Sample Vocabulary Notecards (updated: 9/5/2022)

Learning vocabulary is the first step towards mastering the course material. "Vocabulary" means terminology, formulas, and facts. The most effective way to learn vocabulary is to make a notecard for each vocabulary item. You can use physical cards, like 3 by 5 inch index cards, or you can use some equivalent electronic medium.

A complete notecard must include: the term, formula or fact name; the definition of the term or statement of the fact; and at least one example illustrating the definition or fact. Here are some examples.

FRONT of card, or LEFT column of list: term, formula or fact name	BACK of card, or RIGHT column: definition, statement, example(s)
quadratic polynomial	A <i>quadratic polynomial</i> is an expression of the form $ax^2 + bx + c$, where x is a variable and <i>a</i> , <i>b</i> , <i>c</i> are constants.
	Example: $2x^2 - 3x + 7$ is a quadratic polynomial with $a = 2$, $b = -3$, $c = 7$.
quadratic formula	The quadratic formula If $ax^2 + bx + c = 0$ and $a \neq 0$ then $x = \frac{-b\pm\sqrt{b^2-4ac}}{2a}$. If $b^2 - 4ac < 0$, then there are no real solutions. Example: For $x^2 + 2x - 3 = 0$, use a = 1, b = 2, c = -3 to get $x = \frac{-2\pm\sqrt{4+12}}{2} = -1 \pm 2 = -3, 1$.