

Biology

Warriors on the Way to STEM

WOW2STEM

Las Positas 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**

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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 Las Positas College	Major Course Requirements at Stanislaus State
MATH 55 or MATH 55B Recommended: BIO 30	BIO 1A* (General Botany)	BIOL 3310 - Cellular and Molecular Biology (3 units) BIOL 3350 - Introductory Genetics (3 units) BIOL 3680 - Ecology (4 units) BIOL 4400 - Evolution (3 units) Genetics and Biotechnology course (2 units) Structure and Function course (4 units) Diversity and Systematics courses (8 units) Elective courses (10 units)
MATH 55 or MATH 55B Recommended: BIO 30	BIO 1B *(General Zoology)	
MATH 55 or MATH 55B, CHEM 1A, BIO 1A or BIO 1B	BIO 1C * (Cell & Molecular BIO)	
MATH 55 or MATH 55B , & CHEM 31	CHEM 1A**(Gen Chem I)	
CHEM 1A	CHEM 1B** (Gen Chem II)	
MATH 39 CHEM 1B MATH 1	PHYS 2A (Intro Physics I) or CHEM 12A (Organic Chem I) or PHYS 1A (General Physics I)	
*BIO 1A , 1B, & 1C may be transferred as a series only. Both Lecture and Lab must be completed at Las Positas to receive credit at CSU Stanislaus. **Students must complete CHEM 1A & 1B at Las Positas before transferring to CSU Stanislaus to ensure timely progress. ***While CHEM 12A is accepted in lieu of CHEM 3010/3012, it does not count as upper division units. Upon transfer, four units of upper-division elective units will be required to complete the major. A.A. Degree in Biology offered at Las Positas College.		

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

Biology B.S. Roadmap

Prerequisites to Lower-Division Courses	Lower-Division Courses at Las Positas College	Major Course Requirements at Stanislaus State
MATH 55 or MATH 55B Recommended: BIO 30	BIO 1A* (General 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) Or may choose one OPTIONAL Concentration: Molecular, Cellular, & Microbial Biology Organismal, Ecological, & Evolutionary Biology
MATH 55 or MATH 55B Recommended: BIO 30	BIO 1B *(General Zoology)	
MATH 55 or MATH 55B, CHEM 1A, BIO 1A or BIO 1B	BIO 1C * (Cell & Molecular BIO)	
MATH 55 or MATH 55B , & CHEM 31	CHEM 1A**(Gen Chem I)	
CHEM 1A	CHEM 1B** (Gen Chem II)	
MATH 39 CHEM 1B MATH 1	PHYS 2A (Intro Physics I) or CHEM 12A (Organic Chem I) or PHYS 1A (General Physics I)	
MATH 39, MATH 30 or equivalent MATH 55, MATH 55B or MATH 50	One of the following: MATH 1 (Calculus I) or Math 40 (Statistics)	
CHEM 1B	CHEM 12A*** (Organic Chem I)	
*BIO 1A , 1B, & 1C may be transferred as a series only. Both Lecture and Lab must be completed at Las Positas to receive credit at CSU Stanislaus. **Students must complete CHEM 1A & 1B at Las Positas before transferring to CSU Stanislaus to ensure timely progress. ***While CHEM 12A is accepted in lieu of CHEM 3010/3012, it does not count as upper division units. Upon transfer, four units of upper-division elective units will be required to complete the major.		

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