

Links to Videos, AP2 Lecture, 2019

Unit 1 Lecture Topics, Newest Recordings

[AP2 1-01 Intro to AP2](#) 12 min

[AP2 1-02 Erythrocytes, Hb, Sickle Cell Anemia](#) 37 min

[AP2 1-03 Erythropoiesis, Fate of RBCs, Jaundice](#) 29 min

[AP2 1-04 Regulation of Erythropoiesis](#) 20 min

****Please note: Watching these videos is NOT studying. It's the 1st step but not the only step and certainly not the most effective method of learning. To truly learn this material you must utilize 'active learning' techniques such as those found in the handout "Study Techniques the 'A' Students Use."**

[An 'A' student shares her formula for success.](#) 4 min

[AP2 1-05 Hemostasis](#) 26 min

[AP2 1-06 Clot Retraction and Fibrinolysis](#) 38 min

[AP2 1-07 Disorders of Hemostasis \(includes Atherosclerosis\)](#) 27 min

Hemostasis 3 min https://youtu.be/cy3a_OOa2M

DVT Deep Vein Thrombosis 4 min <https://youtu.be/EeNcS9RgZ94>

Atherosclerosis 1 min <https://youtu.be/zfAqC1oPbkw>

****OK, let me encourage you one last time... You are NOT ready for the exam if all you have done is watch these videos. Watching these videos was only the 1st step toward learning. To truly learn this material you must utilize 'active learning' techniques such as those found in the handout "Study Techniques the 'A' Students Use." If you can't teach it, you don't know it.**

[AP2 1-08 Properties of Cardiac Contractile Fibers](#) 15 min

[AP2 1-09 Events of Contraction of Contractile Fibers](#) 32 min

[AP2 1-10 Properties of Cardiac Autorhythmic Fibers](#) 17 min

[AP2 1-11 Clinical Applications](#) 30 min

[AP2 1-12 The Cardiac Cycle](#) 21 min

[AP2 1-13 Cardiac Output, Stroke Volume](#) 41 min

[AP2 1-13B Congestive Heart Failure, CHF](#) 15 min

CHF 3 min <https://www.youtube.com/watch?v=afrRNjsWn9s>

[AP2 1-14 Regulation of Heart Rate](#) 26 min

Unit 2 Lecture Topics, Newest Recordings

[AP2 2-01 Blood Flow, Blood Pressure, and Peripheral Resistance](#) 23 min

[AP2 2-02 Mean Arterial Pressure \(MAP\)](#) 13 min

[AP2 2-03 Maintaining BP via Vasomotor Center & Baroreceptors](#) 27 min

[AP2 2-04 Maintaining BP via Chemoreceptors, Higher Brain Centers, & Hormones](#) 25 min

[AP2 2-05 Maintaining BP via Renal Regulation](#) 15 min

[AP2 2-06 Tissue Perfusion & Local Regulation of BF at Tissues](#) 20 min

Renin Angiotensin Aldosterone System 4 min <https://youtu.be/bY6IWWgFCrQ>

[AP2 2-07 Blood Flow in Special Areas](#) 8 min

[AP2 2-08 Capillary Exchange & Circulatory Shock](#) 40 min
[AP2 2-09 Immunity Intro and Innate \(Nonspecific\) Immunity](#) 12 min
[AP2 2-10 Adaptive \(Specific\) Immunity; Immunocompetence; Bs and Ts](#) 36 min
[AP2 2-11 Antigen Presenting Cells \(APCs\)](#) 5 min
[AP2 2-12 Humoral Response via B Lymphocytes](#) 21 min
[AP2 2-13 Antibodies, Effects of](#) 8 min
[AP2 2-14 Immunological Memory & Vaccines](#) 15 min
[AP2 2-15 Cell Mediated Immune Response via T Lymphocytes](#) 18 min
[AP2 2-16 Antibiotics; Transplant Rejections; Autoimmune Diseases](#) 14 min
[AP2 2-17 Hypersensitivities \(Allergic Reactions\)](#) 41 min

