1. What advice would you give to a student taking Chem 51B?

- Look at the weekly worksheets and practice midterms, since the midterms are similar to the worksheets and practice midterms.
- keep up with the readings and practice problems are the key to do well
- do every assigned book problems and more. Also do every single worksheet problem on paper by hand... dont just look at it and then the answer key. even if you dont know it and resorted to the answer key, go back and try to do it and make sure u understood mechanism/answer. do worksheets if you are short on time for studying because you procrastinated. flashcards for reactions help.
- Go to office hours! It may seem intimidating but getting one on one time with Professor Jarvo helped me understand the material. Also, do the book problems and the tutorials! They really help with the synthesis problems that show up on exams.
- Well study hard
- study hard
- Study! Study! Study! Do the worksheets and make sure to keep track of all the mechanisms so you don't find yourself playing catch up at the very end.
- study everyday!!
- Read the book and keep up with the work. Worksheets are basically sample test questions, so do them.
- Go to lectures. Use lectures to not only see what will be on the tests, but think of it as an hr of studying w/o starring at the book. You'll understand the topics much better than just reading the book and doing problems. Lectures are very very helpful. Do the worksheets, the problems in the book are rather easy, so by doing the harder ones in discussion you'll be prepared for the easy ones.
- Don't fall behind
- Do the problem worksheets and know how to do retrosynthesis.
- Do NOT procrastinate. Even though this is applicable for every class... this isn't "cram-able" material. At the LEAST, give yourself one week before a test to study, and even then...CRAM that entire week to prepare for the test.
- The assignments from the book are a good way to only practice the basic concepts. Do some of them. THe way to do good on her test is to study her discussion worksheets thoroughly.
- go to discussions, work on the problems in the book, and make reaction sheets/cards
- Do all of the practice problems from the book in each chapter. Also do all practice worksheets/web problems. They really help to give an idea whats going to be on one's midterm.
- 1. Relax, take a deep breath, and stay alert (reference tip #2). 2. Stay awake in class and take good notes--chances are you have 3 other classes to go to before the day is over so take advantage of the time you have in lecture to focus on this material. 3. Summarize the lecture in 3-4 sentences right after class. Doing this helps you digest the new information. 4. Ask questions to clarify any ambiguity--it saves so much time to have the questions

already answered when you're reviewing for exams. 5. Practice ALL of the synthesis problems. Check your mechanisms. Practice them again. 6. Eat and sleep well before taking any exams. 7. Give yourself a pat on the back for getting this far! Enjoy!

- The advice that I would give any student taking chemistry 51B is to do as many practice problems as possible. Even if you don't understand the information fully go over problems, draw out all the mechanisms until you have it down. Also I would recommend making a reaction sheet of all the reagents and what starting materials work with which reagents and the product that at you get. I would advise them to study lecture material and the worksheets are extremely helpful. Also going to discussion helps because if you don't understand something that is on the worksheet, the TA can help clarify and go step by step in explaining.
- Study EVERYDAY!!! Do the extra credit, they do help.
- Do not procrastinate.
- Take reading notes while you go through the new material in the book. Do all the problems incorporated within the chapter.
- keep up with all materials after every lecture. the book also helps a lot!
- Stay on top of the material, it's hard to motivate yourself when tests aren't in sight but it really would've helped me out if I studied a little all the time versus a lot all at once.
- Do not under any circumstances skip lecture or discussions. You may thing that reading the book will get you through and that might work some of the time but save yourself some time and go to lectures. That'll give you the best idea on what to focus one for midterms and finals.
- Keep up on the reagents! I think the reagents are the hardest part to remember, but if you can remember them and how they work, you should do fine.
- Keep up with your readings! DO NOT PROCRASTINATE!!!
- GO TO DISCUSSION. dO ALL THE RETROSYNTHESIS PROBLEMS. PAY ATTENTION IN CLASS. DO MORE RETROSYNTHESIS PROBLEMS. STUDY FOR A BIT AND THEN DO MORE RETROSYNTHESIS. READ SOME OF THE BOOK THEN DO RETROSYNTHESIS AGAIN. AFTER YOU ARE DONE WITH ALL THAT, FINISH UP BY DOING MORE RETROSYNTHESIS FOLLOWED BY MORE RETROSYNTHESIS. AND DONT FORGET TO DO YOUR RETROSYNTHESIS.
- Study consistently and do all the book problems. Have a lot of practice with the problems.
- go to lectures, make flashcards, stay on top of things
- "TO ACE THIS CLASS YOU MUST DO THE PRACTICE PROBLEMS IN THE BOOK AND THE PRACTICE PROBLEMS FROM THE DISCUSSION-WORKSHEETS OVER AND OVER AND OVER LIKE AT LEAST THREE OR FOUR TIMES (AND WHEN I SAY DO THEM, I MEAN ALLLLLL OF THEM)! IF YOU DO THIS, YOU WILLLLL GET AN A I PROMISE. IF YOU DON'T, YOU WILL NOT GET AN A I PROMISE". This is what I would tell an incoming student to your class.
- You need to be self-disciplined enough to study at the very least 15 hours a week or risk not doing well on the exams. I know it's easier said than done but the mechanisms and the syntheses add up and you find yourself having to cram everything all at once.
- First, grasp the concept and do as many problems you can do... More problems you are exposed to, the better you would do during the test
- take larc and do all the practice problems you can!
- do all the problems in the book and do discussion wkshts
- Make sure you stay on track, keep practicing every single day, and don't get behind. Do and redo worksheet problems.

