

## **Macromolecules of Life – Lecture 1**

All Life is composed of **Four Basic Molecules**:

### **I. Four Macromolecules**

<b><u>Macromolecule</u></b>	<b><u>Examples</u></b>	<b><u>Monomers</u></b>	<b><u>Jobs</u></b>
<b>Nucleic Acids</b>	<b>DNA; RNA</b>	<b>Nucleotides</b>	<ul style="list-style-type: none"><li>• Store Genetic Information</li><li>• Instructions to make proteins</li></ul>
<b>Proteins</b>	<b>Enzymes; Rhodopsin; insulin</b>	<b>Amino acids</b>	<ul style="list-style-type: none"><li>• Building blocks of cells.</li><li>• Control chemical reactions</li></ul>
<b>Carbohydrates</b>	<b>Sucrose; fructose; Glucose</b>	<b>Mono-saccharide</b>	<ul style="list-style-type: none"><li>• Energy source for cells</li><li>• Stored energy.</li></ul>
<b>Fats</b>	<b>Bilayer</b>	<b>Glycerol</b>	<ul style="list-style-type: none"><li>• Build membranes</li><li>• Stored energy</li></ul>

### VI. **Macromolecule Summary**