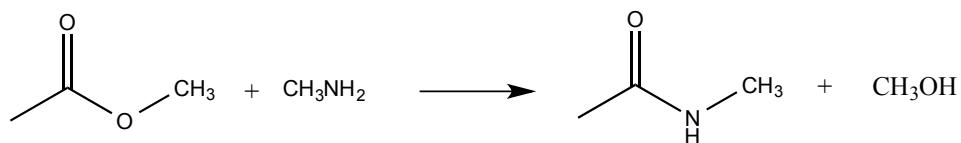


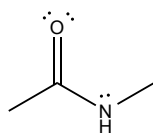
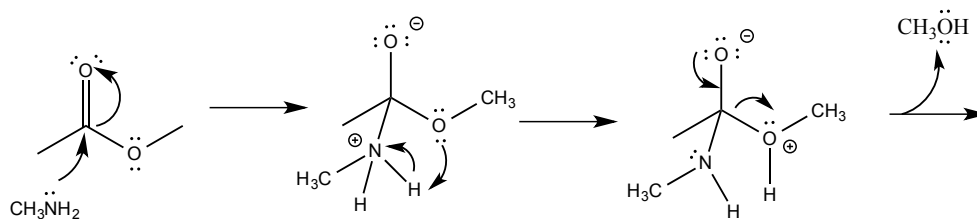
**Chem 345 – Organic Reactions Chapter 21**  
Prepared by José Laboy, MS  
[http: www.chem.wisc.edu/areas/clc](http://www.chem.wisc.edu/areas/clc) (Resource page)

Reaction of Esters With Amines to Form Amides

Reaction:



Mechanism:



Stronger  
C-N bond

The reaction is mainly an irreversible mechanism due to the fact that amide bonds are stronger than ester bonds. Also notice that the tetrahedral intermediate collapses to reform the carbonyl.