

GENERAL EDUCATION NEW COURSE CERTIFICATION REQUEST
• AREA B2/B3: Life Science with a Lab Component

*Complete your responses in the corresponding fields in the **GE B2/B3 with Lab Curriculog form***

(GE forms are listed under the “**Courses**” tab in Curriculog)

Part A: B2/B3 Life Science with Lab General Education Learning Outcomes (GELOs) related to course content.

Life Science w/ Lab GELOs this course will address:

B2.1: Students will state or identify accepted modern biological principles and/or use knowledge of those principles to solve problems in the biological sciences.

B2.2: Students will describe and apply the discipline’s primary methods to problems through hypothesis development, critical evaluation of evidence, data collection, fieldwork, and/or employment of mathematical and computer analysis.

B2.3: Students will describe various theories relevant to the discipline.

B2.4: Students will identify the limitations of scientific endeavors.

B2.5: Students will identify and consider the value systems and ethics associated with human inquiry.

B3.1 Students will demonstrate that they can conduct experiments, make observations, or run simulations using protocols and methods common in the scientific discipline in which the course is offered.

B3.2 Students will be able to interpret the results of experiments, observations or simulations, understanding random and systematic errors associated with those activities, and making appropriate conclusions based on theories or models of the scientific discipline in which the course is offered.

**Part B: General Education Learning Outcomes required of all GE courses related to course content:
GE Outcomes required of all Courses**

~Students will communicate effectively in writing to various audiences. (writing)

~Students will think critically and analytically about an issue, idea or problem. (critical thinking)

~Students will find, evaluate and use information appropriate to the course and discipline. (Faculty are strongly encouraged to collaborate with their library faculty.)

Part C: GE Programmatic Goals: The GE program aligns with CSUSM specific and LEAP Goals. All B2/B3 courses must meet at least one of the LEAP Goals.

GE Programmatic Goals

LEAP 1: Knowledge of Human Cultures and the Physical and Natural World.

LEAP 2: Intellectual and Practical Skills

LEAP 3: Personal and Social Responsibility

LEAP 4: Integrative Learning

CSUSM Specific Programmatic Goals

CSUSM 1: Exposure to and critical thinking about issues of diversity.

CSUSM 2: Exposure to and critical thinking about the interrelatedness of peoples in local, national, and global contexts.

Part D: Course requirements to be met by the instructor.

Course Requirements:

~Course meets the All-University Writing requirement: A minimum of 2500 words of writing shall be required in 3+ unit courses.

~Courses in the life sciences will take as their primary focus such concepts found in traditional life science disciplines (e.g., levels of organization of living systems, from molecules to ecosystems, structures and functions of living organisms, principles of genetics, patterns and theories of evolution, interactions of organisms with each other and their environment).

~Courses will require students to develop an understanding of the core information sources and the literature of the science disciplines.

~Courses will require students to think critically so that they are able to distinguish scientific arguments from pseudo-scientific myths or opinions.