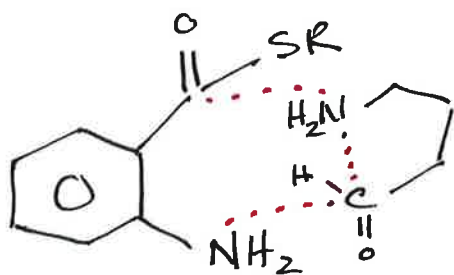


• make those
• hidden C=O

getting started hints:

1. put in your lone pairs so you can identify possible nucleophiles
2. map bond changes (shown above)
3. consider which functional groups use which mechanisms, typically
4. ask yourself what functional groups are present & how these typically form

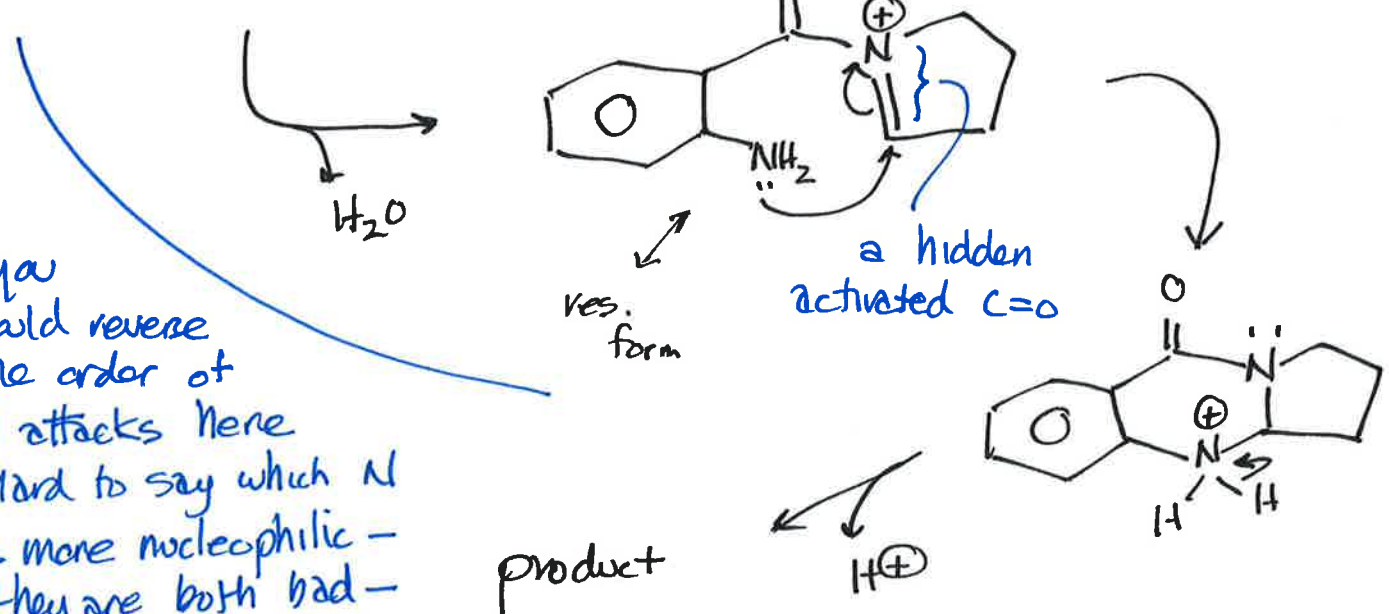
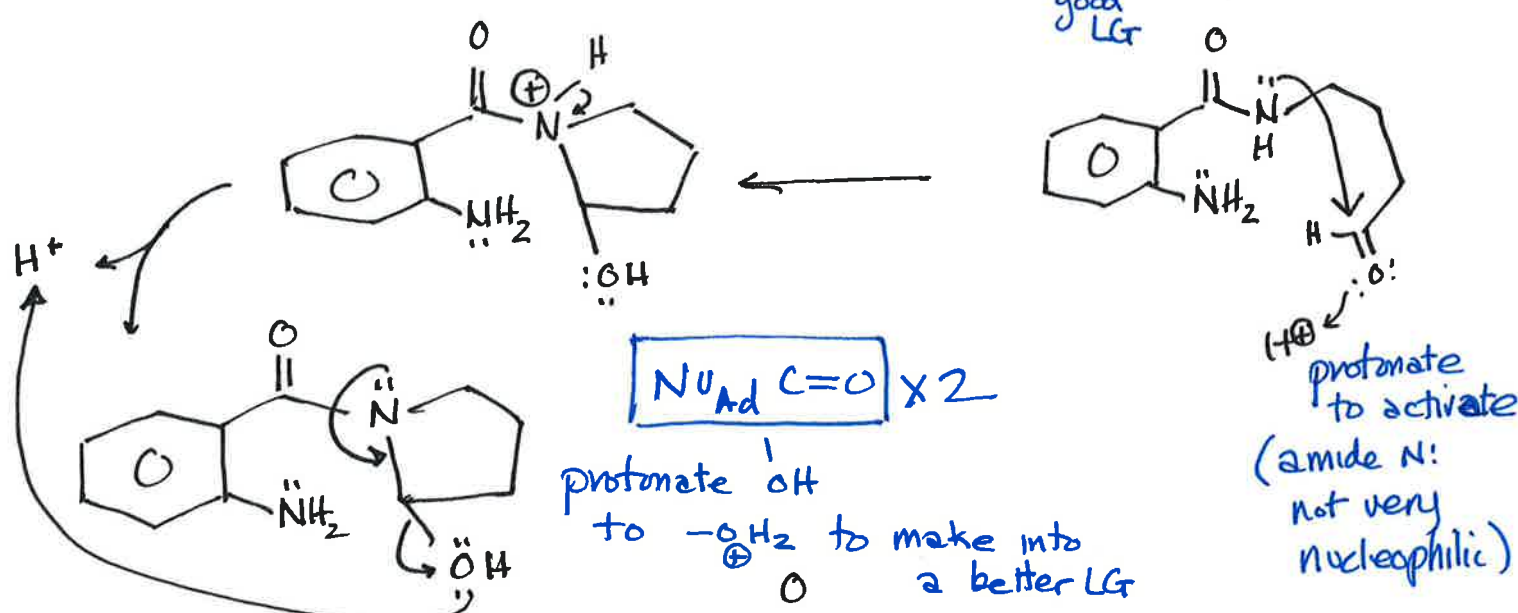
