monning <b>E</b> m Enger	
Fall 2022	$\frac{\text{ME 478/578:}}{\lozenge \text{ Basic circuit theory}}$ $\lozenge \text{ Introduction to microcontrollers and systems integration}$ $\lozenge \text{ Communication between electronic systems}$ $\lozenge \text{ Motor control with H-bridge}$
Spring 2022	ME/ECE 360: System Modeling and Control (Undergraduate)  ⟨ Laplace Transforms and Stability of Differential Equations ⟨ Modeling: mass-spring-damper, rigid bodies, dc-motors ⟨ Block Diagrams and System Responses ⟨ Tracking and Disturbance Rejection ⟨ Place Placement, 2-DoF Controllers, and Internal Stability
Fall 2017-2021	$\frac{\text{ME 380: Kinematics and Dynamics of Machines (Undergraduate)}}{\lozenge \text{ Kinematic and dynamic analysis of mechanisms}}$ $\lozenge \text{ Motion planning and synthesis of mechanisms}$ $\lozenge \text{ Kinematic analysis of gears and cams}$
Spring 2018	ME 467–564   ECE 464–564:
<b>Spring</b> 2019	Robotics and Automated Systems (Graduate)
Spring 2021	♦ Kinematic and dynamic analyses of robots
Spring 2023	♦ Navigation and localization of mobile robots
	♦ Motion planning and control of robots
Spring 2020	ME   ECE 597: Optimization Theory and Practice (Graduate)
Fall 2023	
	♦ Unconstrained optimization
	♦ Constrained optimization
	♦ Convex optimization
	♦ Neural network training
Sppr 2015	A short course on Geometric Mechanics
SEI 1 2019	♦ Five 2-hour lectures delivered at University of Naples, Federico II
	♦ Coordinate-free Lagrangian and Hamiltonian Mechanics
	♦ Symmetries and Conservation Laws
	♦ Derivation of Geometric Control Laws
Aug 2013 - May 2014	Teaching Assistant at The University of Texas at Dallas
	SYSM 6302 – Optimization Theory and Practice
	Instructor: Prof. James Primbs
	MECH 6313 – Nonlinear Control Systems
	Instructor: Prof. Mark W. Spong
SEP 2008 - JUNE 2010	Teaching Assistant at Sabanci University
220 22112 2010	ME 303 – Control System Design
	Instructor: Prof. Kemalettin Erbatur
	EE 521 – Kinematics and Dynamics of Mechanisms
	Instructor: Prof. Volkan Patoğlu

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