Articulation Agreement by Major

Effective during the 2018-2019 Academic Year

To: University of California, Merced General Catalog, Semester From: Sierra College General Catalog, Semester

EARTH SYSTEMS SCIENCE, B.S.

REQUIREMENTS FOR ADMISSION

For admission to the Earth Systems Science, B.S. major, students must earn a minimum overall GPA of 2.8 or better, and <u>must</u> complete classes articulated with the following UC Merced courses prior to admission:

- $\circ\,$ CHEM 2 and CHEM 10
- MATH 11 or MATH 21
- PHYS 8 or PHYS 18

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 <u>strongly</u> 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 <u>solely responsible</u> 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 <u>admissions.ucmerced.edu/transfer_requirements.</u> Information about applying for a Transfer Admission Guarantee is available at <u>admissions.ucmerced.edu/tag.</u>

ADDITIONAL LOWER DIVISION REQUIREMENTS

In addition to the courses listed below, choose two aditional UC transferable courses in Natural Sciences or Engineering (not geology).

LOWER DIVISION MAJOR PREPARATION COURSES

CHEM 2 - General Chemistry I (4.00)	\leftarrow	CHEM 1A - General Chemistry I (5.00)
		Or
		CHEM 3A - General Chemistry I - Part 1
		(3.00)
		And
		CHEM 3B - General Chemistry I - Part 2
		(3.00)
CHEM 10 - General Chemistry II (4.00)	\leftarrow	CHEM 1B - General Chemistry II (5.00)

COMPLETE OI	COMPLETE ONE OF THE FOLLOWING	
ESS 1 - Introduction to Earth Systems Science (4.00)	←	ESCI 10 - Introduction to Earth Science (3.00)
		And
		ESCI 10L - Introduction to Earth Science
		Laboratory (1.00)
ESS 2 - Sustainability Science (4.00)	\leftarrow	No Course Articulated
BIO 1 - Contemporary Biology (4.00)	_	BIOL 1 - General Biology (4.00)
		And
		BIOL 2 - Botany (4.50)
		And
		BIOL 3 - General Zoology (4.50)

COMPLETE ONE OF THE FOLLOWING

CSE 5 - Introduction to Computer Applications (4.00)	\leftarrow	No Course Articulated
CSE 20 - Introduction to Computing I (2.00)	\leftarrow	CSCI 12 - Programming Concepts and Methodology I (3.00) Or
		CSCI 46 - System Programming with C (3.00)
		Or CSCI 66 - Object-Oriented Programming Using C++ (3.00)
MATH 15 - Introduction to Scientific Da Analysis (2.00)	^{ita} ←	No Course Articulated

COMPLETE CALCULUS I AND II

MATH 11 - Calculus I (4.00)	\leftarrow	No Course Articulated
	Or	
MATH 21 - Calculus I for Physical	\leftarrow	MATH 30 - Analytical Geometry and
Sciences & Engineering (4.00)		Calculus I (4.00)
	And	
MATH 12 - Calculus II (4.00)	\leftarrow	No Course Articulated
	Or	
MATH 22 - Calculus II for Physical	←	MATH 31 - Analytical Geometry and
Sciences & Engineering (4.00)		Calculus II (4.00)

COMPLETE ON	COMPLETE ONE OF THE FOLLOWING	
ECON 10 - Statistical Inference (4.00)	\leftarrow	MATH 13 - Elementary Statistics (4.00)
PSY 10 - Analysis of Psychological Data (4.00)	~~	MATH 13 - Elementary Statistics (4.00) Or PSYC 142 - Introduction to Psychological Statistics (3.00)
MATH 18 - Statistics for Scientific Data Analysis (4.00)	\leftarrow	MATH 13 - Elementary Statistics (4.00)
 MATH 32 - Probability and Statistics (4.00) Course recommended to be taken at university 	~~	No Course Articulated

COMPLETE ONE OF THE FOLLOWING

ESS 10 - Earth Resources (4.00)	←	No Course Articulated
ESS 20 - Fundamentals of Geology (4.00)	←	No Course Articulated
BIO 47 - Astrobiology (4.00) Same-As: ESS 47	\leftarrow	No Course Articulated
ESS 50 - Ecosystems of California (4.00)	\leftarrow	BIOL 14 - Natural History, Ecology and Conservation (4.00) Same-As: ESS 14
BIO 65 - Natural History of Dinosaurs (4.00) Same-As: ESS 65	\leftarrow	No Course Articulated

COMPLETE INTRODUCTORY PHYSICS I AND II

PHYS 8 - Introductory Physics I for	\leftarrow	PHYS 205 - Principles of Physics:
Physical Sciences (4.00)		Mechanics (4.00)
	Or	
PHYS 18 - Introductory Physics 1 for	←	No Course Articulated
Biological Sciences (4.00)		
	And	
PHYS 9 - Introductory Physics II for	\leftarrow	PHYS 210 - Principles of Physics:
Physical Sciences (4.00)		Electricity and Magnetism (3.00)
	Or	
PHYS 19 - Introductory Physics II for	←	No Course Articulated
Biological Sciences (4.00)		

END OF AGREEMENT