

# Molecular Toxicology

The PhD program in Molecular Toxicology focuses on the adverse effects of chemicals on living organisms and how these effects are modulated by genetic, physiologic, and environmental factors.

## 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. The Graduate Division hosts a complete list (<https://grad.berkeley.edu/admissions/choosing-your-program/list/>) of graduate academic programs, departments, degrees offered, and application deadlines can be found on the Graduate Division website.

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 and steps to take to apply can be found on the Graduate Division website (<https://grad.berkeley.edu/admissions/steps-to-apply/>).

## Admission Requirements

The minimum graduate admission requirements are:

1. 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
3. 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 (<https://guide.berkeley.edu/archive/2024-25/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 Molecular Toxicology 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 Molecular Toxicology 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

NUSCTX 110	Course Not Available	
MCELLBI 110	Molecular Biology: Macromolecular Synthesis and Cellular Function	4
MCELLBI 236	Advanced Mammalian Physiology	5
NUSCTX 250	Advanced Topics in Metabolic Biology	3
NUSCTX 290	Advanced Seminars in Nutritional Sciences (Advanced Special Topics offered by NST Dept. or in any biological/chemical science department; Once a year)	2
NUSCTX 292	Graduate Research Colloquium (Every semester)	1
NUSCTX 293	Research Seminar	1
NUSCTX 299	Nutritional Sciences and Toxicology Research (Every semester)	1-12
NUSCTX 302	Professional Preparation: Supervised Teaching Experience in Nutrition	2
Graduate Electives, as per approved study list in research area		6
Nutritional Sciences & Toxicology Department Seminar		
NUSCTX 375	Professional Preparation: Teaching in Nutritional Sciences	1-2
<b>Total Units</b>		<b>26-38</b>