- do all of the problems she assigns from the book and from the worksheets!
- Do more than just the assigned problems, do them all.
- To study the different reactions weekly if not daily.
- Try to read and do problems on a daily basis or at least try to think about ochem everyday.
- Do the online extra credit problems to keep up with the lecture material. Then you don't have to lug around your text book everywhere.
- study hard! and a lot
- practice, practice, practice! Also, buy yourself a little mini whiteboard and some whiteboard markers. These are great for synthesis problems, for remembering mechanisms, and for doing worksheet/review/book problems (you don't waste paper!). Don't just read over your lecture notes but write them over again, maybe on your whiteboard. This helps you understand things better if you are actively involved in studying. Try to reason with yourself why things are the way they are in your notes.
- GO TO OFFICE HOURS. It helps in so many ways. Study on your own, go in with questions and Professor Jarvo and the TA's will help immensely.
- Go to office hours or get a tutor if you don't know the material by studying.
- First and foremost, I want future 51B students not to be intimidated by the course. Coming into the course with a defeated manner will only make it harder to be successful. I suggest to do a little everyday because it is more bearable and will ultimately help with the understanding of the material.
- Begin reviewing the material as soon as possible to stay on top of everything (better if it's within the first two days of when it was taught), then if you have any questions, take them to your professor during office hours. Go to office hours, they help.
- More than half of the work is done for you if you pay attention in class. Skim the book VERY briefly before lecture (the end of the chapter summary works fine), and then read the chapter after the material is presented in lecture (helps reinforce and allows you to focus on what the professor emphasizes). When dealing with the problems presented in the reading, look at the solutions manual to learn through example, then try it yourself (w/o the manual) for the ones at the END of the chapter. If you trust yourself enough, cramming is possible. Spend one day to read the material thoroughly, one day to overview concepts/lecture notes/examples, and one day concentrated on problems. Oh, going to discussion will help you with the test, since discussion worksheets are based off of the test format.
- Set time aside every week for Ochem. It requires a lot of time and dedication. Do all the problems that are assigned. Go to lecture.
- You must keep up with studying lecture notes and reading the book each week. Do as many practice problems from the book, and do all worksheet problems from discussion more than one time. Make flashcards for important mechanisms. Also, attend all lectures and discussions is necessary. Office hours and tutors are helpful.
- DO PRACTICE PROBLEMS!!! Focus on lecture more than book. worksheets/homework should be done everyweek.
- Do the practice problems. Do the practice problems. Do the practice problems.
- I would tell them to always do problems and go to the discussions because you can get a feel for the types of questions that will be on the tests.
- Read the textbook carefully, as the concepts closely coincide with materials in lecture. It is very handy, as the explanations are concise and easy to look back to; you can also take a little bit more time with a textbook and allow oncepts to sink in. Work on assigned

textbook problems and worksheet problems.