Unit 3 Lectures Topics, Newest Recordings

[AP2 3-01 Respiratory Anatomy](#) 20 min
[AP2 3-02 Pressure Relationships in the Thoracic Cavity](#) 27 min
[AP2 3-03 Pulmonary Ventilation, Boyle's Law, Inspiration, Expiration](#) 20 min
[AP2 3-04 Atelectasis](#) 10 min
[AP2 3-05 Pneumothorax, Hemothorax, Hemopneumothorax, Tension Pneumothorax](#) 30 min
[AP2 3-06 Infant Respiratory Distress Syndrome \(IRDS\)](#) 12 min
[AP2 3-07 Dalton's Law of Partial Pressures](#) 21 min
[AP2 3-08 Henry's Law](#) 16 min
[AP2 3-09 Gas Exchange](#) 24 min
[AP2 3-10 Gas Transport Intro & Vocab](#) 14 min
[AP2 3-11 O₂ and CO₂ Transport](#) 32 min
[AP2 3-11A Vocab Symbols Review](#) 4 min
[AP2 3-12 Cyanosis](#) 9 min
[AP2 3-13 Carbon Monoxide \(CO\) Poisoning](#) 16 min
[AP2 3-14 Respiratory Control Centers in the Brain Stem](#) 10 min
[AP2 3-15 Hyperventilation, Compensatory and Noncompensatory](#) 17 min
[AP2 3-16 Hypoventilation, Compensatory and Noncompensatory](#) 9 min
[AP2 3-17 Genesis of RR and Factors Affecting RR and Depth](#) 14 min
[AP2 3-18 Hypoxic Drive](#) 10 min
[AP2 3-19 COPD - Chronic Bronchitis](#) 20 min
[AP2 3-20 COPD - Emphysema](#) 16 min
[AP2 3-21 Tuberculosis \(TB\)](#) 10 min
AP2 3-22 Omitted
[AP2 3-23 Regulation of Body Temperature](#) 13 min
[AP2 3-24 Heat Exhaustion, Heat Stroke, Fever](#) 12 min
[How Smokers will die](#) 1 min
[COPD](#) 8 min

Unit 4 Lecture Topics, Newest Recordings

[AP2 4-01 Renal Fraction, Filtration Fraction, Net Filtration Pressure \(NFP\)](#) 13 min

[AP2 4-02 Glomerular Filtration Rate \(GFR\) and What ifs](#) 33 min
[AP2 4-03 Regulation of NFR and therefore GFR](#) 20 min
[AP2 4-04 Regulation of ECF Concentration and Volume Part 1](#) 24 min
[AP2 4-05 Regulation of ECF Concentration and Volume Part 2](#) 30 min
[AP2 4-06 Renal Clearance, Tubular Max, Solvent Drag](#) 18 min
[AP2 4-07 Fluid Compartments](#) 12 min
[AP2 4-08 Composition of Body Fluids](#) 18 min
[AP2 4-09 Electrolyte Balance - Potassium](#) 25 min
[AP2 4-10 Electrolyte Balance - Calcium](#) 8 min
AP2 4-11 Electrolyte Balance - Sodium and What ifs (find in older recordings as 4-12 and 4-13 below)
older [AP2, 4-12 Electrolyte Balance, Sodium](#) 18 min
older [AP2, 4-13 What ifs... and Clinical Applications - IV Solutions](#) 21 min
[AP2 4-12 Acidosis & Alkalosis](#) 23 min
[AP2 4-13 Causes of Acidosis & Alkalosis](#) 27 min
[AP2 4-14 ABCs of ABGs](#) 27 min
3rd Spacing, 1 page article <http://www.mastattack.org/2014/07/third-spacing/>
ABGs, the Tic Tac Toe method 9 min <https://youtu.be/URCS4t9aM5o>
Homoschlepiens and Water Consumption https://www.homoschlepiens.com/en-US?ref=Google&network=ytv&CmpID=882767196&AgID=43079877046&SL=KW=&MT=&Ad=207017943503&AdPos=none&Device=c&D.Model=&PLCT=youtube.com&Trgt=&clid=Cj0KEQjw-qbLBRD79JWsjuXI784BEiQAftBCI75v2jTp8knL_j9Qj4-G0lnuT9uRzxOWg7IsSPTRc-8aAl_e8P8HAQ
HeatStroke vs Heat Exhaustion 3 min <https://youtu.be/gwAAC9h4M6s>
Diabetic Foot Problems 3 min <https://www.youtube.com/watch?v=oQgH7ja1Qs0&feature=youtu.be>
Heat Transfer Song; Radiation, Conduction, Convection 3 min <https://www.youtube.com/watch?v=yUEPGMnRqGs&feature=youtu.be>
Acidosis and Alkalosis 7 min <https://www.youtube.com/watch?v=Gy-jbJKadaw&feature=youtu.be>
Hyperkalemia 4 min <https://youtu.be/BThaof7tRAs>
Lab Topics Fair Game for Lecture Exam 4
[pH Lab Info section1](#) 20 min
[pH Lab Info section2 - Arterial Blood pH and Maintenance](#) 18 min
[pH Lab info section3 - Buffers](#) w details 22 min
[pH Lab info section4 - Respiratory/Ventilations](#) w details 7 min
[pH Lab info section5 - Renal](#) w details 24 min

