Civil Engineering Coursework

Oregon Institute of Technology

REQUIREMENTS FOR CECOP ADMISSION

Junior standing and completed required courses for admission to the upper division degree program by Fall Term of CECOP Year 1.

CLASSES REQUIRED FOR FIRST CECOP INTERNSHIP

ENGR 101	Introduction to Engineering I
ENGR 102	Introduction to Engineering II
CE 203	Engineering Graphics
CE 205	Computational Methods
CE 212	Civil Engineering Materials
CHE 221	General Chemistry w/ Lab
CHE 222	General Chemistry w/ Lab
ENGR 211	Engineering Mechanics: Statics
ENGR 213	Engineering Mechanics: Strength of Materials
GIS 134	Geographic Information Systems
GME 161	Plane Surveying I
MATH 251	Differential Calculus
MATH 252	Integral Calculus
MATH 254N	Multivariable and Vector Calculus
MATH 361	Statistical Methods I
PHY 221	General Physics With Calculus
PHY 222	General Physics With Calculus
COM 111	Fundamentals of Speech
WRI 121	English Composition
WRI 122 or 227	English Composition
CE 311	Introduction to Geotechnical Engineering
CE 331	Structural Analysis
CE 341	Elementary Structural Design
CE 351	Introduction to Transportation Engineering
CE 371	Closed Conduit Design
ENGR 318	Engineering Mechanics: Fluids

ADDITIONAL CLASSES REQUIRED FOR SECOND CECOP INTERNSHIP

MATH 321	Applied Differential Equations
CE 312	Earth Pressures & Foundations
CE 354	Traffic Engineering
CE 374	Hydrology
CE 401/COM 401	Civil Engineering Project I
CE 402	Civil Engineering Project II
CE 405	Sustainability & Infrastructure
CE 442	Advanced Reinforced Concrete Design
OR	
CE 444	Intermediate Steel Design

Additional courses are required and must be taken at the appropriate times to ensure timely graduation. Each student is required to develop an individualized course plan of study with an academic advisor, any deviations must be approved by the academic advisor.

Revised: 02/2025

Oregon TECH
Oregon Institute of Technology

MECOP