Academic Honesty Policy. Academic honesty is strictly enforced on quizzes, exams, and other aspects of this course. Academic dishonesty will result in a failing grade in the class and a letter in the student's file. Activities constituting academic dishonesty include:

*Cheating*

- Copying from others during an examination.
- Communicating exam answers with other students during an examination.
- Offering another person's work as one's own.
- Taking an examination for another student or having someone take an examination for oneself.
- Tampering with an examination after it has been corrected, then returning it for more credit.
- Using unauthorized materials, prepared answers, written notes, or concealed information during an examination.

*Dishonest Conduct*

- Stealing or attempting to steal an examination or answer key from the instructor.
- Allowing another student to copy off of one's own work during a test.

*Collusion*

- Any student who knowingly or intentionally helps another student perform any of the above acts is subject to discipline for academic dishonesty.

I understand and will abide by this academic honesty policy: ___________________________ (signature) Seat: ______

1. Draw a stepwise mechanism for the following crossed aldol reaction (Smith 4th ed. 24.6, 2 pts)

![Crossed aldol reaction mechanism](image)

2. What β-ketoester is formed when the following ester is used in the Claisen reaction? (Smith 4th ed. 24.15a, 2 pts)

![Claisen reaction](image)

3. What two β-ketoesters are formed in the Dieckmann reaction of the following diester? (Smith 4th ed. 24.20, 2 pts)

![Dieckmann reaction](image)

4. What starting materials are needed to prepare the following compound by the Michael reaction. (Smith 4th ed. 23.23a, 2 pts)

![Michael reaction](image)

5. Draw the product when the following two compounds undergo Robinson annihilation reaction upon treatment with $\text{CH}_3\text{CH}_2\text{O}^-$ in $\text{CH}_3\text{CH}_2\text{OH}$. (Smith 4th ed. 23.24c, 2 pts)

![Robinson annihilation](image)