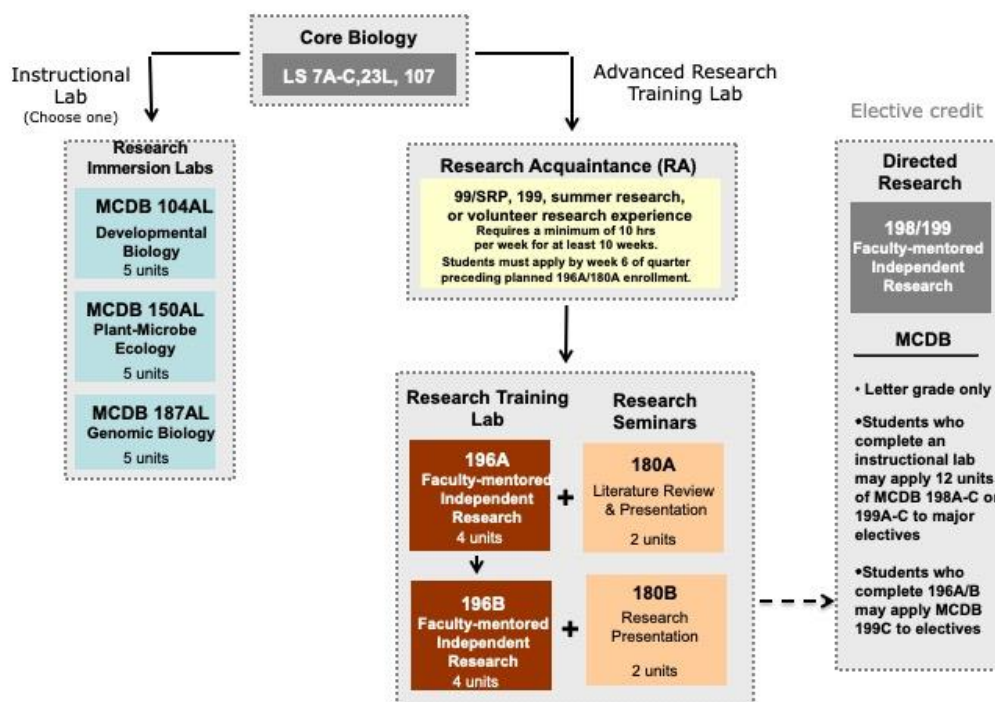


Application Instructions for MCDB 180A/B – Scientific Analysis and Communication I & II and 196A/B – Research Apprenticeship in MCDB I & II



Students who plan to fulfill the MCDB Laboratory Requirement with independent research must complete two consecutive quarters of research seminars, **MCDB 180A and 180B – Scientific Analysis and Communication I & II**, taken concurrently with **MCDB 196A and 196B – Research Apprenticeship in MCDB I & II**. * Students must apply to enroll.

***Note to fourth-year students who plan to complete MCDB Departmental Honors (MCDB 198A-C) but also want to fulfill the MCDB Lab Requirement with independent research:** If you are entering your fourth year and would like to fulfill your Lab Requirement with independent research, but you also want to be eligible for Departmental Honors, which requires MCDB 198A-C, then you may take MCDB 180A and 180B alongside either MCDB 198A and 198B or MCDB 198B and 198C, instead of MCDB 196A and 196B.

Why is MCDB 180A/B required in order to fulfill the MCDB Lab Requirement with independent research?

MCDB 180A/B, along with MCDB 196A/B, have been designed to ensure that students learn how to build a testable hypothesis, propose experiments, perform experiments, analyze research data, as well as record information and troubleshoot experiments.

The seminars will focus on presentation and discussion of research literature and each student's independent research project. They are designed to enhance students' research experience. The seminars expose students to the process of scientific discovery by providing hands-on experience applying the scientific method.

Who is eligible to apply for MCDB 180A/B and 196A/B?

You are eligible to apply if...

- You are conducting research with an MCDB-approved faculty research mentor included on the MCDB-Approved List of Faculty Research Mentors;
- You have completed LIFESCI 7A, 7B, 7C, 7L (formerly 23L), and 107;
- You have completed or are completing at least one quarter in the lab either as a volunteer or enrolled in SRP-99 or 199;
- You have a minimum 3.0 overall and major GPA. (If you do not have a major GPA at the time of application, then your major prep GPA must be at least 3.0);
- You are not working for pay in your faculty mentor's lab while receiving academic credit for your research.

