Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

To: University of California, Merced 2022-2023 General Catalog, Semester

From: De Anza College 2022-2023 General Catalog, Quarter

Chemistry, Biological Chemistry Emphasis, B.S.

ADMISSIONS MAJOR SELECTION CRITERIA

Thank you for your interest in UC Merced!

For admission to the **Chemistry, Biological Chemistry** Emphasis, B.S. major, students must earn an overall transferrable GPA of 2.8 or better, and must complete classes articulated with the following UC Merced courses by the end of spring term prior to fall enrollment or by the end of fall term prior to spring enrollment. All Major Preparation courses requires a "C" or better.

REQUIRED Major Preparation Courses For Transfer:

- CHEM 002
- CHEM 010
- MATH 021
- MATH 022
- PHYS 008 & PHYS 008L
- PHYS 009 & PHYS 009L

Additional Major Preparation Courses: Recommended Prior to Transfer:

- CHEM 008 & CHEM 008L AND CHEM 100 OR CHEM 100 & CHEM 100L
- BIO 001 and BIO 001L
- BIO 002 and BIO 002L
- Math 023, 024, 032
- Complete either CSE 005 or CSE 019 or MATH 015

Since many of the <u>Additional Major Preparation Courses</u> are prerequisites for upper division courses, completing them, particularly courses in BIO 001 & BIO 001L, Organic Chemistry and Linear Algebra/Differential Equation, before enrollment at UC Merced can speed up time to graduation.

AP Exam Score & Course Exemptions

- An AP Biology score of 4 or 5 exempts BIO 001 and BIO 001L
- An AP Chemistry score of 5 exempts CHEM 002 and CHEM 010
- An AP Computer Science: Comp Science A score of 3 or 4 exempts CSE 005
- An AP Mathematics: Calculus AB score of 4 or 5 exempts MATH 021
- An AP Mathematics: Calculus BC score of 3 exempts MATH 021
- An AP Mathematics: Calculus BC score of 4 or 5 exempts MATH 021 and MATH 022
- An AP Mathematics: Calculus BC Subscore AB score 3 or higher exempts MATH 021
- AP Physics: Physics C: Mechanics score of 5 exempts PHYS 008 and PHYS 008L

UC Merced Advance Placement (AP) and International Baccalaureate (IB) credit policies are detailed in the link below:

Advance Placement (AP) and International Baccalaureate (IB) Examinations

IMPORTANT TRANSFER INFORMATION

In addition to the Major Selection Criteria, all Upper-Division Transfer applicants must meet minimum <u>University of California admissions</u> requirements. Visit https://admissions.ucmerced.edu/transfer/requirements for more specific UC Merced admissions information.

Prior to Transferring to UC Merced, please be advised of the following for Junior Transfers:

- 1) WRI 001 and WRI 010 are admissions requirements: In most situations, WRI 001 is fulfilled by IGETC 1A English Composition and WRI 010 is fulfilled by IGETC 1B Critical Thinking/English Composition. However best practice is to complete the articulated course for WRI 001 and WRI 010. Please scroll towards the bottom of the agreement to find the articulation for each course.
- 2) Transfer Admissions Guarantee (TAG): UC Merced is one of the six UC's that offers Transfer Admissions Guarantee. Please visit the TAG website for more information: https://admissions.ucmerced.edu/transfer/tag
- **3) General Education (GE Requirements):** While general education is not required for admission, it can help speed up your time to graduation once you transfer to UC Merced. We highly recommend reviewing the <u>Transfer Students: Satisfying General Education</u> page in the catalog for a more extensive explanation of the requirements.

Please note the <u>School of Natural Sciences</u> does not recommend IGETC, but accepts it; students are encouraged to focus primarily on lower division major preparation and fulfilling UCM minimum admissions requirements. If you elect to complete IGETC, the courses may double count with the major courses listed below. Please visit your Community College Counselor to learn more.

4. This agreement displays all lower-division (or Major Preparation) courses required in the major. UC Merced courses on the left, approved

(articulated) transfer courses to the right.

5. Changes to this Agreements: Major requirements are subject to change from one academic year to the next. Newly-articulated courses are added on a rolling basis, and articulated courses can be revised. Visit ASSIST every semester for the latest information and consult with an Academic Counselor at your institution on a regular basis.

For more questions about admissions, please email: transfer@ucmerced.edu.

