

****Disclaimer****

This syllabus is to be used as a guideline only. The information provided is a summary of topics to be covered in the class. Information contained in this document such as assignments, grading scales, due dates, office hours, required books and materials may be from a previous semester and are subject to change. Please refer to your instructor for the most recent version of the syllabus.

Spring 2017 EEE 598 Introduction to Electric and Autonomous Vehicles

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Course Objective

This course is designed to provide an introduction to the rapidly evolving field of electric and autonomous vehicles, and their impact to individual's daily life and society in general. The technologies and techniques involved in this field will be discussed, along with their impact to related policy and social infrastructure.

Course Outline

Electric Vehicles:

- Introduction
- Electric Motor
- Power Semiconductor
- Power electronics
- Energy sources: Battery and Others

Autonomous Vehicles

- System Architecture
- Sensors
- Actuators
- Vehicle-to-Vehicle, Vehicle-to-Infrastructure Communications
- Intelligence

Course Materials

There will be reference books, online materials, as well as literatures surveys.