Testing Options: Via Zoom, On-Site at MSUM, or Using a Proctor Local to You

1. **Testing:** The nature of organic chemistry requires drawing/illustrating complex structures for chemicals, and illustrating electron movements during reaction mechanisms. As such it is not conducive to multiple-choice or short-answer questions. Written tests can be taken either via Zoom, on-site at MSUM, or by using a proctor local to where you live.

2. **Flexible Test Scheduling:** There are **not** fixed tests dates. To some degree, you can make arrangements to take the tests (within limits) at your own schedule.
   - You could individualize your schedule. Gone for a long weekend for a family vacation or a wedding or national guard? Having surgery and missing a week? You could work ahead as needed to ensure the ability to master all of the material.

3. **Testing Options**

   a. **Proctored Testing via ZOOM:** You make arrangements with me; I send you the test; and I monitor you online via ZOOM.
      a. My Zoom-room link: https://minnstate.zoom.us/j/8827046226
      b. Email me to suggest a couple of time slots that could work for you, and I'll try to find one that can fit.
      c. Sometimes by arrangement I'm willing to do testing on Saturdays at 9am central time, or on some weekday evenings at 7pm CST or earlier.

   b. **Testing live at MSUM**: **Hagen 405/407J**.
      - I have a really nice conference room right next to my office.
      - Contact me regarding times that you might like.

   c. Live-Proctored Testing, local to you.
      1) This is not the normal process, but is an option for distance students in case, for whatever reason, the zoom-proctored testing is problematic.
      2) If necessary, this would typically take place at a local college, library, hospital, church or high school, etc., or with some other responsible individual.
      3) If necessary to use this process, **YOU** will need to email me the email, name, phone number, and job for your proctor; and email me a website for the organization that the proctor is a part of. (For example, if your church pastor is going to proctor your exam, I'd like to look him up to make sure he and the church really exist, before calling him to confirm! ☺)
      4) For proctored tests, I will email tests to the proctor who will print them. After a test is done the proctor will scan and email me the answers and destroy the printed

4. **Testing time is 90 minutes**.
      1) Tests are structured so that a well-prepared student should be able to complete a test in 50 minutes or less. But by allowing 90 minutes, that gives extra time to work on problems that you might get stuck on; it provides time to check your work; it provides more space for students who don't work fast; and it provides enough cushion so that you can just focus on your test without being distracted by worrying about the clock.
      2) If you do take proctored tests, you will want to arrange for a 90-minute time block.

5. **TESTS WILL NOT BE RETURNED**. Given the flexible test-scheduling, I will not be able to send you copies of your graded tests. Local students can see graded test in my office, and Zoom-proctored students may have that option too, via zoom share-screen. The inability to return your tests is one aspect of online organic that can't mirror regular class. But no practical way I can get around it. ☹

How can I get off to a good start? Go through the following steps.

1. **Explore the website(s)**: https://collaborate.mnstate.edu/public/blogs/jasperse/online-organic-chemistry-courses/online-organic-chemistry-i-350-summer/ or "classic" site: http://web.mnstate.edu/jasperse/Online/chem350online-Summer.htm
   - Find the links for each of the following, and in each case open and browse a little bit:
     a. Lecture Videos:
     b. Practice Tests:
     c. Syllabus:
     d. Textbook and Materials:
     e. Class Notes:
     f. Quizzes:
     g. Online Homework ("ACHIEVE/SAPLING"):
     h. Test 1 (and 2 and 3 and 4) materials:
     i. General Information about how this online organic chemistry course will work
   - **Links for all of the above, and more, are available on the main website**

