School of Natural Sciences — Lower Division Requirements

Applied Mathematical Science	Met	Fall	Spring
MATH 024* MATH 023*			
↓			
MATH 032*			
Select one **Science** course: BIO 001 ESS 001 ESS 005			
Select one **Comp. Sci.** course: ME 021 CSE 020			
Select one **Emphasis**:			
Physics: PHYS 010*			
Economics: ECON 001 ECON 010*			
Computer Science: CSE 030* CSE 031*			
Biology: BIO 001 + L BIO 002*			
Engineering: ENGR 057*			

Chemical Sciences	Met	Fall	Spring
MATH 024* MATH 023*			
↓			
MATH 032*			
Biology course: BIO 001			
Lab recommended			
Select one **Comp. Sci.** course: CSE 005 CSE 020 MATH 015*			
Select one **Emphasis**:			
Chemistry: CHEM 095			
Materials Science: ENGR 045*			
Biology: / Environmental ENGR: *Upper Division (check MyDegreePath)*			

Physics	Met	Fall	Spring
MATH 024* MATH 023*			
↓			
MATH 032*			
Physics course: PHYS 010			
Select one **Comp. Sci.** course: CSE 020 MATH 050*			
Select one course a subject below: CHEM ENGR ESS BIO			
Upper Division options are available.			

Biological Sciences	Met	Fall	Spring
Biology courses: BIO 001 + L			
BIO 002 + L*			
Chemistry courses: CHEM 010*			
CHEM 008*			
Select one **Statistics** course: PSY 010* MATH 018*			
Comp. Sci. course: MATH 015*			

Earth Systems Science	Met	Fall	Spring
Select one course: ESS 001 or ESS 002 BIO 001			
Select one course: ESS 010, 020, 047, 050, 065			
Chemistry courses: CHEM 010*			
Select one **Statistics** course: ECON 010* PSY 010* MATH 018*			
Select one **Comp. Sci.** course: CSE 005 CSE 020 MATH 015*			
Select one **Research** course: ENGR 097 ESS 095			
Upper Division options are available.			

Learn about pre-health options at
prehealth.ucmerced.edu

A successful student is a happy student! Let us help— follow these tips:

- Review sample plans and flow charts for the School of Natural Sciences at http://ns-advising.ucmerced.edu/academics.
- Run MyDegreePath before & after you register.
- If you struggle to pass any math or science courses, see an advisor! We can discuss alternative pathways to your chosen career.
- Utilize a GPA calculator: registrar.ucmerced.edu/gpa_calculator
- See a Peer Academic Advisor: M, W, R (10 am-4 pm); T (10:30 am-4 pm) in Half Dome Learning Center (160)
- Tutoring is a great option for all students! And it's free!
  - The Math Center: mathcenter.ucmerced.edu
  - Peer Assisted Learning Support (PALS): learning.ucmerced.edu
  - The Writing Center: http://library.ucmerced.edu/research/students/writing-center
- Take career assessments to determine the best major for you! Visit hire.ucmerced.edu.

***Prerequisites (◊ may be taken concurrently)**

BIO 002	*CHEM 010*	*CHEM 008*	*CSE 030*	*CSE 031*	*ECON 010*
BIO 001	*CHEM 002*	*CHEM 002 (A-)*	*CSE 021*	*CSE 030*	*MATH 005*
	MATH 011◊	*(or CHEM 010)*			

ENG 045	*ENG 057*	*MATH 015,*	*MATH 023,*	*MATH 018*	*PHYS 010*	*PSY 010*
CHEM 002	*MATH 021*	*MATH 018*	*024, 050*	*MATH 005*	*PHYS 009◊*	*PSY 001*
MATH 021	*PHYS 008*	*MATH 005*	*MATH 022*	*MTH 015*		
PHYS 008				*(or CSE 005/020)*		

Updated 9/27/17