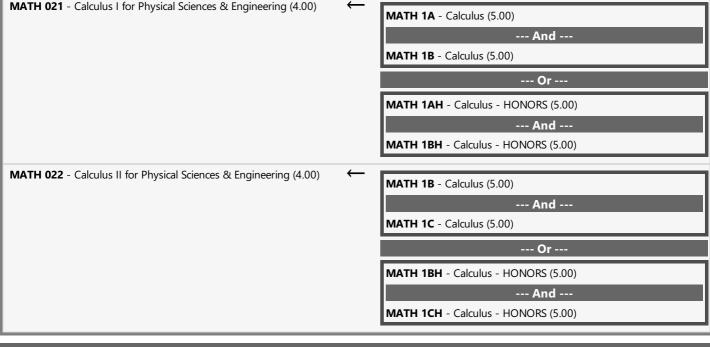
ABOUT THIS MAJOR

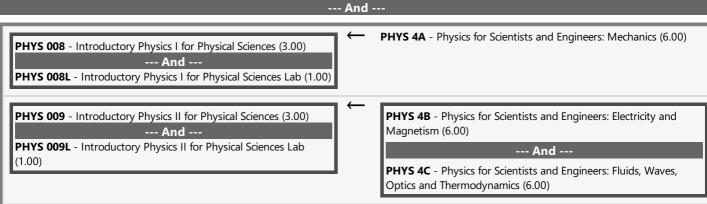
The UC Merced Chemistry undergraduate program is based on a core-plus-emphasis structure that enables students to specialize in particular subfields while each completing a set of core courses designed to meet the requirements for American Chemical Society accreditation. We offer a basic chemistry program and two emphasis tracks: biological chemistry and materials chemistry. These tracks allow our students to pursue interdisciplinary areas within a degree program that is still focused on chemistry.

For more information on the **Biological Chemistry** emphasis, please visit the <u>22-23 catalog</u> and the <u>Four-Year Course Plan</u> (We encourage to visit your Community College Counselor to create an individualize educational plan for transfer)

MAJOR PREPARATION COURSES REQUIRED FOR TRANSFER

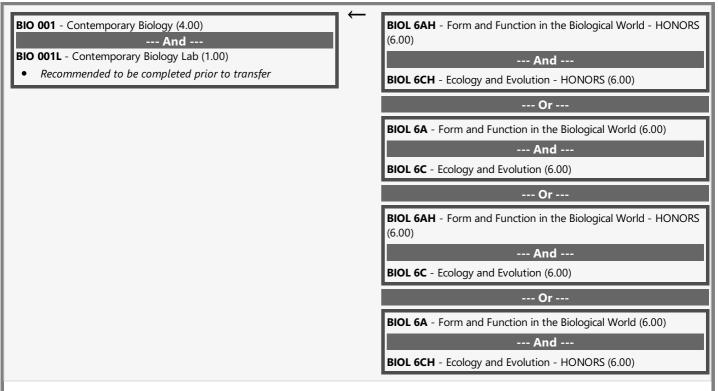
Minimum grade required: C or better Required for admission CHEM 002 - General Chemistry I (4.00) CHEM 1A - General Chemistry (5.00) --- And ---CHEM 1B - General Chemistry (5.00) --- Or ---CHEM 1A - General Chemistry (5.00) --- And ---CHEM 1BH - General Chemistry - HONORS (5.00) --- Or ---CHEM 1AH - General Chemistry - HONORS (5.00) --- And ---CHEM 1BH - General Chemistry - HONORS (5.00) --- Or ---CHEM 1AH - General Chemistry - HONORS (5.00) --- And ---CHEM 1B - General Chemistry (5.00) CHEM 010 - General Chemistry II (4.00) **CHEM 1B** - General Chemistry (5.00) --- And ---CHEM 1C - General Chemistry and Qualitative Analysis (5.00) --- Or ---CHEM 1BH - General Chemistry - HONORS (5.00) --- And ---CHEM 1CH - General Chemistry and Qualitative Analysis -HONORS (5.00)