2. **Before the class begins**, you'll want to have done the following:
   a. MSUM Registration for the class (assuming you are not an NDSU students registering via tricollege).
      - For distance students, or for NDSU students registering through MSUM (basically students who aren't already MSUM students):
      - http://web.mnstate.edu/jasperse/Online/RegistrationDistanceStudents-Summer.pdf
      - Jasperse video explaining:
        - https://mediaspace.minnstate.edu/media/Online-Registration-OVerview/1_upct9ngb
   b. Order books (used textbook and solutions manual).
      - More info + purchase links: http://web.mnstate.edu/jasperse/Required-Text-and-Materials.pdf
   c. Sign up for ACHIEVE/SAPLING Online Homework: https://achieve.macmillanlearning.com/
      - 2025 Achieve Course ID = e7tk4f
   d. Print Syllabus: http://web.mnstate.edu/jasperse/Online/Syllabus350online-Summer.pdf
   e. Print Class Notes (double-side print, but best to do full-size):
      - http://web.mnstate.edu/jasperse/Online/Classbook-Chem350-online.pdf
      - Buy a big 3-ring binder, and 3-hole punch notes so you can keep them all organized.
   f. Bookmark the main website:
   - https://collaborate.mnstate.edu/public/blogs/jasperse/online-organic-chemistry-courses/online-organic-chemistry-i-350-summer/
   g. View the video in which I talk through the syllabus and the course.
   - Access from main website, under "Organic Chemistry I - Test 1: Introduction & Alkanes"
   - Maybe set the play speed at x1.5, or fast forward through parts!
   h. View Jasperse personal introduction video (with face showing! ☺):
   - https://mediaspace.minnstate.edu/media/350-online+Face-with-Voice-Personal-Intro/1_sasxj5r1

3. **Preparing for Test 1**
   a. Print To-Do Checklist for Test 1: http://web.mnstate.edu/jasperse/Online/Checklist-350Test1.pdf
   b. Review Skills/Competencies for Test 1: http://web.mnstate.edu/jasperse/Online/Objectives350-Test1.pdf
   c. Go through the lectures with the printed notes
      - https://collaborate.mnstate.edu/public/blogs/jasperse/online-organic-chemistry-courses/online-organic-chemistry-i-350-summer/
      - After each lecture, review the material
   d. Do lots of Practice/Homework Problems
      - Many sample practice problems integrated into the lectures
      - Required ACHIEVE/Sapling online homework
      - Practice sets. (Both main website and lectures website link to same sets.)
      - Recommended book homework problems as time permits
   e. Do the required quizzes (there are two for Test 1)
   f. Do the practice tests
   g. Arrange zoom-proctored testing unless you can test at MSUM.

4. Basics of how the course will work:
   - The course will help you master the content through the use of recorded video lectures and detailed notes; through lots of different practice problems in varying formats; and through multiple practice tests that are similar to the real tests.
   - You will have scheduling flexibility in how fast you move and when you schedule your tests.
   - Tests can be taken at MSUM or via zoom.
   - The grade will be 80-85% based on test performance, the rest on required homework and quizzes.

Dates, Flexible Schedules: Go-At-Your-Own-Pace "Asynchronous".

1. FLEXIBILITY. You can schedule your own test dates (so long as you finish all by August 1, 2025)

2. The "Official" semester start date is either May 21 (full-term section) or June 10 (8-week section), 2025
   - But you can start earlier, much earlier, if you want

3. Semester Completion date: August 1, 2025.
   a. You can finish early, and you can start early (or late), but you MUST FINISH BY AUGUST 1
   b. MSUM academic calendar: https://www.mnstate.edu/academiccalendars.aspx

4. YOU CAN START EARLY, AND/OR FINISH EARLY. (But must finish by August 1 deadline.)
   - I will try to have all course materials ready/online by Valentine's Day! ☺☺
   - Since lectures and learning materials are online, you don't need to wait for the official university semester start dates to actually start. You could start sooner.
   - **IF** you want to complete both Organic I and also Organic II this summer, **starting early will help a lot**!

5. "GO AT YOUR OWN PACE"/ASYNCHRONOUS. Self-schedule your tests.
   - As long as you complete all of the tests by the end of the semester (August 1), test dates are otherwise unfixed/undefined. Some suggested planning schedules are shown on the following pages.
   - Online Homework assignments likewise have no fixed due dates, other than end-of-semester
   - For testing with me, whether on campus or via zoom, I will be super flexible. I will be normally be available for testing from 9am-2pm central time every Monday-Tuesday-Wednesday-Thursday. Most Fridays I will be available. Most weekdays I will be available till 5:30, and many weekdays I will have capacity for evening testing as well. Many Saturdays I am available for morning, 9am CST testing, too. So, good chance that I will be available at some times that can fit your schedule. ☺☺
   - You can adjust on the fly, to some degree. For example, suppose you were planning to take Test 1 on a Friday, but you realized that if you could study more over the weekend and take it on Monday instead, you might be much better prepared and do much better. That would be OK. (Of course, it's all too easy to keep "moving tests back" only to run out of time, so be disciplined…)

6. For each individual test, plan to finish the regular lectures a week (or most of a week) prior to when you actually intend to test, so you have time to practice. Practice makes perfect!
   - Organic has LOTS of information. Tests will require that you know how to USE the info.
   - So, doing a lot of practice problems, practice sets, and practice tests is crucial for test preparation.

