

UCLA CHEMISTRY-MATERIALS SCIENCE MAJOR 2026-2027

CHEMISTRY-MATERIALS SCIENCE MAJOR (B.S.): This major is designed primarily for students who are interested in chemistry with an emphasis on material properties. The major provides appropriate preparation for graduate studies in fields emphasizing interdisciplinary research involving chemistry, engineering, and applied science. Refer to the UCLA General Catalog (<http://catalog.registrar.ucla.edu/>) for course descriptions and requisites.

For more details about this major and others offered in the Department of Chemistry and Biochemistry, consult the Undergraduate Office in Young Hall 3013.

Preparation for the Major	
Connections in Chemistry and Biochemistry (CHEM)	Chem 1*
General Chemistry (CHEM)	Chem 20A(H), 20B(H), 20L, 30AL
Organic Chemistry (CHEM)	Chem 30A
Math (MATH)	Math 31A, 31B, 32A, 32B, 33A (Math 33B highly recommended)
Physics (PHYSICS)	Physics 1A(H), 1B(H), 1C(H), 4BL

*First-year departmental majors only

(H) indicates that an Honors section may be available

Upper Division Major Requirements	
Chemistry (CHEM)	Chem 110A, 113A, 171*, C185, [C172+ <u>OR</u> C173+ <u>OR</u> C180+]
One Chemistry Elective (Choose One)	Chem 110B, C115A, C123A, C172+, C173+, C174, C175, C176, C180+
Materials Science & Engineering (MAT SCI)	Mat Sci 104, 110, 110L, 120, 131, [121+ <u>OR</u> 150+ <u>OR</u> 160+]
Two Materials Science & Engineering Electives (MAT SCI) (8 units)	Mat Sci C111, 121+, 122, 132, 150+, 160+, 162, CM180
Laboratory Electives (1 CHEM & 1 MAT SCI) (7 units)	Chem 114, 184; Mat Sci 121L, 131L, 161L

+ Course may only be applied once to the major

[] Pick one course enclosed in brackets

* You will be allowed to enroll in CHEM 171 as a Chemistry-Materials Science Major without having taken CHEM 30B.

Important Notes

- You must have a minimum of 180 units to graduate, and 60 of those units must be upper division (courses numbered 100 to 199).
- The Chemistry-Materials Science B.S. Upper Division Major Requirements satisfy at least 62 upper division units.
- All Preparation for the Major and Upper Division Major courses must be taken for a letter grade.
- Seminars, individual study courses, and research courses (e.g. 196, 199) may not be used to satisfy the requirements for the Chemistry-Materials Science major.
- You must have a 2.0 GPA in the major to graduate with a degree. If you fall below a 2.0 GPA in the major, it is strongly recommended that you change majors.
- You may not take or repeat a chemistry or biochemistry course for credit if it is a prerequisite for a more advanced course for which you already have credit.
- Please note that Mat Sci 131, 131L, 132, 160, and 161L have an enforced requisite of Mat Sci 130. The Engineering Department will accept Chem 110A in place of Mat Sci 130.

UCLA CHEMISTRY-MATERIALS SCIENCE MAJOR 2026-2027 – Sample Major Course Plans

INCOMING FRESHMEN

FRESHMAN YEAR

FALL	WINTER	SPRING
CHEM 20A(H) (4)	CHEM 20B(H) (4)	CHEM 30A (4)
MATH 31A (4)	CHEM 20L (3)	MATH 32A (4)
	MATH 31B (4)	

SOPHOMORE YEAR

FALL	WINTER	SPRING
CHEM 30AL (4)	MATH 33A (4)	MAT SCI 104 (4)
MATH 32B (4)	PHYSICS 1B(H) (5)	PHYSICS 1C(H) (5)
PHYSICS 1A(H) (5)		PHYSICS 4BL (2)

JUNIOR YEAR

FALL	WINTER	SPRING
CHEM 171 (4)	CHEM 110A (4)	CHEM 113A (4)
MAT SCI 110 (4)	MAT SCI 120 (4)	MAT SCI 121 (4)
MAT SCI 110L (2)	MAT SCI 131 (4)	MAT SCI 121L (2)

SENIOR YEAR

FALL	WINTER	SPRING
CHEM C115A (4)	CHEM 184 (5)	CHEM C172 (4)
MAT SCI 160 (4)	MAT SCI C111 OR 122 (4)	CHEM 185 (5)

(Numbers in parentheses indicate the number of units.)

Important Notes

- **This plan is just one EXAMPLE of how to schedule classes to graduate in 4 years. Other schedules may be equally valid.**
- This plan only includes required courses for the Preparation for the Major and the Upper Division Major Requirements.
- **This plan does not include General Education and other College requirements.** For these requirements, please consult with your College Advising Unit (College Academic Counseling, AAP, Honors, Athletics).
- Be sure to check your Degree Audit Report (DAR) frequently to ensure you are meeting all degree requirements.

TRANSFER STUDENTS

JUNIOR YEAR

FALL	WINTER	SPRING
CHEM 171 (4)	CHEM 110A (4)	CHEM 113A (4)
MAT SCI 104 (4)	MAT SCI 120 (4)	CHEM C172 (4)
	MAT SCI 122 (4)	

SENIOR YEAR

FALL	WINTER	SPRING
CHEM 110B	CHEM 114 (4)	CHEM 185 (5)
MAT SCI 110 (4)	MAT SCI C111 (4)	MAT SCI 121 (4)
MAT SCI 110L (2)	MAT SCI 131 (4)	MAT SCI 121L (2)

(Numbers in parentheses indicate the number of units.)

Important Notes

- **This plan is just one EXAMPLE of how to schedule classes to graduate in 2 years. Other schedules may be equally valid.**
- Assuming that incoming transfer students have already completed the Preparation for the Major, this plan only includes required courses for the Upper Division Major Requirements.
- **This plan does not include General Education and other College requirements.** For these requirements, please consult with your College Advising Unit (College Academic Counseling, AAP, Honors, Athletics).
- Be sure to check your Degree Audit Report (DAR) frequently to ensure you are meeting all degree requirements.

Courses may not always be taught in the quarter shown. Check with the Department or scan the QR code for the list of tentative course offerings.

