Articulation Agreement by Major

Effective during the 2018-2019 Academic Year

To: University of California, Merced
General Catalog, Semester

From: Santa Ana College
General Catalog, Semester

CHEMICAL SCIENCES, B.S.

THE SCHOOL OF NATURAL SCIENCES

Chemical Sciences, B.S. offers emphases in Chemistry, Biological Chemistry, Materials Chemistry and Environmental Chemistry. Transfer applicants must choose an emphasis in this major.

REQUIREMENTS FOR ADMISSION

For admission to the Chemical Sciences major, students must earn a minimum overall GPA of 2.8 or better, and must complete classes articulated with the following UC Merced courses prior to admission:

- CHEM 2 & CHEM 10
- MATH 21 & MATH 22
- PHYS 8 & PHYS 9

Transfer students seeking fall admission should have the following completed by the spring term preceding fall enrollment at UC Merced:

1. All minimum admissions requirements including appropriate courses in math and the equivalent of WRI 1 and WRI 10 (see articulation by department on ASSIST.org).
2. At least one social science, Humanities or Arts course listed in the general education information for the School of Natural Sciences. Two courses (one from each area) is strongly recommended.
3. All major preparation requirements as stated above.

ADVANCED PLACEMENT INFORMATION

Advanced Placement (AP) and International Baccalaureate (IB) Examination note:

AP and IB examination credit policies are detailed in the 2017-18 UC Merced general catalog viewable online at: http://catalog.ucmerced.edu/content.php?catoid=7&navoid=647#AP_IB

ALERT It is strongly recommended that you obtain a full transcript of your academic records from each of the colleges and universities you have attended before you start your UC application. **Applicants must report ALL grades in ALL courses--transferable and not transferable--from all institutions attended.** Applicants are solely responsible for the integrity of their self-reported academic record in the UC application.

Applicants are encouraged to clear any No Pass, D, or F letter grade received in UC Transfer course. Applicants are most competitive in the Admissions Process with fewer withdrawls and/or repeated course work in major preparation.

All course work must be completed with a 'C' or better.

Following these guidelines will assist you to be more competitive for admission to your UC Merced major.

If you have any questions abour UC Merced admissions policy, please email: **admissions@ucmerced.edu**

Completion of IGETC is not recommended but is accepted for this major.

All course work must be completed with a letter grade of "C" or better.

For the most up-to-date information about transferring to UC Merced, please visit admissions.ucmerced.edu/transfer_requirements.
Information about applying for a Transfer Admission Guarantee is available at admissions.ucmerced.edu/tag.

ADDITIONAL LOWER DIVISION INFORMATION

BIO 1L is recommended, but not required. CHEM 100L credit may be earned, but is not required.

LOWER DIVISION MAJOR PREPARATION COURSES

BIO 1 - Contemporary Biology (4.00) **And** **BIO 1L** - Contemporary Biology Lab (1.00) ▪ Minimum grade required: B or better	←	**BIOL 211** - Cellular and Molecular Biology (5.00) **And** **BIOL 212** - Animal Diversity and Ecology (5.00) **And** **BIOL 214** - Plant Diversity and Evolution (5.00)
CHEM 2 - General Chemistry I (4.00)	←	**CHEM 219** - General Chemistry (5.00) **Or** **CHEM 219H** - Honors General Chemistry (5.00)

CHEM 10 - General Chemistry II (4.00)	←	**CHEM 229** - General Chemistry and Qualitative Analysis (5.00)
CHEM 8 - Principles of Organic Chemistry (3.00) **And** **CHEM 8L** - Principles of Organic Chemistry Lab (1.00)	←	**CHEM 249** - Organic Chemistry I (5.00)
CHEM 100 - Organic Synthesis and Mechanism (3.00) **And** **CHEM 100L** - Organic Chemistry Laboratory (1.00) ▪ Lower division credit only	←	**CHEM 259** - Organic Chemistry II (5.00)
MATH 21 - Calculus I for Physical Sciences & Engineering (4.00)	←	**MATH 180** - Single Variable Calculus I (4.00) **Or** **MATH 180H** - Honors Single Variable Calculus I (4.00)
MATH 22 - Calculus II for Physical Sciences & Engineering (4.00)	←	**MATH 185** - Single Variable Calculus II (4.00)
MATH 23 - Vector Calculus (4.00)	←	**MATH 280** - Intermediate Calculus (4.00)
MATH 24 - Introduction to Linear Algebra and Differential Equations (4.00)	←	**MATH 287** - Introduction to Linear Algebra and Differential Equations (5.00)
MATH 32 - Probability and Statistics (4.00) ▪ Course recommended to be taken at university	←	No Course Articulated
PHYS 8 - Introductory Physics I for Physical Sciences (4.00)	←	**PHYS 217** - Engineering Physics I (4.00)
PHYS 9 - Introductory Physics II for Physical Sciences (4.00)	←	**PHYS 227** - Engineering Physics II (4.00)

COMPLETE ONE OF THE FOLLOWING

CSE 5 - Introduction to Computer Applications (4.00)	←	No Course Articulated
CSE 20 - Introduction to Computing I (2.00)	←	**CMPR 112** - JAVA Programming (3.00) **Or** **CMPR 121** - Programming Concepts (3.00)
MATH 15 - Introduction to Scientific Data Analysis (2.00)	←	No Course Articulated

END OF AGREEMENT