7. "IT'S EASY TO PROCRASTINATE AND FALL BEHIND. TRY TO SET UP AN AGGRESSIVE SCHEDULE FOR YOURSELF SO THAT YOU SCHEDULE TO GET DONE EARLY. THAT WAY IF YOU DO HAVE SOME SETBACKS, YOU'LL HAVE SOME CUSHION TIME.
   - If you schedule to take the full number of weeks, that will leave you no cushion in case job or other classes or personal issues create a scheduling crisis and leave you unable to prepare adequately.
   - If you schedule to finish early, that provides some "extra" weeks in case you need them.

8. TESTS WILL NOT BE RETURNED. Given the flexible test-scheduling, I will not be able to send you copies of your graded tests. Sorry. ☹ But whether testing on campus with me, or testing via zoom, I can usually grade it for you right away, so you can see how you did and get feedback. The share-screen capacity on Zoom is great for this.

9. The following pages have some info to help with scheduling.

Some Suggested Possible Schedules: Test Scheduling Possibilities (Overview, see p9,10 for details):

	Using 50-minute MSUM Kaltura Videos https://collaborate.mnstate.edu/public/blogs/jasperse/online-organic-chemistry-courses/online-organic-chemistry-i-350-summer/
Test 1	Lectures 1-10 (under "Organic Chemistry I - Test 1…" pulldown)
Test 2	• Lectures 10b-21 (under "Organic Chemistry I - Test 2…" pulldown)
Test 3	• Lectures 22-29 (under "Organic Chemistry I - Test 3…" pulldown)
Test 4	• Lectures 30-39 (under "Organic Chemistry I - Test 4…" pulldown)

~11-week: (see next page for more detailed suggested schedule)

- ~Two-and-a-half weeks per test (17 days)
- Days 1-11: Go through all lecture videos, ACHIEVE/SAPLING online homework, and extra practice sets.
- Days 12-16: Study a lot; go through all the practice sets; complete any quizzes or incomplete ACHIEVE/SAPLING; review lecture video discussion on topics that don't make sense; do all the practice tests. Then take the actual test.
- Test 3 doesn't have as many lectures and shouldn't take as long.
- Test 4 is very hard. It takes longer to understand and master the content.

10-week: (see two pages later for more detailed suggested schedule)

- Two-and-a-half weeks per test (17 days)
- Days 1-11: Go through all lecture videos, ACHIEVE/SAPLING online homework, and extra practice sets.
- Days 12-16: Study a lot; go through all the practice sets; complete any quizzes or incomplete ACHIEVE/SAPLING; review lecture video discussion on topics that don't make sense; do all the practice tests. Then take the actual test.
- This is my recommended plan for students just trying to complete Organic 1 (but not Organic 2!
- Why aim for 10-week schedule?
  - Just get it done a couple of days early? And if you start a couple of days early, you may create a full week of cushion?
  - Provides a couple of days of cushion, for cases when you realize you'll need to spend some extra time on a test. (Especially for the last test, which is typically the hardest.)
  - During last summer, I had >80 students who completed course in 8 weeks or less (some in 6 weeks), so it's certainly possible.
- Test 4 is very hard. It takes longer to understand and master the content.

8-week: (see two pages later for more detailed suggested schedule)

- Two weeks per test
- 8 days: Go through all lecture videos, ACHIEVE/SAPLING online homework, and some extra practice sets.
- Days 9-13: Study a lot; go through all the practice sets; complete any quizzes or incomplete ACHIEVE/SAPLING; review lecture video discussion on topics that don't make sense; do all the practice tests.
- Day 14: Take the actual test.
- Test 4 is very hard. It takes longer to understand and master the content.

