High Yield MCAT Topics Checklist



	BIOLOGY		
Important	 Cytoskeleton Components Anatomy & Life Cycles of Bacteria and Viruses Mitosis and Meiosis Organ Systems (Reproductive, Respiratory, Digestive, Muscular, Skeletal, Integumentary, Circulatory, Excretory, and Lymphatic) DNA Biotechnology 	Classical and Molecular Genetics Enzymes Cell Membrane Nervous System Endocrine System Central Dogma of Biology	
	BIOCHEMISTRY Keep in Mind: Generally, most of Biochem	s very important.	
Important	 □ Structures, Properties and Metabolism of Carbs, Fats, and Proteins □ Gluconeogenesis, Beta-Oxidation, Pentose Phosphate Pathway □ Structures, Properties, and Metabolism of Nucleic Acids □ Membranes 	☐ Aerobic and Anaerobic Respiration (Prokaryotic cells, ETC, TCA, and Glycolysis) ☐ Lab Techniques (Reducing/Non-Reducing SDS-PAGE, PCR, Blots, Ca and Anion Exchange, Ligand affinity) ☐ Enzyme Inhibitions and Kinetics (Michaelis-Menten) ☐ Amino Acids Structures, Chemical Properties + 1-Letter Abbreviations + 3-Letter Abbreviation	
Important	☐ Light and Optics	Circuits Cincuits Cincui	althcare
GI	ENERAL CHEMISTRY		
Important	☐ Periodic Trends	☐ Equilibrium ☐ Bioenergetics (Free Energy, Entropy, Enthalpy) ☐ Gases and Pressure (Ideal Gas Law) ☐ Solubility and Molarity ☐ Basic Chemistry Math ☐ (Balancing Equations, Scientific Notation, Units (SI and conversions)) ☐ Acid/Base (pH, pI, and Buffers) ☐ Stoichiometry	
OI	RGANIC CHEMISTRY		
Important	CNI us CN2 Pagetians	Types of Isomers (Disastereomers, Anomers, Enantiomers, etc.) Lab Techniques (NMR, Chromatography, IR, Distillation, etc.) Functional Groups Bonding (Carbonyl Group)	
	SOCIOLOGY		
Important	Social Determinants of Health	Functionalism vs. Conflict Theory vs. Symbolic Interactionism vs. Social Constructionism Roles, Groups, and Status Social Institutions	
	PSYCHOLOGY		
Important	☐ Stereotype vs. Discrimination vs. Prejudice ☐ Sensation and Perception	Social Perception (Halo Effect, Just World, Primacy/Recency) Classical and Operant Conditioning Attribution Theory Research Design and Interpreting Statistical Data Psychological Disorders Neurobiology and Neurotransmitters Identity and Development Theories (Piaget and Kohlberg) Biases (Cognitive Bias) Theories of Emotion	