

## Section 4.4: The Normal Probability

Tuesday, February 6, 2018 4:13 PM

## Distribution

- mound-shaped distributions occur very frequently

$$f(x) = \frac{1}{\sigma\sqrt{2\pi}} e^{-\frac{(x-\mu)^2}{2\sigma^2}}$$

for  $-\infty < x < \infty$

where  $\mu$  and  $\sigma$  are the population mean and standard deviation