~5-week: (see two pages later for more detailed suggested schedule)

- This is geared **for students who want BOTH Organic I AND Organic II during the same summer**
- ~1 week per test
- On this schedule you might routinely be going through three lecture videos (hour-long) per day, plus reviewing them and doing ACHIEVE/SAPLING homework. You may also need to be using some weekend time, perhaps including Memorial Day weekend time.
- First 4-5 days: Go through all lecture videos, ACHIEVE/SAPLING online homework, and some extra practice sets.
- Days 5-7: Study a lot; go through all the practice sets; complete any quizzes or incomplete or incomplete ACHIEVE/SAPLING; review lecture video discussion on topics that don't make sense; do all the practice tests.
- Day 8: Take the actual test.
- Test 4 is very hard. It takes longer to understand and master the content. So be sure to complete Test 3 on schedule.

Note: If you really want to complete both Organic I and Organic II during the summer, but the pacing required for successful completion by August 1 proves to be too fast, contact Dr. Jasperse to discuss possible workarounds.

Possible/Suggested 10-week Schedule (you can personalize it, and start it earlier or later):

- Geared to be non-rushed, but to get everything done one week before the August 1 deadline, and give some July and August free!
- Note: It's really easy to have a plan but then to fall behind. It is wise to plan to complete all the work work a week early. That provides a little bit of cushion, for cases when you realize you'll need to spend some extra time on a test. (Especially for the last test, which is typically the hardest.)
- This is **my favorite, recommended schedule** if you only want to complete Organic I!
- **This should involve about 6 lectures per week.**

	Using 50-minute MSUM Kaltura Videos https://collaborate.mnstate.edu/public/blogs/jasperse/online-organic-chemistry-courses/online-organic-chemistry-i-350-summer/ or classic: http://web.mnstate.edu/jasperse/Online/Lectures350online.html
Test 1 Friday June 6	• Lectures 1-10a • Finish lectures/ACHIEVE/SAPLING by/before Monday, June 2 • Digest/Practice/Integrate Tues-Thurs
Test 2 Wednesday June 25	• Lectures 10a-22a • Finish lectures/ACHIEVE/SAPLING by/before Friday, June 20 • Digest/Practice/Integrate weekend/week
Test 3 Friday July 11	• Lectures 22-29b • Finish lectures/ACHIEVE/SAPLING by Monday, July 7 • Digest/Practice/Integrate week/weekend
Test 4 Friday July 25	• Lectures 30-38 • Finish viewing lectures by Friday, July 19 • Digest/Practice/Integrate rest of week

Suggested ~11-week Schedule: For students in the Full-term May 15-August 1 Section who want to complete Organic I (but not also Organic II during the same summer)

- Note: It's really easy to have a plan but then to fall behind. It is wise to plan to complete work a week early (see the 10-week plan above). That provides a little bit of cushion, for cases when you realize you'll need to spend some extra time on a test. (Especially for the last test, which is typically the hardest.)

	Using 50-minute MSUM Kaltura Videos https://collaborate.mnstate.edu/public/blogs/jasperse/online-organic-chemistry-courses/online-organic-chemistry-i-350-summer/ or classic: http://web.mnstate.edu/jasperse/Online/Lectures350online.html
Test 1 Monday June 9	• Lectures 1-10a • Finish lectures/ACHIEVE/SAPLING by/before Tues, June 3 • Digest/Practice/Integrate rest of week/weekend
Test 2 Thursday June 26	• Lectures 10a-22a • Finish lectures/ACHIEVE/SAPLING by/before Fri, June, June 20 • Digest/Practice/Integrate weekend/week
Test 3 Monday July 14	• Lectures 22-29b • Finish lectures/ACHIEVE/SAPLING by Wed, July 9 • Digest/Practice/Integrate week/weekend
Test 4 Friday August 1	• Lectures 30-38 • Finish viewing lectures by Friday, July 25 • Digest/Practice/Integrate rest of week

Notes on the 11-week schedule:

- On this schedule you might routinely be going through one lecture video (hour-long) per day, plus reviewing them and doing ACHIEVE/SAPLING homework. Complete those far-enough in advance of test days so as to give yourself time to put everything together in advance of a test.
- The lecture videos will be available by Feb 14. So you could start early if you wished.
- **The actual official end-of-semester drop-dead completion deadline is Friday August 1, 2025**.

