ECE 203 Notes

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Hi there, I want to preface this booklet by saying this is NOT a comprehensive all-you-need-to-know note document for the class ECE 203 which, by the way, is called *Signals, Information and Computation* if you did not know already. All the concepts talked about here will be related to the material discussed in class with a couple practice questions thrown in for good measure. Hope you find it useful!

*Some material is sourced from external sources.

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1 Course Introduction

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$E = mc^2$ is typeset in a paragraph using inline math mode—as is $E = mc^2$, and so too is $E = mc^2$.

2 Sinusoids

3 Introduction to MATLAB

4 Complex Numbers, Euler's Formula, Complex Sinusoids

5 Spectrum, Multiplication of Sines, AM, Periodicity

6 AM and beats, FM chirps, Spectrogram Lab

7 Fourier Series by Inspection

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9 Fourier Series by Integration, Square Wave

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12 Music Synthesis 2 Lab

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