Biology Warriors on the Way to STEM WOW2STEM

Fresno City College

The Department of Biological Sciences attracts students who want to study life in all its grandeur! Questions of how living organisms function and evolve are some of the areas of inquiry pursued. Some students pursue a degree in biology in order to conduct

basic or applied research. Other students complete coursework required for health professional schools, such as medical school.

What can I do with a degree in Biology?

Where can a Biological Sciences degree take you? Physicians, dentists, pharmacists, nurses, clinical laboratory scientists, and physician's assistants all need solid biology backgrounds, as do teachers, veterinarians, plant geneticists, ecologists, podiatrists, horticulturists, and entomologists.

How can I participate in WOW2STEM?

- Meet with a STEM counselor each semester at your community college.
- Follow a student educational plan (SEP) as outlined by a STEM counselor.
- Attend presentations and workshops throughout the year.
- Follow application dates and deadlines as directed by the Transfer Advisor and Stanislaus State.

For more information you may contact:
Elizabeth Monroe, Transfer Specialist 209.667.3164

emonroe@csustan.edu

www.csustan.edu/STEM-success



Dr. Terry Jones is a professor in the Biological Sciences department at Stanislaus State. His current research consists of studying modern animals to discover the biology of extinct animals.

Biology B.A. Roadmap			
Prerequisites to Lower-Division Courses	Lower-Division Courses at Fresno City College	Major Course Requirements at Stanislaus State	
CHEM 1A & MATH 103 MATH 103 (H.S. Chem w/lab, or CHEM 101P or CHEM 3A) & MATH 103	BIOL 11A* & BIOL 11B * (Biology for Science Majors I & II) Or BIOL 4 *& BIOL 6* (Principles of Zoology/Botany) CHEM 1A** (General Chemistry I)	BIOL 3310 - Cellular and Molecular Biology (3 units) BIOL 3350 - Introductory Genetics (3 units) BIOL 3680 - Ecology (4 units) BIOL 4400 - Evolution (3 units)	
CHEM 1A MATH 4A MATH 5B CHEM 1B	CHEM 1B** (General Chem II & Quant) PHYS 2A (General Physics I) or PHYS 4A (Physics for Scientists) or CHEM 28A*** & 29A*** (co-req) (Organic Chem I w/ lab)	Genetics and Biotechnology course (2 units) Structure and Function course (4 units) Diversity and Systematics courses (8 units) Elective courses (10 units)	
*The Biology requirement may be transferred as a series only. Both the lecture and lab must be completed at Fresno City College to receive credit at Stanislaus State. **CHEM 1A & 1B must be completed before transferring to Stanislaus State to ensure timely progress. ***While CHEM 28A & 29A satisfies the Organic Chemistry requirement, it does not count as upper-division units. Upon transfer, four units of upper-division will be required to complete the major.			

For all degree requirements, visit www.csustan.edu/roadmaps

Biology B.S. Roadmap			
Prerequisites to Lower-Division Courses	Lower-Division Courses at Fresno City College	Major Course Requirements at Stanislaus State	
CHEM 1A & MATH 103 MATH 103	BIOL 11A* & BIOL 11B * (Biology for Science Majors I & II) Or BIOL 4* & BIOL 6* (Principles of Zoology/Botany	BIOL 3310—Cellular and Molecular Biology (3 units) BIOL 3350—Introductory Genetics (3 units) BIOL 4400—Evolution (3 units) BIOL 3680—Ecology (4 units) Genetics and Biotechnology course (2 units) Structure and Function course (4 units) Diversity and Systematics courses (8 units) Elective courses (18 units)	
(H.S. Chem w/lab, orCHEM 101P orCHEM 3A) & MATH 103	CHEM 1A **(General Chemistry)		
CHEM 1A	CHEM 1B ** (General Chem II & Quant)		
CHEM 1B	CHEM 28A*** & 29A*** (co-req) (Organic Chem I w/ lab)		
MATH 103 or equivalent	MATH 11 or MATH 42/ PSY 42 (Statistics) Or MATH 5A (Math Analysis I)	Or may choose one OPTIONAL Concentration: Molecular, Cellular, & Microbial Biology Organismal, Ecological, & Evolutionary Biology	
MATH 4B or equivalent	MATH SA (Math Analysis I)	Organismai, Ecologicai, & Evolutionary Biology	
MATH 4A; PHYS 2A	MATH 11 or MATH 42/ PSY 42 (Statistics) Or		
COREQUISITE: MATH 5B	MATH 5A (Math Analysis I)		
*The Biology requirement may be transferred as a series only. Both the lecture and lab must be completed at Fresno City College to receive credit at Stanislaus State.			
**CHEM 1A & 1B must be completed before transferring to Stanislaus State to ensure timely progress.			
***While CHEM 28A/29A satisfies the Organic Chemistry requirement, it does not count as upper-division units. Upon transfer, four units of upper-division will be required to complete the major.			

For all degree requirements, visit <u>www.csustan.edu/roadmaps</u>