Suggested 8-week Schedule: For students in the 8-week June 10-August 1 Section

- Geared towards students who are taking just CHEM350-online, starting June 10
- Note: It's really easy to have a plan but then to fall behind.
- I estimate an average of 20 hours-per-week is an appropriate time allocation for a student whose chemistry aptitude is good.

	Using 50-minute MSUM Kaltura Videos https://collaborate.mnstate.edu/public/blogs/jasperse/online-organic-chemistry-courses/online-organic-chemistry-i-350-summer/ or classic: http://web.mnstate.edu/jasperse/Online/Lectures350online.html
Test 1 Monday June 23	• Lectures 1-10a • Finish lectures/ACHIEVE/SAPLING by/before Thursday, June 6 • Digest/Practice/Integrate Friday+Weekend
Test 2 Monday July 7	• Lectures 10a-22a • Finish lectures/ACHIEVE/SAPLING by/before Thursday, July 3 • Digest/Practice/Integrate Friday+Weekend
Test 3 Thursday July 17	• Lectures 22-29b • Finish lectures/ACHIEVE/SAPLING by Sunday, July 13 • Digest/Practice/Integrate Mon-Wed
Test 4 Friday August 1	• Lectures 30-38 • Finish viewing lectures by Monday, July 28 • Digest/Practice/Integrate Mon-Thurs

Notes on the 8-week schedule:

- On this schedule you might routinely be going through 6-7 lecture videos (hour-long) per week, plus reviewing them and doing ACHIEVE/SAPLING homework. Then you'd have several days to study for tests.
- The lecture videos will be available by Feb 14. So you could start early if you wished.

Suggested 5-week Schedule May 15-June 21**:**

- **For students who want BOTH Organic I AND Organic II during the same summer.**
- Basic time frame for this suggestion: May 15-June 22 (~5 weeks) for Organic I, then June 22-August 1 (~5 weeks) or Organic II.
- **Starting sooner would sure help!**
- If you drag beyond 5 weeks for Organic I, it will only leave you less time for Organic II! ☺
- Note: Completing both courses in <11 weeks requires a very serious commitment and a lot of time. I estimate an average of ~32 hours-per-week is an appropriate time allocation.
    - In other words, completing both Organic I and Organic II while also working fulltime at a job is not going to work! ☺

	Using 50-minute MSUM Kaltura Videos https://collaborate.mnstate.edu/public/blogs/jasperse/online-organic-chemistry-courses/online-organic-chemistry-i-350-summer/ or classic: http://web.mnstate.edu/jasperse/Online/Lectures350online.html
Test 1 Thursday May 29	• Lectures 1-10a • Finish lectures/ACHIEVE by/before Monday, May 26 • Digest/Practice/Integrate Tues+Wed
Test 2 Monday June 9	• Lectures 10a-22a • Finish lectures/ACHIEVE by Thursday, June 5 • Digest/Practice/Integrate Fri+Sat+Sun
Test 3 Tuesday June 16	• Lectures 22-29b • Finish lectures/ACHIEVE by Thursday, June 12 • Digest/Practice/Integrate Fri+Sat+Sun
Test 4 Wednesday June 25	• Lectures 30-38 • Finish viewing lectures by Sunday, June 19 • Digest/Practice/Integrate Sun+Mon+Tues (hard one)

Notes on the 5-week schedule:

- On this schedule you might routinely be going through three lecture videos (hour-long) per day, plus reviewing them and doing ACHIEVE homework. You likely need to be using weekend time.
- The lecture videos will be available as of Feb 14. So you could start early if you wished.
- Starting early, by Monday May 12, or preferably week(s) before that, would relieve some pressure.

