

BIOLOGY

Bachelor of Science Degree Requirements – 180 units [NEW PROGRAM]

CSULA | Department of Biological Sciences | 323.343.2050 | Biological Sciences Building 143

Name:	Career Goal:	Date:
CIN:	GE Catalog (Qtr. /Yr.):	Major (Qtr. /Yr.):
Phone:	Student Signature:	
Email:	Advisor Signature:	

GENERAL EDUCATION REQUIREMENTS (60 units)

MATH 204 + BIOL 100A + either CHEM 101 or PHYS 101 double count for A4 + B1 + B2

A: Basic Subjects (16 units) [T] or Qtr./Yr. Grade

A1: Written Communication		
A2: Oral Communication		
A3: Critical Thinking		
A4: Mathematics		

Minimum of C grade required for all courses in Block A. [T]=transfer work.

A1: American Institutions (8 units)

US History		
US Constitution		
California State/Local Government		

B: Natural Sciences (8 units)

B1: Biological (with lab)		
B2: Physical (with lab)		

C: Humanities (12 units; from 3 different areas)

D: Social Sciences (12 units; from 3 different disciplines)

E: Lifelong Understanding (4 units)

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Upper Division Theme (12 units) _____

Natural Science		
Social Science		
Humanities		

Courses listed or cross-listed with major cannot be taken to satisfy theme requirements.

UNIVERSITY REQUIREMENTS (6-8 units)

NSS 101 (or NSS 301 for transfers)		
ENGL 102		
WPE (UNIV 400 or 401)		
(d) Diversity		
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Diversity courses are fulfilled via Blocks C, D, E, or GE theme course with (d)-designation next to the course number.

MAJOR REQUIREMENTS (112-114 units)

Required Courses (89 units) [T] or Qtr./Yr. Grade

BIOL 100A	Introductory Biology I	(5)		
BIOL 100B	Introductory Biology II	(5)		
BIOL 100C	Introductory Biology III	(5)		
BIOL 300	Biometrics	(4)		
BIOL 320	Writing for Biologists	(4)		
BIOL 340	General Genetics	(4)		
BIOL 350	Evolution	(4)		
BIOL 360	General Ecology	(4)		
BIOL 380	Cell Biology	(4)		
CHEM 101	General Chemistry I*	(5)		
CHEM 102	General Chemistry II	(5)		
CHEM 103	General Chemistry III	(5)		
CHEM 291A	Organic Chemistry**	(3)		
CHEM 291B	Organic Chemistry**	(3)		
CHEM 292A	Organic Chemistry Lab**	(2)		
CHEM 301	Organic Chemistry**	(3)		
MATH 204	Applied Calculus I	(4)		
MATH 205	Applied Calculus II	(4)		
MICR 300A	General Microbiology I	(4)		
PHYS 101	Physics	(4)		
PHYS 102	Physics	(4)		
PHYS 103	Physics	(4)		

*Must pass CHEM 101 placement test before enrolling in course; **or one year of organic chemistry with at least one term of lab from an accredited 2-year or 4-year college or university; **NOTE:** BIOL AP score of 4 or 5 fulfills BIOL 100A requirement Submit all AP scores to ADM 409! [T] = transfer work

Electives (23-25 units; min. 16 units from BIOL)

Provide course # & units only after enrollment.

	Qtr./Yr.	Grade

Please check when completed when applying for graduation.

Overall GPA ≥ 2.000:	Units completed at CSULA ≥ 45:
CSULA GPA ≥ 2.000:	UD units completed at CSULA ≥ 36:
Major GPA ≥ 2.000:	Units in major completed at CSULA ≥ 18:
UD units ≥ 60:	Units in GE completed at CSULA ≥ 12:
Total units completed ≥ 180:	

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PREREQUISITES & CO-REQUISITES FOR REQUIRED COURSES

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REQUIRED COURSES				PREREQUISITES & CO-REQUISITES
BIOL	100A	Introductory Biology I	(5)	Co-requisites: College-level English + MATH 104A; CHEM 101 recommended
BIOL	100B	Introductory Biology II	(5)	Prerequisites: MATH 104A + grade of C or better in BIOL 100A; Co-requisite: MATH 105 recommended
BIOL	100C	Introductory Biology III	(5)	Prerequisites: Grades of C or better in BIOL 100A + BIOL 100B
BIOL	300	Biometrics	(4)	Prerequisites: Grade of C or better in BIOL 100C; MATH 105
BIOL	320	Writing for Biologists	(4)	Prerequisites: BIOL 300 + WPE (GWAR)
BIOL	340	General Genetics	(4)	Prerequisite: BIOL 300 (may be taken concurrently)
BIOL	350	Evolution	(4)	Prerequisite: BIOL 340
BIOL	360	General Ecology	(4)	Prerequisite: BIOL 300
BIOL	380	Cell Biology	(4)	Prerequisites: BIOL 100C + CHEM 291A
CHEM	101	General Chemistry I	(5)	Prerequisite: Passing score on CHEM 101 placement test* Co-requisite: MATH 104A
CHEM	102	General Chemistry II	(5)	Prerequisite: CHEM 101
CHEM	103	General Chemistry III	(5)	Prerequisite: CHEM 102
CHEM	291A	Organic Chemistry	(3)	Prerequisite: CHEM 103
CHEM	291B	Organic Chemistry	(3)	Prerequisite: CHEM 291A
CHEM	292A	Organic Chemistry Lab	(2)	Prerequisite: CHEM 291A Co-requisite: CHEM 291B
CHEM	301	Organic Chemistry	(3)	Prerequisite: CHEM 291B
MATH	204	Applied Calculus I	(4)	Prerequisite: MATH 105 with a grade of C or satisfactory score on exit exam for MATH 105. Co-requisite: MATH 204P Applied Calculus I Workshop (1) mandatory for students with a grade below B- in any prerequisite for MATH 204 or students repeating MATH 204.
MATH	205	Applied Calculus II	(4)	Prerequisite: MATH 204 with a grade of C or satisfactory score on exit exam for MATH 204. Co-requisite: MATH 205P Applied Calculus II Workshop (1) mandatory for students with a grade below B- in MATH 204 or students repeating MATH 205.
MICR	300A	General Microbiology I	(4)	Prerequisites: BIOL 100B + CHEM 102
PHYS	101	Physics	(4)	Co-requisite: MATH 104A
PHYS	102	Physics	(4)	Prerequisite: PHYS 101 but professor may waive
PHYS	103	Physics	(4)	Prerequisite: PHYS 102 but professor may waive

PREREQUISITES ARE COURSES THAT YOU MUST PASS PRIOR TO TAKING THE INDICATED COURSE.

CO-REQUISITES ARE COURSES THAT YOU SHOULD TAKE TOGETHER IN SAME QUARTER.

***IF YOU CANNOT PASS THE CHEM 101 PLACEMENT TEST, ENROLL IN CHEM 155.**

**OBTAIN LIST OF APPROVED ELECTIVES FOR BIOLOGY MAJORS FROM DEPARTMENT OFFICE
BEFORE ENROLLING IN ANY ELECTIVE COURSES**

Undergraduates apply to graduate TWO quarters before degree will be finished in specific application windows listed in the Schedule of Classes. Schedule an appointment with the Department Principal Undergraduate Advisor.