**Urinary System Outline**

 \*Know Functions and Organs

Kidneys

* Location
* Anatomy
	+ Renal Hilum Renal Cortex
	+ Fibrous Capsule Renal Medulla
	+ Perirenal Fat Capsule Renal Pelvis
	+ Renal Fascia Renal Calyces
	+ Renal (Medullary) Pyramids Renal Columns
	+ Ureter Renal Arteries and Veins
* Blood Flow (General idea)
* Physiology
	+ Glomerulus and Renal Tubule
	+ Nephrons (Cortical vs. Juxtamedullary)
		- Anatomy
			* Afferent and Efferent Arterioles
			* Glomerulus and Glomerular Capillaries
			* Glomerular Capsule (Bowman’s)
			* Proximal Convoluted Tubule
			* Loop of Henle
			* Distal Convoluted Tubule
			* Collecting Duct
			* Peritubular Capillaries
		- Physiology

Know what occurs at each step – what substances get reabsorbed, retained, and secreted

The pathway through the kidneys in which urine is excreted.

* + - * Glomerular Filtration
			* Tubular Reabsorption
			* Tubular Secretion
			* Maintaining Water Balance
				+ ICF vs. ECF
				+ Osmoreceptors
				+ ADH
			* Regulating Electrolyte Balance
				+ Aldosterone
				+ Renin Angiotensin Mechanism
			* Regulating Blood pH
				+ Bicarbonate Buffer System
				+ Respiratory
				+ Renal Mechanisms

Urinary Bladder, Ureters, Urethra

* Trigone
* Detrusor Muscles
* Transitional Epithelium
* Internal and External Sphincters
* Peristalsis
* Mictrurition