

## FUNCTIONAL GROUPS & MACROMOLECULES WORKSHEET

Name \_\_\_\_\_

BIO181 Section 0471 (T/Th)

1. What is a condensation or dehydration reaction? Provide an example.
2. What is a hydrolysis reaction? Provide an example.
3. Distinguish between the major functional groups:

FUNCTIONAL GROUP	STRUCTURAL FORMULA	NAME OF COMPOUND	EXAMPLES
Hydroxyl		Alcohols End in <u>-ol</u>	Ethanol
Carbonyl ( <u>aldehyde</u> )		End in <u>-al</u>	
Carbonyl ( <u>ketone</u> )		End in <u>-one</u>	
Carboxyl		Carboxylic <u>acids</u>	
<u>Amino</u>		End in <u>-ine</u>	
Sulfhydryl		Thiols End in <u>-iol</u>	
Phosphate		Phosphates	