

## AS- Chemistry

The Chemistry degree prepares students for transfer to four-year institutions for continued study in the field of chemistry or for pre-professional studies for medical and dental programs. This program fulfills the lower-division requirements recommended by the American Chemical Society and is typical of requirements at four-year institutions. The program also satisfies lower division requirements in chemistry for engineering and biology transfer majors. General Education courses should be selected carefully to meet the requirements of the intended transfer institution. Some transfer institutions require more general education units than are required by the A.S. degree. Students should consult the catalog of the transfer institution for requirements and should consult a counselor for additional information.

### SEMESTER 1 - SUMMER

Courses	Units	Prerequisites/Strongly Recommended	Semesters Offered
CHEM 31 (Introduction to College Chemistry)	4	Math 55 or 55B or 55Y (Pre-Requisite)	Fall, Spring & Summer
<b>SEMESTER TOTAL</b>	<b>4</b>		

### SEMESTER 2 - FALL

Courses	Units	Prerequisites/Strongly Recommended	Semesters Offered
MATH 39 (Trigonometry)	4	MATH 55 or 55B or 55Y (Pre-Requisite)	Fall, Spring & Summer
CHEM 1A (General College Chemistry I)	5	MATH 55 or 55B or 55Y and CHEM 31. The CHEM 31 prerequisite can be fulfilled by demonstrating the appropriate skill level in the CHEM Placement Process (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 (Kinesiology)	1		Fall, Spring & Summer
<b>SEMESTER TOTAL</b>	<b>13</b>		

### SEMESTER 3 - SPRING

Courses	Units	Prerequisites/Strongly Recommended	Semesters Offered
MATH 20 (Pre-Calculus Mathematics)	5	MATH 39 (Pre-Requisite)	Fall, Spring & Summer
CHEM 1B (General College Chemistry II)	5	CHEM 1A (Pre-Requisite)	Fall, Spring & Summer
General Education Course (Humanities and American Cultures)	3		Fall, Spring & Summer
<b>SEMESTER TOTAL</b>	<b>10</b>		

**SEMESTER 4 - FALL**

Courses	Units	Prerequisites/Strongly Recommended	Semesters Offered
MATH 1 (Calculus I)	5	MATH 20 (Pre-Requisite)	Fall, Spring & Summer
CHEM 12A (Organic Chemistry I)	5	CHEM 1B (Pre-Requisite)	Fall
General Education Course (Social and Behavioral Science)	3		Fall, Spring & Summer
<b>SEMESTER TOTAL</b>	<b>13</b>		

**SEMESTER 5 - SPRING**

Courses	Units	Prerequisites/Strongly Recommended	Semesters Offered
MATH 2 (Calculus II)	5	MATH 1 (Pre-Requisite)	Fall, Spring & Summer
CHEM 12B (Organic Chemistry II)	5	CHEM 12A (Pre-Requisite)	Spring
<b>SEMESTER TOTAL</b>	<b>10</b>		

**SEMESTER 6 - FALL**

Courses	Units	Prerequisites/Strongly Recommended	Semesters Offered
MATH 3 (Multivariable Calculus)	5	MATH 2 (Pre-Requisite)	Fall & Spring
PHYS 8A (General Physics I)	5	MATH 1 (Pre-Requisite)	Fall & Spring
<b>SEMESTER TOTAL</b>	<b>10</b>		

**SEMESTER 7 - SPRING**

Courses	Units	Prerequisites/Strongly Recommended	Semesters Offered
PHYS 8B (General Physics II) OR PHYS 8C (General Physics III)	5	PHYS 8A (Pre-Requisite) and MATH 3 (Pre-Requisite or Co-Requisite)  PHYS 8A (Pre-Requisite) and MATH 2 (Pre-Requisite)	Fall & Spring  Fall & Spring
BIO 40 (Humans and the Environment) OR BIO 30 (Introduction to College Biology) OR CS 1 (Computing Fundamentals 1)	3-4	MATH 65 and Eligibility for ENG 1A (Strongly Recommended) Math 107 (Strongly Recommended)	Fall, Spring & Summer Fall, Spring & Summer Fall & Spring
<b>SEMESTER TOTAL</b>	<b>8-9</b>		
<b>Total Major Coursework</b>	<b>45</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*