

ENGINEERING - ASSOCIATE OF SCIENCE DEGREE (AS)

- **Program Code:** ENGR.AS
- **Program Type:** Academic Transfer
- **Available Fully Online:** No
- **Eligible for Federal Financial Aid:** Yes

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

NOTE: Courses required for this program *may* have an additional fee; more information can be found on the [Special Course Fees](#) web page.

Degree Quick Facts

- **Instructional School:** Industry, Engineering, and Trades
- **Department:** Engineering

Degree Requirements

Course	Course Title	Min Credits
General Education Requirements		
CWI 101	Connecting With Ideas	3
<u>Global Perspectives course</u>		3
ENGL 101	Writing and Rhetoric I (GEM 1)	3
ENGL 102	Writing and Rhetoric II (GEM 1)	3
<u>GEM 2 - Oral Communication course</u>		2
MATH 170	Calculus I (GEM 3)	5
CHEM 111	General Chemistry I (GEM 4)	3
CHEM 111L	General Chemistry I Lab (GEM 4)	1
PHYS 211	Physics for Scientists and Engineers I (GEM 4)	4
PHYS 211L	Physics for Scientists and Engineers I Lab (GEM 4)	1
<u>GEM 5 - Humanistic & Artistic Ways of Knowing course</u>		3
<u>GEM 5 - Humanistic & Artistic Ways of Knowing course</u> ¹		3
SCIE 102	Ethics in Science (GEM 6) ²	3
<u>GEM 6 - Social & Behavioral Ways of Knowing course</u> ¹		3
Major Requirements		
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
Minimum Credit Hours Required		60

¹ Course must come from a different discipline.

² 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