

# CHEMISTRY - ASSOCIATE OF SCIENCE DEGREE (AS)

Explore More About This Program: <https://cwi.edu/program/chemistry>

## Degree Quick Facts

- **Instructional School:** Math and Science
- **Department:** Physical Sciences
- **Program Code:** CHEM.AS
- **Program Type:** Academic Transfer
- **Available Fully Online:** No
- **Eligible for Federal Financial Aid:** Yes

## Degree Requirements

Course	Course Title	Min Credits
<b>General Education Requirements</b>		
<i>Complete the following course to fulfill the Connecting with Ideas requirement:</i>		
CWI 101	Connecting With Ideas	3
<i>Complete the following courses to fulfill the GEM 1 requirement:</i>		
ENGL 101	Writing and Rhetoric I	3
ENGL 102	Writing and Rhetoric II	3
<i>Complete the following course to fulfill the GEM 2 requirement:</i>		
GEM 2 - Oral Communication course		2
<i>Complete the following course to fulfill the GEM 3 requirement:</i>		
MATH 147 or MATH 170	College Algebra and Trigonometry Calculus I	5
<i>Complete the following courses to fulfill the GEM 4 requirement:</i>		
PHYS 211	Physics for Scientists and Engineers I	4
PHYS 211L	Physics for Scientists and Engineers I Lab	1
Select one of the following options:		4
Option 1:		
CHEM 101	Introduction to Chemistry <sup>1</sup>	
CHEM 101L	Introduction to Chemistry Lab <sup>1</sup>	
Option 2:		
CHEM 111	General Chemistry I <sup>1</sup>	
CHEM 111L	General Chemistry I Lab <sup>1</sup>	
<i>Complete the following courses to fulfill the GEM 5 requirement:</i>		
GEM 5 - Humanistic & Artistic Ways of Knowing course		3
GEM 5 - Humanistic & Artistic Ways of Knowing course <sup>2</sup>		3
<i>Complete the following courses to fulfill the GEM 6 requirement:</i>		
SCIE 102	Ethics in Science <sup>3</sup>	3
GEM 6 - Social & Behavioral Ways of Knowing course <sup>2</sup>		3
<i>Complete the following course to fulfill the Global Perspectives requirement:</i>		
Global Perspectives course		3
<b>Major Requirements</b>		
CHEM 111	General Chemistry I <sup>4</sup>	3
CHEM 111L	General Chemistry I Lab <sup>4</sup>	1
CHEM 112	General Chemistry II	3
CHEM 112L	General Chemistry II Lab	2
CHEM 298	Organic Chemistry I	3
CHEM 298L	Organic Chemistry I Lab	2
MATH 170	Calculus I <sup>5</sup>	5
Select 1-10 credits from the Major Electives course list below to bring the total credits earned to 60		1-10
<b>Minimum Credit Hours Required</b>		<b>60</b>

- <sup>1</sup> Students who have prior experience with chemistry are strongly encouraged to take the Chemistry Placement exam at the CWI Assessment Center. Passing the Chemistry Placement exam will allow students to register directly into CHEM 111 General Chemistry I and will enable them to complete additional credits from the Major Electives list.
- <sup>2</sup> Course must come from a different discipline.
- <sup>3</sup> This course fulfills the Ethical Reasoning requirement for an associate degree from CWI.
- <sup>4</sup> If students completed CHEM 111 General Chemistry I to fulfill their GEM 4 requirement, they must take an additional four (4) credits of coursework from the Major Electives course list below.
- <sup>5</sup> If students completed MATH 170 Calculus I to fulfill their GEM 3 requirement, they must take an additional five (5) credits of coursework from the Major Electives course list below.

## Chemistry: Major Electives

Course	Course Title	Min Credits
BIOL 111	Biology I	3
BIOL 111L	Biology I Lab	1
CHEM 253	Quantitative Analysis	3
CHEM 253L	Quantitative Analysis Lab	2
CHEM 299	Organic Chemistry II	3
CHEM 299L	Organic Chemistry II Lab	2
MATH 175	Calculus II	4
PHYS 212	Physics for Scientists and Engineers II	4
PHYS 212L	Physics for Scientists and Engineers II Lab	1