SYLLABUS – CE 1004
STATICS
2019-2020 SPRING

Instructor	Dr. Ersan Güray
Institute	Faculty of Engineering - Department of Civil Engineering
Place	CB07
Prerequisite	MATH 1851 – Calculus I
Schedule	Friday 14:30-17:20
Objective	The main objective of this first course of mechanics is to develop in undergraduate engineering student the ability to analyze any statics problem in a simple and logical manner using the principles of equilibrium.
Grading Policy	Midterm Exam - 40 % Final Exam - 60 %
Outline	**1.** Vectors, force vectors, dot and cross product, equivalent systems, definition of moment . **2.** Equilibrium of a Rigid Body, Truss, Truss stability, Internal Forces, Shear Moment diagrams. **3.** Center of Gravity, Centroid, Moments of Inertia. **4.** Virtual Work, Stability of a rigid system.
Textbooks	➢ Hibbeler, R.C., Engineering Mechanics-Statics, SI Edition, Prentice Hall ➢ Ferdinand P. Beer & E.Russel Johnston.Jr. Vector Mechanics for Engineers – Dynamics, SI Edition, McGraw-Hill Book Company ➢ Schaum's Outline of Theory and Problems of Engineering Mechanics, Statics and Dynamics
Link for problem sets and other resources	https://drive.google.com/drive/u/0/folders/1cPDKQ7ecyKHq6InICMNXVR0LxQIiO3Bh or shorturl.at/dgA35