

# ENGINEERING - ASSOCIATE OF ENGINEERING DEGREE (AE)

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

## Degree Quick Facts

- **Instructional School:** Industry, Engineering, and Trades
- **Department:** Engineering
- **Program Code:** ENGR.AE
- **Program Type:** Academic Transfer
- **Available Fully Online:** No
- **Eligible for Federal Financial Aid:** Yes

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

## Degree Requirements

Course	Course Title	Min Credits
<b>General Education Requirements <sup>1</sup></b>		
CWI 101	Connecting With Ideas	3
ENGL 101	Writing and Rhetoric I (GEM 1)	3
ENGL 102	Writing and Rhetoric II (GEM 1)	3
COMM 101	Fundamentals of Oral Communication (GEM 2)	3
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>GE Elective course <sup>2</sup></u>		3
<u>GE Elective course <sup>2</sup></u>		3
<b>Major Requirements</b>		
ENGR 120	Introduction to Engineering	3
ENGR 290	Engineering Capstone	2
MATH 175	Calculus II	4
Select credits from the Engineering Technical Electives list below to bring the total credits earned to a minimum of 60 <sup>3</sup>		19
<b>Minimum Credit Hours Required</b>		<b>60</b>

<sup>1</sup> Students who complete the Engineering program should note that the general education (GE) requirements for this program will **NOT** result in GE core completion with regard to transfer. However, the program was specifically created to help make transferring into a four-year Engineering program easier and will result in students being better prepared to transfer at a junior class level.

<sup>2</sup> It is recommended that students select a Humanistic and Artistic Ways of Knowing (GEM 5) course and a Social and Behavioral Ways of Knowing (GEM 6) course to fulfill this requirement.

<sup>3</sup> To determine which courses from the Engineering Technical Electives are most appropriate, consult your advisor and refer to the applicable 2+2 guide.

## 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
ENGR 205	Engineering Graphics	2
ENGR 210	Engineering Mechanics: Statics	3
ENGR 220	Engineering Mechanics: Dynamics	3
ENGR 240	Introduction to Electrical Circuits	3
MATH 153	Statistical Reasoning	3
MATH 230	Introduction to Linear Algebra	3

MATH 275	Calculus III	4
MATH 285	Differential Equations with Matrix Theory <sup>1</sup>	4
PHYS 212	Physics for Scientists and Engineers II	4
PHYS 212L	Physics for Scientists and Engineers II Lab	1

<sup>1</sup> MATH 285 Differential Equations with Matrix Theory is required within the first two years by a majority of four-year Engineering programs at Idaho colleges/universities. It is strongly recommended that students complete it as part of their elective requirement for this program.