

BIOLOGICAL SCIENCES

Curriculum Guide for Academic Year 2011-2012

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Students planning to **transfer** to a four-year college or university should refer to the ASSIST web site at www.assist.org and **consult a counselor** before beginning a program of study. To meet with a counselor call 562-938-4561 for the LAC, or (562) 938-3920 for PCC. Students may also wish to visit the Transfer Center on either campus.

Program of study leading to:
Associate in Arts (A.A.) or Associate in Science (A.S.) Degree

REQUIRED COURSES

Select courses from the following to total 9-12 UNITS

		UNITS	In Progress	Completed Grade
ANAT	Anatomy Courses			
BIO	Biology courses excluding 47, 48, 49			
† PHYSI	Physiology			
Subtotal Units		9-12		

IN ADDITION, complete SIX – NINE (6-9) UNITS from:

		UNITS		
ASTR	Astronomy Courses			
CHEM	Chemistry Courses			
ENVR 1	Energy for the Future	3		
PGEOG	Physical Geography Courses (excluding all other Geography –GEOG—courses)			
GEOL	Geology Courses			
MATH	Math Courses (Excluding MATH 110, 805, 815)			
PHYS	Physics Courses			
Subtotal Units		6-9		
TOTAL UNITS		18		

For graduation with an **A.A. or A.S. Degree with a major in Biological Sciences:**

- Units:** Complete a minimum of 60 units, distributed as follows:

A.A. Degree	Biological Sciences Major	18 Units
	General Education/A.A.	25 Units
	Electives	17 Units
	TOTAL	60 Units

A.S. Degree	Biological Sciences Major	18 Units
	General Education/A.A.	19 Units
	Electives	23 Units
	TOTAL	60 Units

Associate Degree requirements continue on the following page:

Associate Degree requirements continued from the previous page:

2. **Scholarship:** Maintain an **overall grade point average (GPA) of 2.0** ("C" average) based on all accredited college work applied to the degree, no matter where completed. For this **field of concentration, complete each course above with a grade of "C" or better**, or "P" if course is graded on a P/NP basis.
3. **Residence for the Degree:** Complete at least 30 units of the required 60 in residence at LBCC, or complete in residence at LBCC at least 20 units within the last 30 units of work applied to the degree.
4. **Residence for the Field of Concentration:** Complete fifty percent (50%) or more of the unit requirements for this field of concentration in residence; this means at **least 9 units** of the required 18 must be **completed at Long Beach City College**. Credit earned by exam, where applicable, may be included.
5. **General Education and Proficiency Requirements:** Complete the required A.A./A.S. General Education and Proficiency requirements*, otherwise known as "Plan A". For Plan A requirements, refer to the general catalog or view it online at <http://osca.lbcc.edu> .
6. Complete and submit the degree application form to the Admissions and Records office during your final semester of course work. These forms are available in the Admissions and Records office, or online at <http://admissions.lbcc.edu/> . Refer to the Schedule of Classes (<http://schedule.lbcc.edu>) and click the "Important Dates" link to view the actual deadline for each semester.

*The requirements for general education/proficiency and the field of concentration (major) need to be from the same catalog year. This catalog year may be any year between the year of initial enrollment to the present, provided continuous enrollment is maintained throughout. See the catalog for definition of "continuous enrollment".

Unless otherwise noted, "double-counting" is not allowed. That is, one course may not be used to fulfill both a field of concentration requirement and to fulfill a general education requirement.

Career Opportunities

This field of concentration provides the student with an introductory education to this field, not necessarily career related, ending with the associate degree or partial lower-division preparation for transfer to a baccalaureate degree in the biological sciences.

This **Associate Degree** will provide the student with an introductory education to this field of study, not necessarily career related, but ending with the Associate Degree or a partial lower-division preparation for transfer to a Baccalaureate Degree in the biological sciences.

Program Mission and Outcomes

The Program Mission Statement and Student Learning Outcomes for the *Biological Sciences* program is unavailable at this time. Please contact the department for additional information.

Legend

† This course has a prerequisite or recommended preparation. Prerequisite courses must be complete with at least a "C" or "P" grade. Refer to the General Catalog (<http://www.lbcc.edu/cat/index.html>), the Schedule of Classes (<http://schedule.lbcc.edu/>), or the online Credit Course Outline (<http://wdb-asir.lbcc.edu/coursecurriculum/coursedetails/>) for specific prerequisite information.