professors
Hamid Ashrafi
Benjamin John Callahan
Michael Anthony Cowley
Colleen Jennifer Doherty
Rafael Felipe Guerro Farias
Amanda Marie Hulse
Albert Jun Qi Keung
Manuel Kleiner
Caroline Laplante
Wusheng Liu
Anna Michelle Locke
Elizabeth Lucas
Kurt Marsden
Santosh Kumar Mishra
Casey C. Nestor
Benjamin J. Reading
Ruben Rellan Alvarez
Adriana San Miguel Delgadillo
Caitlin Suzanne Smukowski Heil
Casey Michelle Theriot
Laurianne Chantal Van Landeghem
Justin Graham Alexander Whitehill
Christina Zakas

Adjunct professors
Ron Ross Sederoff
Charles William Stubber
Earl A. Wernsman

Emeritus Professors
William Reid Atchley
Stephanie E. Curtis
Eugene Eisen
Charles S. Leavings III
Todd Robert Klaenhammer
Wesley Edwin Kloos
Dale F. Matzinger
Wendell Herbert McKenzie
John G. Scandalios
Henry E. Schaffer