

PHYSICAL SCIENCES

Curriculum Guide for Academic Year 2012-2013

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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. Please call 562-938-4561 for the LAC, or (562) 938-3920 for PCC to schedule a meeting with a counselor. 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 THIRTEEN - FIFTEEN (13 - 15) 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)	ENVIRONMENTAL SCIENCE (ENVRS 1)		PHYSICAL GEOGRAPHY All Courses			
	Any other CHEM course offered at LBCC.						
Choose From: GEOL 1	GEOL) OR 1H OR GEOL 2 & 2L urse offered at LBCC.	Choose From: PHYS 2	PHYS 2A 2B or 3B I	HYSICS (PHYS) PHYS 2A or 3A but not both B or 3B but not both ′S course offered at LBCC.			
COURSE NO.	COURSE TITLI	E	UNITS	In Progress	Completed Grade		
		Subtotal Units	13 - 15				
IN ADDITION, Complete a Co	omputer Class						
Computer Class—Any class which satisfies the Technology portion of the Information Competency requirement for graduation. See the current General Education Course Pattern Guide for a complete listing of acceptable courses.							
COURSE NO.	COURSE TITL	E	1	In Progress	Completed Grade		
		Subtotal Units	1 – 4				
Associate Degree requiremen	ts continue on the following page.	:					

Associate I	Dearee	requirements	continued	from	the	previous	page:
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IN ADDITION, Complete FIVE – SIX (5 – 6) UNITS from any Mathematics course which has a prerequisite of Intermediate Algebra (MATH 130) or higher

<u></u>	icii nas a prerequisite or	Intermediate Algebr			In	Completed	
Г	COURSE NO.		COURSE TITLE	UNITS	Progress	Grade	
-		+				┼────┤│	
		1	Subtotal Units	5 – 6			
			TOTAL UNITS	6 19 - 29			
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. Minimum Unit Requirements: Any course that appears on a curriculum guide and the General Education Pattern (Plan A) may fulfill both major and general education requirements (Approved by College Curriculum Committee Spring 2012). For this degree, complete a minimum of 60 units in courses numbered 1-599. Please note that additional elective units may be required to meet this minimum based upon courses selected to fulfill General Education for the Associate Degree. 							
	Degree.	A.A. Degree	Physical Sciences Major: 19	9 - 24 units			
			General Education/A.A. Minimum Total Units:	25 units 60 units			
		A.S. Degree	Physical Sciences Major: 22 General Education/A.S. Electives/Other courses:	2 - 27 units 20 units 60 units			
2	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						
3	3. Residence for the D	Degree: Complete a	graded on a P/NP basis. at least 30 units of the required 6		nce at LBCC,	or complete in	
4	 residence at LBCC at least 20 units within the last 30 units of work applied to the degree. Residence for the Field of Concentration: Complete fifty percent (50%) or more of the unit requirements for this field of Concentration at least 20 units of the unit requirements for this field of Concentration. 						
 concentration in residence; this means at least 9 – 13 units of the required 19 - 27 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 							
6	course work. These fe	the degree application forms are available in le of Classes (<u>http://</u>	ion form to the Admissions and Re n the Admissions and Records offic //schedule.lbcc.edu) and click the	e, or online a	at http://admis	sions.lbcc.edu/ .	
This of	catalog year may be any	y year between the	v and the field of concentration (major year of initial enrollment to the pr n of "continuous enrollment".				

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 for the *Physical Science* program is unavailable at this time. Please contact the department for additional information.

- Differentiate between unsupported opinions and verifiable scientific facts supported by observations, experiments, and scientific theory.
- Demonstrate a basic scientific understanding of a specific field of science by examining and analyzing the nature and content of applicable physical laws.

Legend

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