BIOLOGY (cont.) 2019 2020 CATALOG

ASSOCIATE DEGREE PROGRAM

Bio	logical	Science —	Associate	in Science
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Required Courses (15 credits)
BIO 201A Biology
BIO 201B Biology
BIO 204 Microbiology
Complete the following group of courses (21-28 credits):
Math 236 or 247
Chem 201A and 201B
Physics 205A and 205B, OR, Physics 208A and 208B and 208C.
MATH 236 Introduction To Applied Statistics
or MATH 247 . Introduction To Statistics(4)
CHEM 201A General College Chemistry I
and CHEM 201B General College Chemistry II5
PHYS 205A General Physics

Click Here for Program Student Learning Outcomes



Highway 1 San Luis Obispo, California 93403

Program Outcome Report for BIOLOGICAL SCIENCE

A: Outcome

Apply the Scientific Method, including developing the ability to design, implement, and critically evaluate a Scientific Study and a Controlled Experiment. Bio 201A

Assessment

Bio 201A

B: Outcome

Write a scientific paper.

Assessment

Bio 201A

C: Outcome

Use the metric system to make measurements of length, volume, and mass.

Assessment

Bio 201A

D: Outcome

Outline the metabolic reactions of living organisms.

Assessment

Bio 201A

E: Outcome

Use a compound light microscope and dissecting microscope to characterize cell structure and organism morphology.

Assessment

Bio 202

F: Outcome

Explain the mechanisms by which cells divide, explain the processes of asexual and sexual reproduction, and place cell division in the context of life cycles.

Assessment

Bio 202

G: Outcome

Explain the basic principles of anatomy and physiology of organisms.

Assessment

Bio 201B

H: Outcome

Outline the taxonomy and phylogenetic relationships of the major groups of organisms.

Assessment

Bio 201B

I: Outcome

Analyze the processes that lead to evolution and explain the role of evolution in life's diversity.

Assessment

Bio 201B

J: Outcome

Define microorganisms; describe their main cell components and the functions of each.

Assessment

Bio 204

K: Outcome

Describe the biological features of major bacterial, virus, fungi and parasite organisms of importance in medicine, industry, biotechnology and environmental systems.

Assessment

Bio 204

L: Outcome

Define the components of the immune system and describe the mechanisms that regulate host-microbe interactions. **Assessment**

Bio 204