

# PHYSICAL SCIENCES

## Curriculum Guide for Academic Year 2018-2019

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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](http://www.assist.org) 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:

- |  |   |  |  |
|--|---|--|--|
| <p><b>ASTRONOMY (ASTR)</b><br/>All Courses</p>   | <p>†<b>CHEMISTRY</b>—Choose from: CHEM 2 OR CHEM 3 OR CHEM 1A (but limited to only one of these courses), any among CHEM 1B, CHEM 12A, or CHEM 12B</p>        | <p><b>ENVIRONMENTAL SCIENCE (ENVR 1)</b></p> | <p><b>PHYSICAL GEOGRAPHY</b><br/>All Courses</p> |
| <p><b>GEOLOGY (GEOL)</b><br/>Choose From: GEOL 1 OR 1H OR GEOL 2 &amp; 2L<br/>Any other GEOL course offered at LBCC.</p> | <p>† <b>PHYSICS (PHYS)</b><br/>Choose from: PHYS 2A or 3A but not both<br/>PHYS 2B or 3B but not both, PHYS 3C<br/>Any other PHYS course offered at LBCC.</p> |  |  |

COURSE NO.	COURSE TITLE	UNITS	In Progress	Completed Grade
<b>Subtotal Units</b>		<b>13 - 15</b>		

**IN ADDITION, Complete a Computer 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 TITLE	UNITS	In Progress	Completed Grade
<b>Subtotal Units</b>		<b>1 - 4</b>		

**Associate Degree requirements continue on the following page:**



## Program Mission and Outcomes

The mission of the physical science program is to teach courses which provide an understanding of physical science concepts and thus permit students to transfer to four-year institutions and to enable students to apply the scientific method to gain an evidenced-based understanding of contemporary scientific issues.

### Outcomes

- 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 (<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.