How will MCDB 180A/B and 196A/B be applied towards my major requirements?

- MCDB 196A (or MCDB 198A or 198B) (4 units) is accepted as a Category 1 elective for the MCDB major.
- MCDB 196B (or MCDB 198B or 198C) (4 units) fulfills the MCDB Laboratory Requirement when taken alongside MCDB 180B.
- MCDB 180A (2 units) and 180B (2 units) are accepted as Category 1 electives for the MCDB major.

How do I apply for MCDB 180A/B and 196A/B?

Eligible students must apply for enrollment in MCDB 180A/B and MCDB 196A/B.

The following forms must be submitted by the applicable deadline:

1. Undergraduate Researcher Application and Acknowledgement Form
2. MCD BIO 196A (or 198A or 198B) contract (See instructions on the next page)
3. Research Project Proposal
4. Faculty Mentoring Agreement

Deadline to Apply for the Fall/Winter Offering: 5:00 PM on the second Friday of August

Deadline to Apply for the Winter/Spring Offering: 5:00 PM on Friday of Week 6 of Fall quarter

Applications will be reviewed by the department's curriculum committee. Students will be notified of a decision within 2-3 weeks of the submission deadline. It is advised that students enroll in back-up classes for the subsequent quarter in case their application is not approved.

If approved, the MCDB undergraduate advisor will enroll the student in MCDB 180A and MCDB 196A (or MCDB 198A or 198B).

MCDB 196A/B Contract Creation Instructions

1. Login to MyUCLA.
2. Click on **Contract Courses** under the **Classes** tab.
3. Select **Create a new contract**.
4. Select your **term**. Then, select your **Course**. Select **Research Apprenticeship – 196**. Click **Next**.

(If you plan to take MCDB 198A-B or MCDB 198B-C alongside MCDB 180A and 180B, please select Honors Research – 198 instead).
5. Read the enrollment instructions and then click **Next**.
6. Select **MOLECULAR, CELL, AND DEVELOPMENTAL BIOLOGY** as the **Subject Area**. Click **Next**.
7. Select a course number from the drop-down box. Click **Next**.
8. Search your faculty mentor's last name. Click **Select**. Then, click **Next**.
9. The system will check if you have completed the required workshop, Laboratory Safety Fundamentals. You will not be permitted to move ahead with creating the contract until you have completed the workshop.
10. Because all MCDB research tutorial courses are fixed at **4 units** and **Letter Grade**, you do not have to select anything on this page. Click **Next**.
11. For the **short description and nature of faculty supervision**, please write, "**See attached proposal.**" For **tangible evidence**, please write "**Quarterly Research Paper.**" Click **Next**.
12. Review your contract.
13. Review the terms or requirements for your contract. If you meet the eligibility requirements, **select I meet all the eligibility requirements for this contract**. Click **Continue**.
14. Print the contract and ask your faculty mentor to sign and date. You do NOT need to get the Chair's signature. Submit the contract, signed by your faculty mentor, along with other required materials, to the Google Form by the applicable deadline.

Undergraduate Researcher Acknowledgement Form

To apply for enrollment in MCDB 180A and 196A, you must sign the following acknowledgement form and submit it, along with your research contract, project proposal, and faculty mentoring agreement.

In which research tutorial course are you proposing to enroll (alongside MCDB 180A)?

_____ MCDB 196A OR _____ MCDB 198A or 198B*

*Only fourth-year students are eligible to enroll in MCDB 198A-C alongside the MCDB 180A/B seminars. Please contact the MCDB undergraduate advisor with any questions.

Please consult the [UCLA Schedule of Classes](#) and note the day/time of MCDB 180A. Please arrange your schedule accordingly.

I have read all information, including the application instructions, proposal guidelines for the research tutorial course I have indicated above, and I understand that I am responsible for and will be held to all instructions and policies detailed therein.

Student Signature

Print Name

UID

Overall GPA

Major GPA

Quarter/Year Joined Lab (e.g., Spring 2023)

Print Full Name of Research Sponsor

Date