

# Need to Know Reactions Final Exam

Please note that only new reactions are included here. You should also look at the Need TO Know reactions from tests 1-3.

#### **Carbonyl Alpha-Halogenation**

#### **Carbonyl Alpha-Alkylation**

Carbonyl Condensation Note that these could be mixed carbonyls or intramolecular reactions.

## **Michael Addition (carbonyl condensations)**

$$\begin{array}{c} \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \end{array}$$

## **Alkylation of Nitrogen Compounds**

$$NaN_3 \xrightarrow{R'-X} R'-N_3$$

$$\bigcap_{O} N \ominus \longrightarrow \bigcap_{O} N - R'$$

### Reductions

## **Hydrolysis and Eliminations**

$$\begin{array}{c|c}
O & O \\
\hline
O & O \\
\hline
O & O \\
\hline
Heat
\end{array}$$

$$\begin{array}{c|c}
O & O \\
\hline
O & O \\$$

