

# Bioinformatics (PhD)

## Degree Requirements

Code	Title	Hours	Counts towards
<b>Genomics Sciences Core Courses</b>		<b>12</b>	
ST 590	Special Topics (Bioinformatics I)		
GN 735	Functional Genomics		
PP 810	Special Topics (Genomic Sciences Journal Club) <sup>1</sup>		
GN 701	Molecular Genetics		
	or BCH 703 Macromolecular Synthesis and Regulation		
GN 850	Professionalism and Ethics		
<b>Bioinformatics Core Courses</b>		<b>12</b>	
ST 590	Special Topics (Bioinformatics II)		
CSC 530	Computational Methods for Molecular Biology		
ST 512	Statistical Methods For Researchers II		
ST 810	Advanced Topics in Statistics (Bioinformatics Consulting)		
<b>Bioinformatics PhD Courses</b>		<b>8</b>	
PP 810	Special Topics (Genomic Sciences Journal Club) <sup>1</sup>		
ST 501	Fundamentals of Statistical Inference I		
ST 502	Fundamentals of Statistical Inference II		
<b>Elective Courses</b>		<b>9</b>	
"Elective Courses" will be determined in conjunction with the academic committee			
<b>Doctoral Research Courses</b>		<b>32</b>	
"Doctoral Research Courses" will be determined in conjunction with the academic committee			
<b>Total Hours</b>		<b>73</b>	

<sup>1</sup> 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

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### 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

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### Assistant Professors

Hamid Ashrafi  
Benjamin J. Callahan  
Rafael Felipe Guerrero Farias

Denis Fourches  
Amanda Marie Hulse  
Jicai Jiang  
David Rasmussen  
Christina Zakas

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### Practice/Research/Teaching Professors

Patricia A. Estes  
Jane L. Lubischer

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### 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