## Bioinformatics (PhD)

### Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
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<tr>
<td><strong>Genomics Sciences Core Courses</strong></td>
<td></td>
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</tr>
<tr>
<td>ST 590</td>
<td>Special Topics (Bioinformatics I)</td>
<td>12</td>
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<tr>
<td>GN 735</td>
<td>Functional Genomics</td>
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<td>PP 810</td>
<td>Special Topics (Genomic Sciences Journal Club)</td>
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<tr>
<td>GN 701</td>
<td>Molecular Genetics</td>
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<td>or BCH 703</td>
<td>Macromolecular Synthesis and Regulation</td>
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<tr>
<td>GN 850</td>
<td>Professionalism and Ethics</td>
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<tr>
<td>ST 590</td>
<td>Special Topics (Bioinformatics II)</td>
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<td>CSC 530</td>
<td>Computational Methods for Molecular Biology</td>
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<td>ST 512</td>
<td>Statistical Methods For Researchers II</td>
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<tr>
<td>ST 810</td>
<td>Advanced Topics in Statistics (Bioinformatics Consulting)</td>
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<td><strong>Bioinformatics PhD Courses</strong></td>
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<tr>
<td>PP 810</td>
<td>Special Topics (Genomic Sciences Journal Club)</td>
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<tr>
<td>ST 501</td>
<td>Fundamentals of Statistical Inference I</td>
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<tr>
<td>ST 502</td>
<td>Fundamentals of Statistical Inference II</td>
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<td><strong>Elective Courses</strong></td>
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<td><strong>Doctoral Research Courses</strong></td>
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</table>
| Total Hours | | | 73

1. PP 810 Genomic Sciences Journal Club should be repeated four times (twice for "Genomic Sciences Core Courses" and twice for "Bioinformatics PhD Courses").

### Faculty

#### Full Professors
- Jose Miguel Alonso
- Christopher M. Ashwell
- David M. Bird
- Donald L. Bitzer
- Russell J. Borski
- Matthew Breen
- Dennis T. Brown
- Ignazio Carbone
- Marie Davidian
- Jon Doyle
- Robert Graham Franks
- Sujit K. Ghosh
- Amy Michele Grunden
- Jason M. Haugh
- Jacqueline M. Hughes-Oliver
- Erich L. Kaltofen
- Robert M. Kelly
- Matthew D. Koci
- Bailian Li
- Hsiao-Ching Liu
- Christian Maltecca
- Earl S. Maxwell
- Melissa Schuster Merrill
- David C. Muddiman
- Spencer V. Muse
- Charles H. Opperman
- James N. Petitte
- Robert M. Petters
- Jorge A. Piedrahita
- Brian J. Reich
- Maria C. Sagui
Barbara Sherry
Seth M. Sullivant
Jeffrey L. Thorne
Jung-Ying Tzeng
Mladen Alan Vouk
Ross W. Whetten
Fred Andrew Wright
Qiuyun Xiang
Zhaobang Zeng
Daowen Zhang

Associate Professors
David Lawrence Aylor
Nicolas Buchler
Gavin Clay Conant
Michael B. Goshe
Steffen Heber
Slavko Komarnytsky
David S. Lalush
Terri A. Long
Arnab Maity
Flora Meilleur
Dahlia M. Nielsen
Jonathan W. Olson
Xinxia Peng
David Michael Reif
Michael L. Sikes
Charles Eugene Smith
Lori June Unruh Snyder
Yihui Zhou

Assistant Professors
Hamid Ashrafi
Benjamin J. Callahan
Denis Fourches
Amanda Marie Hulse

David Rasmussen
Christina Zakas

Practice/Research/Teaching Professors
Patricia A. Estes
Jane L. Lubisher

Emeritus Faculty
William Reid Atchley
Wendy F. Boss
Rebecca S. Boston
James W. Brown
Vincent L. C. Chiang
Eugene Eisen
Todd Robert Klaenhammer
Wayne Tompkins
Anastasios A. Tsiatis
Paul L. Wollenzien