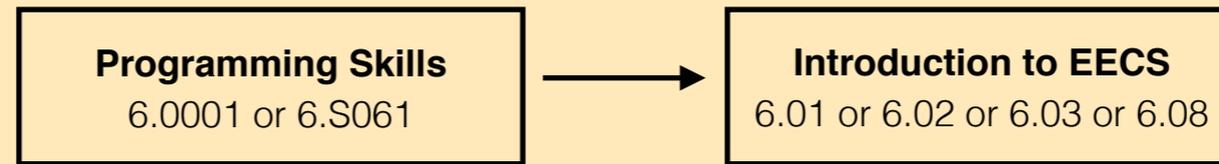


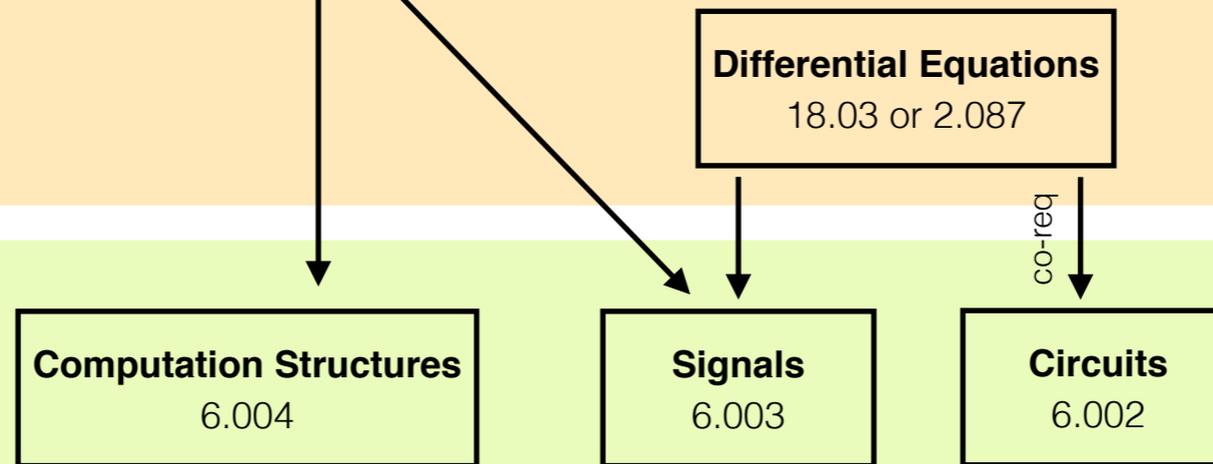
# 6-1: Electrical Science and Engineering

The 6-1 curriculum builds primarily on the **Physics II and Calculus II GIRs**; not all subjects require a GIR as a pre-requisite

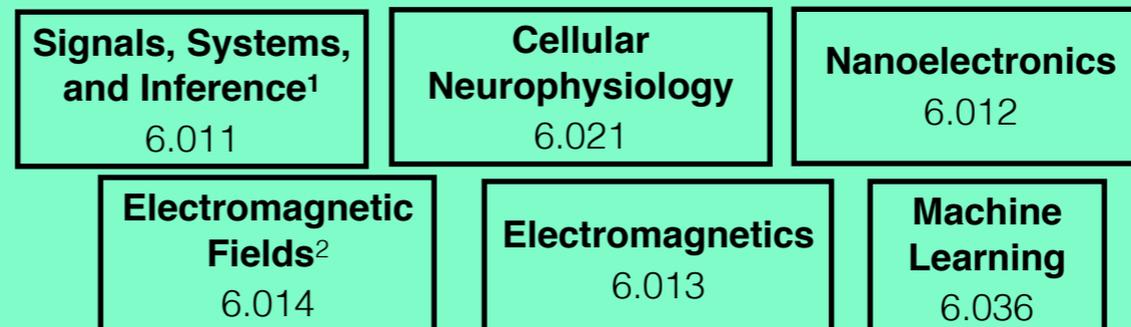
**introductory subjects** introduce students to the breadth of our department, and teach fundamental skills for electrical engineering and computer science



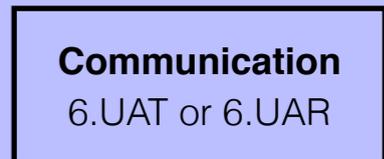
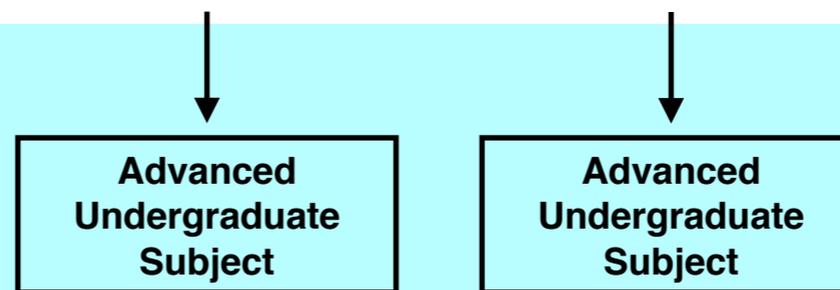
**foundation subjects** build on introductory material



students choose three **header subjects**, which typically rely on a foundation course as a pre-requisite



**advanced undergraduate subjects** build on header material; exact pre-requisites vary



three additional subjects are typically taken in the junior or senior year

<sup>1</sup> 6.011 also requires a probability prerequisite

<sup>2</sup> 18.03 is also a prerequisite of 6.014

This is a common roadmap for 6-1, but many permutations are possible. For instance, there is a significant amount of flexibility in what order students take their foundations, and in whether they finish their foundations before taking any headers.

**Semester 1:** Programming skills, Differential Equations

**Semester 2:** Introduction to EECS, Foundation #1

**Semester 3:** Foundation #2, Foundation #3

**Semester 4:** Header #1, Header #2

**Semester 5:** Header #3, AUS #1

**Semester 6:** AUS #2, Course 6 Elective #1

6.UAT or 6.UAR and the second Course 6 elective are typically taken at some point during semesters 4-6