- Go to class. Don't procrastinate. Good time management...
- Take notes while professor Jarvo is lecturing and use multiple colors. Mechanisms are really important in understanding reactions and Prof. Jarvo will teach you all the important ones, so take notes! Try to keep up with the material. If you're having a hard time, try taking LARC! It's very helpful for keeping you on track.
- Take LARC and go to lecture.
- Study
- do lots and lots of practice problems for synthesis reactions
- Study every single day!!! It is VERY VERY hard to catch up...and it doesn't have to be for a long period of time....1 or 2 hrs each day will prepare you than a majority of the students!!
- Stay on top of the readings and work on problems everyday
- prepare for test ahead of time and office hours are helpful... use them
- Do the reading before you go to class. It helps if you've seen the material once before, so it is somewhat familiar when the professor goes over it in class.
- Go to lecture, review lecture notes.
- The trick to 51B is to actually understand mechanisms and understand why certain products form by using different reagents instead of just memorizing the product. This is crucial because the same reactions appear every time and it is important to not waste time reviewing each time.
- do the problems, do the reading, but DO THE PROBLEMS and GO TO LECTURE
- study the worksheets
- Study a little every day - memorize all the reactions and reagents! If you felt lost by the end of 51A, spend some time to go back and learn the things you missed because you still have to know it!!
- Read the material its not that long and it well give you more dept in your reading.
- don't procrastinate. do assigned questions
- Make flashcards of all the reactions, it give you a good way to check answers when doing synthesis opposed to flipping through the book. You can also test yourself on what products are made from a reactant and product. Also I would try to keep up with the material as much as possible and defiantly do the book problems.
- Attend discussion sections and do the worksheets.
- keep up with the material everyday, read the textbook before lecture, do practice problems from the book and from discussion, and also try synthesis explorer (helps alot on the exams).
- start studying early
- Go to class is the most important thing. Reading the book compliments the lecture and is also very helpful. DO PRACTICE PROBLEMS OVER AND OVER
- more synthesis worksheets
- Study ahead of time and do a lot of practice problems.
- to practice problems and keep up with the work
- Review the lecture material especially mechanisms everyday. Don't get behind. Do the problem sets multiple times and just go over as many problems as you can.
- Memorize all the reagents for the different types of reactions and the mechanisms.

- Dr. Jarvo's worksheets are AMAZING!!! Not only do they show how her tests will be formatted, they REALLY REALLY REALLY help when studying for exams!! ALSO, GO TO LECTURE because her notes are really organized and colorful, so they're easy to read. You'll understand the material a lot better than just reading the book.
- you need to study! If you dont keep up then you have to study atleast a week in advanced.
- study all semester
- Review lecture notes and discussion worksheets after each lecture and discussion session. Also, one can write out all the reactions and different types of reagents on a piece of paper or index cards and review them every week.
- do not procrastinate 51lb is a lot of work always review what you have learned in 51A
- O-Chem isn't too bad, you just have to do a lot of practice problems and make sure you understand HOW to do them. That's the trick to O-Chem, you can't really memorize your way through the class, you actually have to apply what you learn.
- go to class
- Memorize the mechanisms, know the reagents and what processes to use them for.
- Attend lecture, discussion section weekly, do discussion worksheets, practice reaction tutorial if you have time... and a last hint, attend office hours, Professor Jarvo is a really helpful resource!
- Study from the beginning! Never put it off a week or so before the midterm because there is no way you can learn everything. It is a gradual learning experience.
- Do the worksheets on time and make sure you know everything on it!
- Do the worksheets! Keep doing them over and over until you can do them perfectly. Also, the E.C. synthesis is really helpful.
- READ, READ, READ, READ.....then do practice problems and go to lecture and discussion.

<92 responses | 5/97 non-responses>

2. How much time do you spend studying for Chem 51B?

Answer Option	Value	%	#
2 hours/week	2	30%	(29/97)
5 hours/week	5	42%	(41/97)
10 hours/week	10	21%	(20/97)
15 hours/week	15	4%	(4/97)
20 hours/week	20	1%	(1/97)
more than 20 hours/week	30	2%	(2/97)

Statistics: 97 responses, 0 non-responses; Mean: 6.22, Median: 5, Mode: 5, Standard Deviation: 5.1

3. If a student wants to do well, how much time would you recommend they spend studying for Chem 51B (outside of lecture and discussion sections)?

Answer Option	Value	%	#	
2 hours/week	2	4%	(4/97)	
5 hours/week	5	28%	(27/97)	
10 hours/week	10	36%	(35/97)	
15 hours/week	15	24%	(23/97)	
20 hours/week	20	3%	(3/97)	
more than 20 hours/week	30	5%	(5/97)	

Statistics: 97 responses, 0 non-responses; Mean: 10.8, Median: 10, Mode: 10, Standard Deviation: 6.24

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