

CHEMISTRY - ASSOCIATE OF SCIENCE DEGREE (AS)

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

Plan of Study Guide

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 Student Success 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 ¹	
CHEM 101L	Introduction to Chemistry Lab ¹	
Option 2:		
CHEM 111	General Chemistry I (GEM 4) ¹	
CHEM 111L	General Chemistry I Lab (GEM 4) ¹	
CWI 101	Connecting With Ideas	3
ENGL 101	Writing and Rhetoric I (GEM 1) ²	3
MATH 147 or MATH 170	College Algebra and Trigonometry (GEM 3) or Calculus I	5
Total Semester Credit Hours		15
Spring		
CHEM 111	General Chemistry I ³	3
CHEM 111L	General Chemistry I Lab ³	1
ENGL 102	Writing and Rhetoric II (GEM 1)	3
MATH 170	Calculus I ⁴	5
SCIE 102	Ethics in Science (GEM 6) ⁵	3
GEM 2 - Oral Communication course		2
Total Semester Credit Hours		17

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
Total Semester Credit Hours		16
Spring		
CHEM 298	Organic Chemistry I	3
CHEM 298L	Organic Chemistry I Lab	2
GEM 5 - Humanistic & Artistic Ways of Knowing course ⁶		3
GEM 6 - Social & Behavioral Ways of Knowing course ⁶		3
Major Electives	Select the needed amount of credits from the list below to bring the total earned to 60	1-10
Total Semester Credit Hours		12
Minimum Credit Hours Required		60

- ² 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.
- ³ 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.
- ⁴ 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.
- ⁵ This course fulfills the Ethical Reasoning requirement for an associate degree from CWI.
- ⁶ 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.