

# Molecular and Cellular Biology, MS

LACELLMS

Do you want to understand the fundamental molecular events at the core of all life? Choose from a diverse range of research and training opportunities, gain skills in contemporary techniques and enjoy the opportunity to tailor the program around your research and career interests.

## Program description

### **Degree awarded: MS Molecular and Cellular Biology**

The MS program in molecular and cellular biology encourages interdisciplinary, innovative research, allowing students to choose from a diverse range of research and training opportunities. Students gain skills in contemporary approaches used in molecular and cellular biology.

## At a glance

- **College/School:** [The College of Liberal Arts and Sciences](#)
- **Location:** [Tempe](#)

## Accelerated program options

This program allows students to obtain both a bachelor's and master's degree in as little as five years. It is offered as an **accelerated bachelor's plus master's degree** with:

[Biological Sciences, BS](#)

[Biological Sciences \(Biology and Society\), BS](#)

[Biological Sciences \(Biomedical Sciences\), BS](#)

[Biological Sciences \(Conservation Biology and Ecology\), BS](#)

[Biological Sciences \(Genetics, Cell and Developmental Biology\), BS](#)

Biological Sciences (Neurobiology, Physiology and Behavior), BS

Microbiology, BS

Molecular Biosciences and Biotechnology, BS

Neuroscience, BS

Acceptance to the graduate program requires a separate application. Students typically receive approval to pursue the accelerated master's during the junior year of their bachelor's degree program. Interested students can learn about eligibility requirements and [how to apply](#).

## Degree requirements

30 credit hours and a thesis

### **Required Core (6 credit hours)**

MCB 555 Advanced Molecular and Cellular Sciences (3)

MCB 556 Advanced Molecular and Cellular Biology II (3)

### **Electives or Research (10 credit hours)**

### **Other Requirements (8 credit hours)**

BIO 543 Molecular Genetics and Genomics (3)

BIO 610 Introduction to Responsible Conduct of Research in Life Sciences (1)

MCB 501 Seminar: Molecular and Cellular Biology Colloquium (4)

### **Culminating Experience (6 credit hours)**

MCB 599 Thesis (6)

### **Additional Curriculum Information**

Students are required to take MCB 501 each semester they are registered. If a student is registered for more or fewer than four semesters, the research hours and MCB 501 hours may be adjusted accordingly to reach 30 credit hours.

Students should see the academic unit for a complete list of approved electives.

## Admission requirements

Applicants must fulfill the requirements of both the Graduate College and The College of Liberal Arts and Sciences.

Applicants are eligible to apply to the program if they have earned a bachelor's or master's degree in the biological sciences, biochemistry or a closely related field from a regionally accredited institution.

Applicants must have a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in the last 60 hours of their first bachelor's degree program, or a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in an applicable master's degree program.

Applicants must submit the following:

1. graduate admission application and application fee
2. official transcripts
3. academic record form
4. personal statement
5. curriculum vitae or resume
6. three letters of recommendation
7. proof of English proficiency

### **Additional Application Information**

An applicant whose native language is not English must provide proof of [English proficiency](#) regardless of their current residency.

Research experience is a desired qualification.

## **Tuition information**

When it comes to paying for higher education, everyone's situation is different. Students can learn about [ASU tuition and financial aid](#) options to find out which will work best for them.

## **Career opportunities**

Those who have earned a master's degree in molecular and cellular biology are prepared for academic careers at every level, from community colleges to research universities. Their skills and knowledge are also valuable for careers in federal and state agencies, in industry and in nongovernmental organizations.

Career examples include:

- instructors at community colleges
- researchers and technicians in government labs and nonprofit organizations
- science teachers in elementary and high schools
- scientists and bioinformaticians in academic, private and industrial labs

## **Contact information**

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