

CVE 510: GEOTECHNICAL ENGINEERING II (2 Units)

Earth retaining structures to include cantilever and anchored sheet pile walls, strutted excavations. Design of shallow foundations to include strips and rafts. Deep foundation to include piles, piers and caissons. Slope stability and earth dams. Introduction to site investigation to include location of suitable highway subgrade materials. Lateral earth pressures, rigid retaining structures (columb and rankine), flexible retaining structures and foundation bearing and settlement.