On-Line Lectures: https://collaborate.mnstate.edu/public/blogs/jasperse/online-organic-chemistry-courses/online-organic-chemistry-i-350-summer/
or classic lecture website: http://web.mnstate.edu/jasperse/Online/Lectures350online.html

1. These are normally recorded "Kaltura" lectures from an earlier semester's face-to-face class. You will see and hear exactly what a student would see in a regular face-to-face class.
2. Because the video lectures were actually recorded previously, they often mention ACHIEVE/Sapling due dates, test days, or days of the week that won't make any sense to you. Beware of those!
3. While there are additional study materials and videos, the main lecture videos are normally 50-minutes in length.
4. There are 39 such lectures.
5. "Watching" videos is one thing; understanding everything enough to do everything yourself is quite another! Getting a good grade in organic chemistry is definitely not a spectator sport!
6. **Normally you'll have wanted to work through all the lectures up to a week before taking a test, so that you've got time to practice, review, integrate, and synthesize all the information, and so that you've got time to work through the practice sets and practice tests, etc**..
7. There are several display options, including full screen.
8. There are also play-speed options. If I'm lecturing too slowly, you can speed it up.
9. The ability to pause and rewind is really helpful for difficult topics.
10. **Kaltura videos can be downloaded to your computer as mp4 files so that you can view without streaming.**
    - If you don't have consistent fast internet, you may wish to download a whole bunch of videos as mp4 files while you do have access to fast internet. Then if you're on an airplane, or on the bus for an athletics trip, or visiting grandparents, etc., you'll still be able to view the videos! ☺
    - A "download" command will appear below the video display ***if*** you are logged into D2L or media space.
    - To download, you must be logged into Minnesota State Media Space using your StarID.
        a. Easy way: With a class Kaltura video open, (NOT in full-screen mode), the right-hand corner will say "guest" or show a login icon (or your name if already logged in). Click, then enter StarID and password to login. Once logged into Media Space, then when you open a video the "download" button will appear below the video display screen.
            - Once logged into Media Space, you'll stay logged in for a while. So, if you're trying to download 20 videos, for example, you could log in once, then download all 20 of them...
        b. Or you could sign into D2L using StarID: https://mnstate.learn.minnstate.edu/
        c. Here's a video showing the process:
            - https://mediaspace.minnstate.edu/media/How+to+Download+Kaltura+Videos/1_b366psck

Do you have the Technical Capacity to play the online videos effectively? And Downloading so you don't need to have streaming internet.

- These are pretty standard videos. So, if you have internet access, you should be fine.
- Kaltura test (this is just a standard video):
    - https://mediaspace.minnstate.edu/media/360-AL05-Alcohol-to-Alkoxide-Ether/1_6le0fu0n
- To be able to download as mp4 files, see note above.
- While Kaltura doesn't have a specific "diagnostics" page, there is a nice "Tegrity" diagnostic page.
    - https://athens.tegrity.com/#/diagnostic
    - Tegrity is a different video-server than Kaltura. But usually if your device satisfies all or most of the the Tegrity diagnostics check boxes, it will also be suitable for Kaltura videos.
    - For additional syllabus information regarding technical capacity expectations and technical support, see **Technical Skills** and **Technical Support** sections later in syllabus. (Page 18?)

Which Videos go with Which Tests? And why you need to finish the Videos Well before taking the test:

- You need to get through all the lectures but then also have time to put everything together.
  - If you're doing the last lecture the night before taking a test, you'll not succeed on tests!
  - You need time to put it all together: review and study everything; practice everything; finish your required ACHIEVE/Sapling homework; do more book practice; and do the practice tests!
- **You'll want to have finished going through all the lectures most of a week before taking a test so you've got time to actually master everything and become test-success ready.**
- **Many additional practice sets and videos are linked from the main class website**

	Using 50-minute MSUM Kaltura Videos https://collaborate.mnstate.edu/public/blogs/jasperse/online-organic-chemistry-courses/online-organic-chemistry-i-350-summer/
Test 1	Lectures 1-10 (under "Organic Chemistry I - Test 1…" pulldown)
Test 2	• Lectures 10b-21 (under "Organic Chemistry I - Test 2…" pulldown)
Test 3	• Lectures 22-29 (under "Organic Chemistry I - Test 3…" pulldown)
Test 4	• Lectures 30-39 (under "Organic Chemistry I - Test 4…" pulldown)

In-Class Notes: http://web.mnstate.edu/jasperse/Online/Classbook-Chem350-online.pdf
I have a very thorough set of notes that can be used in class. Included will be numerous examples and practice problems that I/we will work in lecture together. You should print the notes (print on both sides of a page), 3-hold punch them, and keep them organized in a 3-ring binder. Many students actually print two copies, one to work through with me during lecture, the other set for working out on their own after lecture.

