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)

```
O
H
HO
–OH
H2O
H
O
O
```

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

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OCH3
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3. What two β-ketoesters are formed in the Dieckmann reaction of the following diester? (Smith 4th ed. 24.20, 2 pts)

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EtO
OEt
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4. What starting materials are needed to prepare the following compound by the Michael reaction. (Smith 4th ed. 24.23a, 2 pts)

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5. Draw the product when the following two compounds undergo Robinson annulation reaction upon treatment with CH₃CH₂O⁻ in CH₃CH₂OH. (Smith 4th ed. 24.24c, 2 pts)

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+ Robinson annulation

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