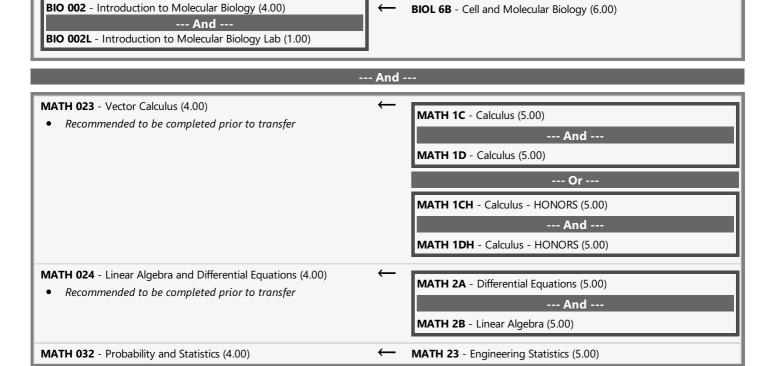


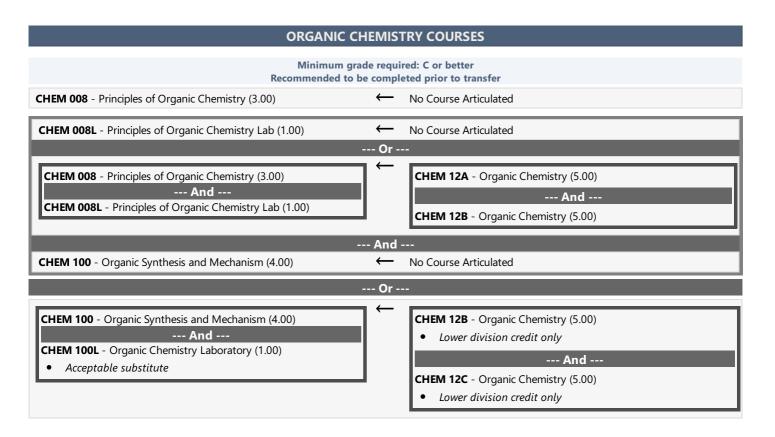


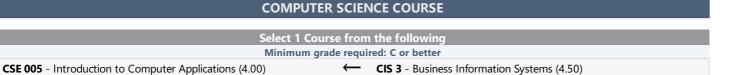
ADDITIONAL MAJOR PREPARATION COURSES

Minimum grade required: C or better









--- Or ---CIS 22A - Beginning Programming Methodologies in C++ (4.50) --- And ---CIS 22B - Intermediate Programming Methodologies in C++ (4.50) --- Or ---CIS 22A - Beginning Programming Methodologies in C++ (4.50) --- And ---CIS 22BH - Intermediate Programming Methodologies in C++ -HONORS (4.50) --- Or ---CIS 27 - Programming in C++ for C/Java Programmers (4.50) --- Or ---CIS 36A - Introduction to Computer Programming Using Java (4.50)--- And ---CIS 36B - Intermediate Problem Solving in Java (4.50) **CIS 41A** - Python Programming (4.50) MATH 015 - Introduction to Scientific Data Analysis (2.00) No Course Articulated **ACADEMIC WRITING - CHOOSE ONE COURSE FROM:** **REFER TO TOP OF AGREEMENT** Minimum grade required: C or better WRI 001 - Academic Writing (4.00) **ESL 5** - Advanced Composition and Reading (5.00) --- Or ---**EWRT 1A** - Composition and Reading (5.00) --- Or ---**EWRT 1AH** - Composition and Reading - HONORS (5.00) --- Or ---**EWRT 1AS** - Intensive Composition and Reading Stretch: First Quarter (5.00) • UC credit limitation applies; refer to UC-transferability list

CIS 26A - C as a Second Programming Language (4.50)

• Effective next fall, this course will no longer articulate

CIS 26B - Advanced C Programming (4.50)

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--- And ---**EWRT 1AT** - Intensive Composition and Reading Stretch: Second

UC credit limitation applies; refer to UC-transferability list

CSE 019 - Introduction to Computing (4.00)

COLLEGE READING AND COMPOSITION - CHOOSE ONE COURSE FROM:

Quarter (5.00)

REFER TO TOP OF AGREEMENT
Minimum grade required: C or better

WRI 010 - College Reading and Composition (4.00)	← co	DMM 9 - Argumentation: Analysis of Oral and Written
	Co	ommunication (5.00)
		Or
	C	DMM 9H - Argumentation: Analysis of Oral and Written
	Co	ommunication - HONORS (5.00)
		Or
	EV	VRT 1B - Reading, Writing and Research (5.00)
		Or
	EV	VRT 1C - Literature and Composition (5.00)
		Or
	EV	VRT 2 - Critical Reading, Writing and Thinking (5.00)
		Or
	EV	VRT 2H - Critical Reading, Writing and Thinking - HONORS (5.00)
		Or
	PI	HIL 3 - Critical Thinking and Writing (5.00)

END OF AGREEMENT