

## AS Physics

The Physics program prepares students for transfer to four year institutions for continued study in the areas of physics, mathematics, engineering and other physics related fields. Physics includes a wide variety of disciplines and specializations, ranging from very practical, technology-driven fields to the study of the fundamental laws and structure of the universe. The program consists of three independent tracts of study. These are Calculus-based Physics, Algebrabased Physics, and Conceptual Physics.

### SEMESTER 1 - FALL

Courses	Units	Prerequisites/Strongly Recommended	Semesters Offered
MATH 39 (Trigonometry)	4	MATH 55 or 55B or 55Y (Pre-Requisite)	Fall, Spring & Summer
ENG 1A (Critical Reading and Composition)	3	ENG 104 or ENG 105 with a "Pass" or ESL 25 or equiv course or appropriate skill level demonstrated through the Eng assessment process (Pre-Requisite)	Fall, Spring & Summer
General Education Course (Social and Behavioral Science)	3		Fall, Spring & Summer
General Education Course (Humanities and American Cultures)	3		Fall, Spring & Summer
<b>SEMESTER TOTAL</b>	<b>13</b>		

### SEMESTER 2 - SPRING

Courses	Units	Prerequisites/Strongly Recommended	Semesters Offered
MATH 20 (Pre-Calculus Mathematics)	5	MATH 39 (Pre-Requisite)	Fall, Spring & Summer
General Education Course (Kinesiology)	1		Fall, Spring & Summer
Elective Course (AA-Degree Applicable)	3		Fall, Spring & Summer
<b>SEMESTER TOTAL</b>	<b>9</b>		

### SEMESTER 3 - SUMMER

Courses	Units	Prerequisites/Strongly Recommended	Semesters Offered
MATH 1 (Calculus I)	5	MATH 20 (Pre-Requisite)	Fall, Spring & Summer
<b>SEMESTER TOTAL</b>	<b>5</b>		

### SEMESTER 4 - FALL

Courses	Units	Prerequisites/Strongly Recommended	Semesters Offered
MATH 2 (Calculus II)	5	MATH 1 (Pre-Requisite)	Fall, Spring & Summer
PHYS 8A (General Physics I)	5	MATH 1 (Pre-Requisite)	Fall & Spring
<b>SEMESTER TOTAL</b>	<b>10</b>		

**SEMESTER 5 - SPRING**

Courses	Units	Prerequisites/Strongly Recommended	Semesters Offered
MATH 3 (Multivariable Calculus)	5	MATH 2 (Pre-Requisite)	Fall & Spring
PHYS 8C (General Physics III)	5	PHYS 8A (Pre-Requisite) and MATH 2 (Pre-Requisite)	Fall & Spring
<b>SEMESTER TOTAL</b>	<b>10</b>		

**SEMESTER 6 - FALL**

Courses	Units	Prerequisites/Strongly Recommended	Semesters Offered
MATH 5 (Ordinary Differential Equations)	3.5	MATH 3 (Pre-Requisite)	Fall & Spring
PHYS 8B (General Physics II)	5	PHYS 8A (Pre-Requisite) and MATH 3 (Pre-Requisite or Co-Requisite)	Fall & Spring
<b>SEMESTER TOTAL</b>	<b>8.5</b>		

**SEMESTER 7 - SPRING**

Courses	Units	Prerequisites/Strongly Recommended	Semesters Offered
MATH 7 (Elementary Linear Algebra)	3.5	MATH 2 (Pre-Requisite)	Fall & Spring
PHYS 8D (General Physics IV)	3	PHYS 8B (Pre-Requisite)	Spring
<b>SEMESTER TOTAL</b>	<b>6.5</b>		
<b>Total Major Coursework</b>	<b>36.5</b>		
<b>Total Units Required (Minimum)</b>	<b>60</b>		

**NOTE:** Completion of LPC's General Education Pattern for Associate in Science Degree is required.

*Last Updated: 12/15/16*