

Biochemistry (MR)

Master's Degree Requirements

Degrees earned will be distributed as: "Master of Biochemistry" without focus area specifications.

Code	Title	Hours
Core Courses		13
BCH 701	Macromolecular Structure	
BCH 703	Macromolecular Synthesis and Regulation	
BCH 705	Molecular Biology Of the Cell	
BCH 801	Seminar In Biochemistry ¹	
Elective Courses		17
See "Elective Courses" listed below ²		
Total Hours		30

¹ Every semester for 2 years, 4 credit hours total; 1/semester

² Students may choose other courses approved in conjunction with the academic committee

Elective Courses

Code	Title	Hours
Select courses from any category below		17
Molecular and Structural Biochemistry		
BCH 555	Proteins and Molecular Mechanisms	3
BCH 590	Special Topics in Biochemistry	1-6
BCH 770	Enzyme Kinetics and Mechanisms	3
BCH 760	Protein Crystallography and Macromolecular Modeling	3
Plant and Microbial Biology		
MB 414	Microbial Metabolic Regulation	3
MB 505	Food Microbiology	3
PB 580	Introduction to Plant Biotechnology	3
PB 595	Special Topics in Plant Biology	1-4
MB 725	Fermentation Microbiology	3
Food, Bioprocessing and Nutrition Science		
NTR 419	Human Nutrition and Chronic Disease	3
NTR 500	Principles of Human Nutrition	3
NTR 501	Advanced Nutrition and Metabolism	3
NTR 510	Maternal and Infant Nutrition	3
NTR 555	Exercise Nutrition	3
NTR 557	Nutraceuticals and Functional Foods	3
Physiology		
PHY 503	General Physiology I	3
PHY 504	General Physiology II	3
Animal Science		
ANS/BCH 571	Regulation of Metabolism	3
ANS 701	Protein and Amino Acid Metabolism	3

Prestage Poultry Science

PO 504	Avian Anatomy and Physiology	4
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Additional Requirements

- Successful completion of the Master's degree requires a minimum of 30 credit hours.
- At least 24 credit hours of letter-graded courses ("A," "B," "C", etc.) must be included in the program.

Faculty

Joe Barycki

Dennis Brown

Colleen Jennifer Doherty

Abdulkerim Eroglu

Michael B. Goshe

Raquel Hernandez

Linda Kay Hanley-Bowdoin

Arion Kennedy

Xiaojing Liu

Thomas Makris

Flora Meilleur

Eric S. Miller

William Laubach Miller

David G. Presutti

Robert B. Rose

Ruben Rellan Alvarez

Ryan Charles Sartor

Melanie Simpson

Joshua J. Strable

Jose Trinidad Ascencio-Ibanez

Ning Sui

Paul Douglas Swartz

Peter Thompson

Guozhou Xu

Adjunct Faculty

Jason Locasale

Michael Luther

Michael Milburn

James Otvos

Emeritus Faculty

Cynthia L. Hemenway

Horace R. Horton

Joseph Stephan Kahn

James Knopp

James W. Moyer

Ron Ross Sederoff

Harold E. Swaisgood

Elizabeth C. Theil

Paul L. Wollenzien