

Civil Engineering Coursework OIT

OIT Course #	Generic Description
COURSES REQUIRED FOR CECOP ENTERANCE*	
WR 121	English Composition
SPE 111	Fundamentals of Speech
CIV 101,102,103	Orientation to Civil Engineering
WR 227	Technical Report Writing
PH 221	General Physics With Calculus
PH 222	General Physics With Calculus
PH 223	General Physics With Calculus
CHE 201/204	General Chemistry w/ Lab
CHE 202/205	General Chemistry w/ Lab
MATH 251	Differential Calculus
MATH 252	Integral Calculus
MATH 254N	Multivariable and Vector Calculus
MATH 321	Applied Differential Equations
MATH 361	Statistical Methods I
ENGR 236	Fundamentals of Electrical Circuits
ENGR 211	Statics
ENGR 212	Dynamics
ENGR 213	Strength of Materials
CIV 112	Computer Aided Drafting
GME 161	Surveying I
COURSES REQUIRED FOR 1st CECOP INTERNSHIP*	
ENGR 231	Fluid Mechanics
CIV 328	Structural Analysis
ENGR 407	MECOP/CECOP Engineering Seminar
CIV 321	Soil Mechanics
IMGT 345	Engineering Economics
CIV 245	Survey Applications
CIV 221	Engineering Geology
CIV 315	Fundamentals of Environmental Engineering
MIS 115	Visual BASIC Programming

Civil Engineering Coursework OIT

ADDITIONAL COURSES TO BE COMPLETED BEFORE SECOND INTERNSHIP*	
CIV 331	Reinforced Concrete Design
CIV 371	Introduction to Transportation Engineering
CIV 375	Highway Engineering
ENGR 407	MECOP/CECOP Engineering Seminar
CIV 361	Water and Sewer System Design
CIV 362	Hydrology and Surface Water Management
CIV 358	Project Management
CIV 322	Foundation Engineering
CIV 344	Structural Steel Design
ENGR 355	Thermodynamics (recommended)
ADDITIONAL COURSE TO BE COMPLETED AFTER SECOND INTERNSHIP*	
ENGR 407	MECOP Engineering Seminar

*Deviations must be approved by CECOP Advisor.

Note: Additional courses are required and must be taken at the appropriate times to insure timely graduation. Each CECOP student is required to meet with a Civil Engineering Advisor and develop an individualized course plan of study until graduation.