Practice tests, Answers, and Videos:
http://web.mnstate.edu/jasperse/Chem350/Practice%20Tests/Chem350PracticeTests.html

- All practice tests in a single document: http://web.mnstate.edu/jasperse/Online/PracticeTests-All-Chem350.pdf
- All practice-test answer keys in a single document:
  - http://web.mnstate.edu/jasperse/Online/PracticeTests-Answers-All-Chem350.pdf

1. There are four practice tests available for each test which can be printed from the website.
2. These are normally exact copies or slightly edited versions of actual past tests. As such they are invaluable for getting an idea of what my tests look like, for evaluating whether you are or aren't well prepared, and for recognizing study areas that need additional attention.
3. For each test, there is also an answer key, and a video in which I discuss each problem.
4. For each test, there is also a "test preview" in which I discuss the format, length, and distribution.

Extra Practice Problems and Practice Sets: Available from main website, or from single-document links below:

- All practice sets in a single document: http://web.mnstate.edu/jasperse/Online/Practice-Sets-All-Organic-Chemistry-1.pdf
- All practice-set answer keys in a single document:
  - http://web.mnstate.edu/jasperse/Online/Practice-Sets-Answers-All-Organic-Chemistry-1.pdf

Between ACHIEVE homework, assigned/recommended book problems, and practice tests, there are usually a good variety and volume of problems to assess your understanding and to practice and sharpen your skills.

1. However, for each test I have also created a series of additional practice sets to address important learning skills. Sometimes these are topics where I know students tend to struggle, or where the ACHIEVE/book problems aren't perhaps as representative of test problems as I'd like.
2. For each of these extra practice sets, you can print them from the link above or from the main website; there are answers provided; and in each case I have a video created to talk through each problem.
3. Having the video explanation/discussion is helpful for many students in trying to understand the process for solving problems. Obviously, the book problems and ACHIEVE problems don't have the same kind of commentary available.

ACHIEVE/Sapling On-Line Homework: https://achieve.macmillanlearning.com/
More details on a later page. ACHIEVE's modules enable one to interact with 3D models and draw chemical structures. You get instant grading, sometimes response-specific coaching, and detailed answer explanations. The ACHIEVE/SAPLING homework also provides an effort-driven opportunity to earn some points! (ACHIEVE averages are typically much higher than test averages.)

ACHIEVE/SAPLING OnLine Homework, version 2025

- ACHIEVE/Sapling should be ready at least by March 1, and can be sooner by arrangement/request.

Getting on when you've already enrolled: (see lower down for enrolling at first)

1. Website: https://achieve.macmillanlearning.com/
2. Sign in
3. Have "VIEWING BY" set as "Assignments"
4. Miscellaneous:
   - You can try a problem as many times as you like. But the scoring will cost you only 5% of the points available (per problem) for each incorrect attempt.
   - **Jasperse can enter due-date extensions.**
   - Take some time with the introduction materials, including the "training assignment" and the "drawing tips and shortcuts" practice problems.
   - You do not need to complete a chapter assignment at a single time. You can do as much as you like; leave; and return as you like.
   - ACHIEVE scores will not appear in your D2L grade records until after you've completed all of the assigned ACHIEVE work.
   - For course points, your ACHIEVE points will equal ACHIEVE % x 73.
     - So, for example, 100% x 73 = 73/73; 90% x 73 = 65.7/73, etc..

How to enroll into the ACHIEVE/Sapling online homework problems required for this course:
Short Synopsis:

1. Go to: https://achieve.macmillanlearning.com/
2. Click on **"I Need to Enroll in a Course"**
3. Enter your course ID as given to you by your instructor (see website, syllabus, email, or request)
   a. Course ID for Summer 2025: e7tk4f
4. You then have two options:
   a. Purchase Access Online: Select the access period you want to buy. Add it to your cart. Create an account. Follow the check-out process.
   b. Already have a code: Simply enter in the code you have either purchased or received. Create an account and you're in.