Unit 5 Lecture Topics, Newest Recordings

AP2 5-01 [Lab 10 Reproductive Anatomy](#) 1 min [Note: Video was recorded when lab 10 was numbered lab 11.]

Lab 10 Activity Sheets. Please go to [Web of Life](#) for most current.

AP2 5-02 [Lab 11 Part 1 Fertilization thru Placentation](#) 20 min

AP2 5-03 [Lab 11 Part 2 Ectopic thru Birth](#) 20 min

[AP2 5-04 The Ovarian Cycle](#) 35 min
[AP2 5-05 The Uterine Cycle](#) 22min
[AP2 5-06 The Two Cycles Synchronized](#) 3 min
[AP2 5-06A Q&A over cycles](#) 12 min
[AP2 5-07 PMS](#) 18 min
[AP2 5-08 Preeclampsia and Eclampsia](#) 24 min
[AP2 5-09 GDM & Diabetes Insipidus of Pregnancy](#) 11 min
[AP2 5-10 Lactation](#) 12 min
[AP2 5-11 Fetal Circulation and Vascular Shunts](#) 25 min
[AP2 5-12 Birth Defects \(cardiac related\)](#) 18 min [contains non removable static minutes 3 - 6 but voice is still audible in background]
[AP2 5-13 Birth Defects \(not cardiac related\)](#) 17 min
[AP2 5-14 Perimenopause and Menopause](#) 12 min
Your Cycles in 2 min <https://www.youtube.com/watch?v=WOi2Bwvp6hw&feature=youtu.be>
Ovarian Cycle and Ovulation 3 min <https://www.youtube.com/watch?v=nLmg4wSHdxQ&feature=youtu.be>
Ovarian and Menstrual Cycles 4 min <https://www.youtube.com/watch?v=usEIVynA0Ck&app=desktop>
Fetal Circulation in the Heart 4 min <https://www.youtube.com/watch?v=uwswhoKfkmM>
Fetal Circulation 12 min <https://www.youtube.com/watch?v=-IRkisEtzsk&feature=youtu.be>
GDM Gestational Diabetes Mellitus 3 min <https://www.youtube.com/watch?v=155uGwYOUO4>
GDM 9 min <https://www.youtube.com/watch?v=N3jnRuzseoM&feature=youtu.be>
Breast Anatomy and Lactation 8 min <https://youtu.be/bflHwVKgRNE>
Spina Bifida 7 min <https://www.youtube.com/watch?v=jlDZA2PNW2o>
Spina Bifida 2 min <https://youtu.be/ouMi5z1vwbE>
Preeclampsia and Eclampsia 7 min <https://www.youtube.com/watch?v=RB5s85xDshA&feature=youtu.be>
Baby Boy with Anencephaly lives surprisingly long 8 min <https://youtu.be/wu47Bpl4ld8>
Lab Topics Fair Game for Lecture Exam 5
[Lab 10 Reproductive Anatomy](#) 1 min Note: Video was recorded when lab 10 was numbered lab 11.
Lab 10 Activity Sheets. Please go to Web of Life for most current.
[Lab 11 Part 1 Fertilization thru Placentation](#) 20 min
[Lab 11 Part 2 Ectopic thru Birth](#) 20 min