

# ENGINEERING - ASSOCIATE OF SCIENCE DEGREE (AS)

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

## Degree Quick Facts

- **Instructional School:** Industry, Engineering, and Trades
- **Department:** Engineering
- **Program Code:** ENGR.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 170	Calculus I	5
<i>Complete the following courses to fulfill the GEM 4 requirement:</i>		
CHEM 111	General Chemistry I	3
CHEM 111L	General Chemistry I Lab	1
PHYS 211	Physics for Scientists and Engineers I	4
PHYS 211L	Physics for Scientists and Engineers I Lab	1
<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>1</sup>		3
<i>Complete the following courses to fulfill the GEM 6 requirement:</i>		
SCIE 102	Ethics in Science <sup>2</sup>	3
GEM 6 - Social & Behavioral Ways of Knowing course <sup>1</sup>		3
<i>Complete the following course to fulfill the Global Perspectives requirement:</i>		
Global Perspectives course		3
<b>Major Requirements</b>		
ENGR 120	Introduction to Engineering	3
ENGR 210	Engineering Mechanics: Statics	3
ENGR 290	Engineering Capstone	2
MATH 175	Calculus II	4
Select 8 credits from the Engineering Technical Electives list below to bring the total credits earned to 60		8
<b>Minimum Credit Hours Required</b>		<b>60</b>

<sup>1</sup> Course must come from a different discipline.

<sup>2</sup> This course fulfills the Ethical Reasoning requirement for an associate degree from CWI.

## Engineering Technical Electives

Course	Course Title	Min Credits
CHEM 112	General Chemistry II	3
CHEM 112L	General Chemistry II Lab	2
CPSC 121	Computer Science I	4
CPSC 221	Computer Science II	3
ENGL 202	Technical Communication	3

ENGR 220	Engineering Mechanics: Dynamics	3
ENGR 240	Introduction to Electrical Circuits	3
GEOL 101	Physical Geology	3
GEOL 101L	Physical Geology Lab	1
MATH 275	Calculus III	4
MATH 285	Differential Equations with Matrix Theory	4
PHYS 212	Physics for Scientists and Engineers II	4
PHYS 212L	Physics for Scientists and Engineers II Lab	1