Longer with More Step-by-Step Details:

1. Go to: https://achieve.macmillanlearning.com/
2. Click on **"I Need to Enroll in a Course" (**in the lower left quadrant)
3. Enter the Course ID (this is specific/unique to each course).
   a. Course ID for Summer 2025: e7tk4f
4. Click "Purchase Achieve Access" button
   - This is the most direct, cheapest payment and the way to go.
     - The "enter access code" would apply if you purchased access from the bookstore. Hopefully the bookstore will have access code cards, but I'm not totally sure?
5. Add it to your cart.
   - If first time using "Achieve", you may need to fill in account information, with email and password and stuff at this point? Or maybe that will happen later….
   - Note: *IF* it's Organic I you are adding, there will be an option to buy two-semesters worth of access at a reduced cost.
   - If it's O2 you are adding and you'd previously paid for 2-semesters access, you'll get a button that prompts you to use that previous payment.
6. Checkout.
7. Create Account or Sign In

Study Strategy: Putting off the extensive information in organic chemistry will only make it harder on you. After each lecture, try to study the day's notes and work all of the assigned book problems. Some practical study thoughts:

1. General university policy is that an average student in an average class should study for at least two hours out of class for one hours in class to get an average grade.
   - Fact: Organic chemistry isn't really an average class! And do you want an average grade?
2. I suggest reviewing the class notes and in-lecture practice problems ASAP after a lecture, and going through the material at least twice.
3. Many students print/download an extra copy of class notes, and try to redo all the in-lecture problems on their own.
4. I suggest working ACHIEVE/book problems upon completing a full chapter.
5. Reading the book: the textbook is a support resource. If you didn't understand some of the material in class, the book will frequently have a more complete and detailed discussion that will help you understand things.
6. If I decide I'm not going to take the time to study the class notes, to do ACHIEVE and book problems, and to read the book, which one should I sacrifice first? Possibly some book reading? If you read but run out of time before you get to practice and understand the problems, it's not a recipe for success.
7. The practice tests are excellent rehearsal for the real tests.
   - http://web.mnstate.edu/jasperse/Chem350/Practice%20Tests/Chem350PracticeTests.html
   - All practice tests in a single document:
     - http://web.mnstate.edu/jasperse/Online/PracticeTests-All-Chem350.pdf
   - All practice-test answer keys in a single document:
     - http://web.mnstate.edu/jasperse/Online/PracticeTests-Answers-All-Chem350.pdf
8. Do absolutely all of the practice sets, which are excellent rehearsal for the real tests.
   - Available from main website, or from single-document links below:
   - Practice sets in a single document: http://web.mnstate.edu/jasperse/Online/Practice-Sets-All-Organic-Chemistry-1.pdf
   - Practice-set answer keys in a single document:
     - http://web.mnstate.edu/jasperse/Online/Practice-Sets-Answers-All-Organic-Chemistry-1.pdf

"ChemSurvival" Videos by Professor Ron Davis: lots of nice videos!

- Full ChemSurvial site: https://www.youtube.com/user/ChemSurvival/videos?flow=grid&view=0
- Relevent ones are often linked from my lectures website.
- Professor Davis's ChemSurvival videos are frequently of very high quality, with excellent molecular-model displays. In many cases where I'd be displaying molecular models while teaching a face-to-face class, the ChemSurvival videos will do a comparable (or usually better) job of enabling visualization.
- Professor Davis is an excellent teacher and communicator, so there may be times when perhaps things just make better sense with some of his videos and explanation than they do in the regular lecture! If so, please take advantage of whatever enables you to learn and master the material!

Class E-Mail List: An email list will be sent to all registered students before the class officially begins.

- **The list may use your MSUM address, so if you haven't received an email from me, send me an email with the actual address you'd like me to use!**

Book Homework Problems: (see list on following page).

- All assigned/recommended book problems represent what I consider to be reasonable test-level problems. I have gone through each problem in the book and selected out those I think are the most representative and practical.
- There may be a few that are trickier than I'd put on a real test, but the majority are ones you ought to be able to do.
- All have worked-out answers in the Solutions Manual. **The homework is a great way to practice problem solving, assess your progress, and prepare for tests.** Since solutions are available, I will not collect the book homework.
- **The few "quiz" assignment problems that I require and grade are no substitute for doing book homework problems! Likewise the on-line ACHIEVE homework will not be sufficient**.