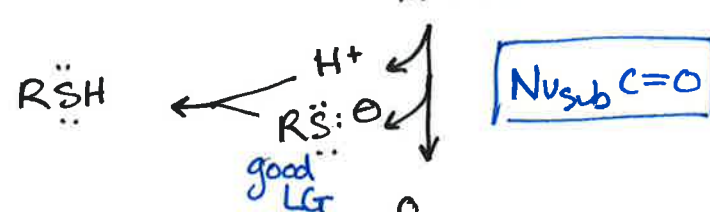
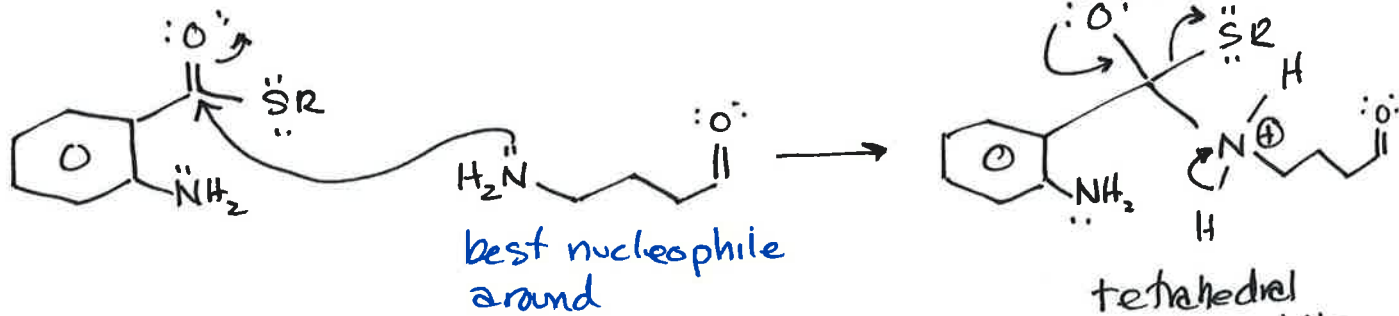
putting this all together you have this as the overall scheme:



.... = connects to be made

now we are ready for the mechanism

Chem 310
B. Hanson
Quiz #4 Key



you could reverse the order of N attacks here (hard to say which N is more nucleophilic - they are both bad - but it works as it is intramolecular)