

PHYSICAL 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 <u>www.assist.org</u> 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: Complete TWELVE-THIRTEEN (12 – 13) UNITS from the following disciplines:								
ASTRONOMY (ASTR) All Courses	†CHEMISTRY—Choose From: CHEM 2 OR CHEM 3 OR CHEM 1A (only one may be used) Any other CHEM course offered at LBCC.	ENVIRONMENTA SCIENCE (ENVRS	_	PHYSICAL G (PGE	EOGRAPHY EOG)			
Any other GEOL course offered at LBCC Choose From: Ph			PHYSICS (PHYS) HYS 2A & 2B OR PHYS 3A & 3B IYS course offered at LBCC.					
COURSE NO.	COURSE TITLE		UNITS	In Progress	Completed Grade			
		Subtotal Units	12 – 13					
IN ADDITION, Complete a Co	omputer Class							
Computer Class—Any cla	iss which satisfies the Technology porequirement for graduation. See the Guide for a complete listing of acce	current General						
COURSE NO.	COURSE TITL	E	1	In Progress	Completed Grade			
		Subtotal Units	1 – 4					

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Associate Degree requirements continue on the following page:

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Associate Degree requirements continued from the previous page:

IN ADDITION, Complete FIVE – SIX (5 – 6) UNITS from any Mathematics course which has a prerequisite of Intermediate Algebra (MATH 130) or higher

COURSE NO.	COURSE TITLE	UNITS	In Progress	Grade
	Subtotal Units	5 – 6		
	TOTAL UNITS	18 – 23		

NOTE: Courses are offered each semester excluding the following:

CHEM 12A and 12B are offered in alternating semesters starting with 12A in the fall semester.

PHYS 2B is offered once each year, usually in the second semester.

PHYS 3C is offered every third semester. GEOL 3 is offered every fourth semester.

PGEOG 2 is offered once each year.

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

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

A.A. Degree	Physical Sciences Major:	18 – 23 units
	General Education/A.A.	25 units
	Electives/Other courses:	12 – 17 units
	TOTAL:	60 units
A.S. Degree	Physical Sciences Major:	18 – 23 units
	General Education/A.S.	19 units
	Electives/Other courses:	18 – 23 units
	TOTAL:	60 units

- 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 12 units** of the required 18 23 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.
- 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.

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Career Opportunities

Students are provided an introduction to the lower division course preparation for transfer to a baccalaureate degree in various physical science majors.

This <u>Associate Degree</u> will prepare students for an entry-level position as laboratory technician. Appropriate course selection will also facilitate transfer in a related major.

Program Mission and Outcomes

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

Legend

† This course has a prerequisite. 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.