

# CHEMISTRY - ASSOCIATE OF SCIENCE DEGREE (AS)

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

## Degree Plan

The course sequence listed below is strongly recommended in order to complete your program requirements. Please register for each semester as shown using the Student Planning tool in myCWI. Plans may be modified to fit the needs of part-time students by adding additional semesters. Consult your advisor for any questions regarding this course sequence plan.

### First Year

Fall	Credit Hours
Select one of the following options (GEM 4):	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 (GEM 4) <sup>1</sup>	
CHEM 111L General Chemistry I Lab (GEM 4) <sup>1</sup>	
CWI 101 Connecting With Ideas	3
ENGL 101 Writing and Rhetoric I (GEM 1) <sup>2</sup>	3
MATH 147 Precalculus (GEM 3) or MATH 170 or Calculus I	5
<b>Total Semester Credit Hours</b>	<b>15</b>

Spring	Credit Hours
CHEM 111 General Chemistry I <sup>3</sup>	3
CHEM 111L General Chemistry I Lab <sup>3</sup>	1
ENGL 102 Writing and Rhetoric II (GEM 1)	3
MATH 170 Calculus I <sup>4</sup>	5
GEM 2 - Oral Communication course	3
<b>Total Semester Credit Hours</b>	<b>15</b>

### Second Year

Fall	Credit Hours
CHEM 112 General Chemistry II	3
CHEM 112L General Chemistry II Lab	2
PHYS 211 Physics for Scientists and Engineers I (GEM 4)	4
PHYS 211L Physics for Scientists and Engineers I Lab (GEM 4)	1
GEM 5 - Humanistic & Artistic Ways of Knowing course	3
Global Perspectives course	3
<b>Total Semester Credit Hours</b>	<b>16</b>

Spring	Credit Hours
CHEM 298 Organic Chemistry I	3
CHEM 298L Organic Chemistry I Lab	2
SCIE 102 Ethics in Science (GEM 6) <sup>5</sup>	3
GEM 5 - Humanistic & Artistic Ways of Knowing course <sup>6</sup>	3
GEM 6 - Social & Behavioral Ways of Knowing course <sup>6</sup>	3

Major Electives	Select the needed amount of credits from the list below to bring the total earned to 60	0-9
<b>Total Semester Credit Hours</b>		<b>14</b>
<b>Minimum Credit Hours Required</b>		<b>60</b>

<sup>1</sup>

<sup>2</sup> It is possible to get prior learning assessment (PLA) credit for ENGL 101 if the student successfully passes ENGL 102. Visit the [CWI Prior Learning Assessment](#) webpage for more information.

<sup>3</sup> If students completed CHEM 111 General Chemistry I to fulfill their GEM 4 requirement, they should complete four (4) credits of coursework from the Major Electives course list instead or complete CHEM 112 General Chemistry II and CHEM 112L General Chemistry II Lab during this semester.

<sup>4</sup> If students completed MATH 170 Calculus I to fulfill their GEM 3 requirement, they should complete five (5) credits of coursework from the Major Electives course list instead.

<sup>5</sup> This course fulfills the Ethical Reasoning requirement for an associate degree from CWI.

<sup>6</sup> Course must come from a different discipline.

## 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

## Additional Advising Notes:

- Students who plan to transfer should select elective courses based on the needs of their transfer institutions. See 2+2 agreements with the appropriate institution for more information.
- Please be sure to check the courses required for your final degree at the four-year institution you plan to attend after finishing at CWI. It is **absolutely imperative** that you know which classes are required to obtain a bachelor's degree at that institution.