# Department of Electrical and Computer Engineering University of Massachusetts Dartmouth ECE160: Foundations of Computer Engineering I 

Spring 2023

## Homework \#1

Name: $\qquad$

Instructor: Dr. Liudong Xing

# ECE160: Foundations of Computer Engineering I 

 (Spring 2023)
## Homework \#1

## Assigned: January 23, Monday <br> Due: January 30, Monday, 9am <br> Instructions:

1. Print your name on the cover page.
2. Give necessary calculation/derivation process for each problem. Penalty will result, otherwise.
3. Please follow the "Submission Guidelines" in the Homework section of the course website to submit your answers to the class M: drive.
4. Relevant lecture notes: Lecture \#2

## Problems:

1. Convert $10100100111_{2}$ to hexadecimal and decimal.
2. Convert $423_{10}$ to binary, hexadecimal, and octal
3. Convert $\mathrm{CAFE}_{16}$ to binary, octal, and decimal
