[2019 Course Site on Archieve.org](https://web.archive.org/web/*/http:/www.ece.tufts.edu/es/4/*)

[VHDL](https://vhdlweb.com/assignments)

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# Week 1

## Introduction

#### [Welcome](https://youtu.be/Njzzzaac9Cc)

#### [About the course](https://youtu.be/FQXZGE8jD7U)

#### [Success, learning, and inclusion in this course](https://youtu.be/qew6-YbIMyo)

#### Read [learning guide](http://www.ece.tufts.edu/es/4/es4-learningguide-sp21.pdf)

#### Sign up on [Campuswire](https://campuswire.com/c) (see email invite)

#### Sign up on [Gradescope](https://gradescope.com/) (see email invite)

#### Complete welcome survey (link posted on Campuswire)

## Numbers in binary

#### Harris 1.4.1-1.4.5 (Representing numbers in binary)

#### [Converting decimal to binary (Khan Academy)](https://www.khanacademy.org/math/algebra-home/alg-intro-to-algebra/algebra-alternate-number-bases/v/decimal-to-binary)

#### [Addition in binary (Khan Academy)](https://www.khanacademy.org/math/algebra-home/alg-intro-to-algebra/algebra-alternate-number-bases/v/binary-addition%22)

#### [Simple app to practice decimal/binary converstion](http://acc6.its.brooklyn.cuny.edu/~gurwitz/core5/binquiz.html)

## Logic gates and Boolean equations

#### Harris 1.5 (Logic gates)

#### Harris 2.1-2.2 (Boolean equations)

## Assignments

#### [How to submit your first quiz with provide](https://youtu.be/3pcX7tiPSbc)

#### [EE/CS Systems guide on SSH](http://systems.eecs.tufts.edu/secure-shell-ssh/)

#### Complete [Quiz 1](http://www.ece.tufts.edu/es/4/quizzes/quiz_01.txt) (due 2/5 via provide)

#### Start [Homework 1](http://www.ece.tufts.edu/es/4/homework/hw1.pdf) (due 2/15 via Gradescope)

## Possibly helpful

#### [Lecture 1 slides (from 2019)](http://www.ece.tufts.edu/es/4/slides/lecture01.pdf)

#### [Lecture 2 slides (from 2019)](http://www.ece.tufts.edu/es/4/slides/lecture02.pdf)

#### [Truth tables to Boolean equations: sum of products (Intermation)](https://youtu.be/13HCv91RGOE)

#### [Truth tables to Boolean equations: product of sums (Intermation)](https://youtu.be/BiSxQjPZ-jA)

## Just for fun

#### [Where did bytes come from? (Computerphile)](https://youtu.be/ixJCo0cyAuA)