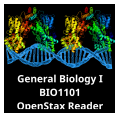


The following lectures are covered on the first exam.
The following lecture schedule contains links to the book sections from [Biology](#) from OpenStax College (CC-BY 4.0)

Week	Lectures	Topic with link to Openstax pages	Openlab Supplement
I	1.	BASICS Introduction to the Course Definition, Characteristics and Hierarchy of Life Scope of Ecology: Habitat, Population, Community, Ecosystem The Scientific Method Evolution and Classification Systematics, taxonomy, phylogeny	Biology Basics
	2.	THE ORIGIN & EVOLUTION OF LIFE Darwin & Evolution The Origin of Life The Geological Time Scale Cellular History Kingdoms and Domains	Evolution and Geological Time
II	3.	INORGANIC CHEMISTRY I Definition, Classification and Properties of Matter Atomic Structure The periodic Table Isotopes Electrons and Energy Energy Chemical Reactions: Exergonic and endergonic Activation Energy Oxidation and Reduction	Chemistry
	4.	INORGANIC CHEMISTRY II Elements, Compounds, Molecules and Mixtures Bonds: Weak and Strong	
III	5.	WATER & pH Importance and Properties of H ₂ O Acids, Bases, pH, Buffers	Water



6. **ORGANIC CHEMISTRY**
Importance of Carbon
Organic vs. Inorganic Compounds
The Hydrocarbons
Functional Groups
Isomers

Organic
Chemistry

- IV 7. **Examination I** (Lectures 1-6 inclusive)