## **Metabolic Biology**

The Metabolic Biology MS and PhD programs provide interdisciplinary training in the areas that include metabolic regulation, physiological chemistry, nutrient functions, and diseases related to metabolic disorders such as diabetes and cancer.

# Admission to the University Applying for Graduate Admission

Thank you for considering UC Berkeley for graduate study! UC Berkeley offers more than 120 graduate programs representing the breadth and depth of interdisciplinary scholarship. A complete list of graduate academic departments, degrees offered, and application deadlines can be found on the Graduate Division website (http://grad.berkeley.edu/programs/list/).

Prospective students must submit an online application to be considered for admission, in addition to any supplemental materials specific to the program for which they are applying. The online application can be found on the Graduate Division website (http://grad.berkeley.edu/admissions/).

#### **Admission Requirements**

The minimum graduate admission requirements are:

- A bachelor's degree or recognized equivalent from an accredited institution;
- 2. A satisfactory scholastic average, usually a minimum grade-point average (GPA) of 3.0 (B) on a 4.0 scale; and
- Enough undergraduate training to do graduate work in your chosen field.

For a list of requirements to complete your graduate application, please see the Graduate Division's Admissions Requirements page (https://grad.berkeley.edu/admissions/steps-to-apply/requirements/). It is also important to check with the program or department of interest, as they may have additional requirements specific to their program of study and degree. Department contact information can be found here (http://guide.berkeley.edu/graduate/degree-programs/).

## Where to apply?

Visit the Berkeley Graduate Division application page (http://grad.berkeley.edu/admissions/apply/).

## **Admission to the Program**

Admission to the Metabolic Biology (formally Molecular and Biochemical Nutrition) program is based on a variety of factors, including academic achievement and relevant experience. We practice holistic admissions—each part of the application is important and thoroughly reviewed.

Applicants with a background in the biological sciences and lab experience are best suited for the Metabolic Biology program. While there are **no set prerequisites**, we look for the coursework in areas such as calculus, general and organic chemistry, biology, and biochemistry. Because this program is designed to develop research scientists, it is also important that applicants are familiar with an experimental lab setting.

#### Curriculum

#### **Courses Required**

Courses Requir	ed	
First Year		
NUSCTX 103	Nutrient Function and Metabolism	4
MCELLBI 110	Molecular Biology: Macromolecular Synthesis and Cellular Function	4
NUSCTX 211A	Introduction to Research in Nutritional Sciences (Rotations & reports)	4-8
NUSCTX 211B	Introduction to Research in Nutritional Sciences (Rotations & reports)	4-8
NUSCTX 250	Advanced Topics in Metabolic Biology	3
NUSCTX 260	Metabolic Bases of Human Health and Diseases Graduate Level	4
NUSCTX 290	Advanced Seminars in Nutritional Sciences (Advanced Special Topics offered by NST Dept. or any biological/chemical science department; 3 required taken once a year)	2
NUSCTX 292	Graduate Research Colloquium (Every semester)	1
NUSCTX 293	Research Seminar (Faculty Research Presentations)	1
NUSCTX 299	Nutritional Sciences and Toxicology Research *taken instead of NUSCTX 211B upon joining a lab after first or second rotation	1-12
NUSCTX 302	Professional Preparation: Supervised Teaching Experience in Nutrition	2
NUSCTX 375	Professional Preparation: Teaching in Nutritional Sciences	2
Second—Fift	h Years	
NUSCTX 290	Advanced Seminars in Nutritional Sciences (Advanced Special Topics offered by NST Dept. or in any biological/chemical science department; 3 required taken once a year)	2
NUSCTX 292	Graduate Research Colloquium (Every semester)	1
NUSCTX 299	Nutritional Sciences and Toxicology Research (Every semester)	1-12

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NUSCTX 293	Research Seminar (Faculty Research Presentations)	1		
NUSCTX 299	Nutritional Sciences and Toxicology Research *taken instead of NUSCTX 211B upon joining a lab after first rotation	1-12		

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NUSCTX 302	Professional Preparation: Supervised Teaching Experience in Nutrition *if teaching	2
NUSCTX 375	Professional Preparation: Teaching in Nutritional Sciences	2
Second Year		
NUSCTX 290	Advanced Seminars in Nutritional Sciences (Advanced Special Topics offered by NST Dept. or in any biological/chemical science department)	2
NUSCTX 292	Graduate Research Colloquium	1
NUSCTX 299	Nutritional Sciences and Toxicology Research 1	-12