Important Course Information

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1 Introduction

This is a 100% online course. This means that we will NOT hold scheduled in-person class meetings throughout the semester!.
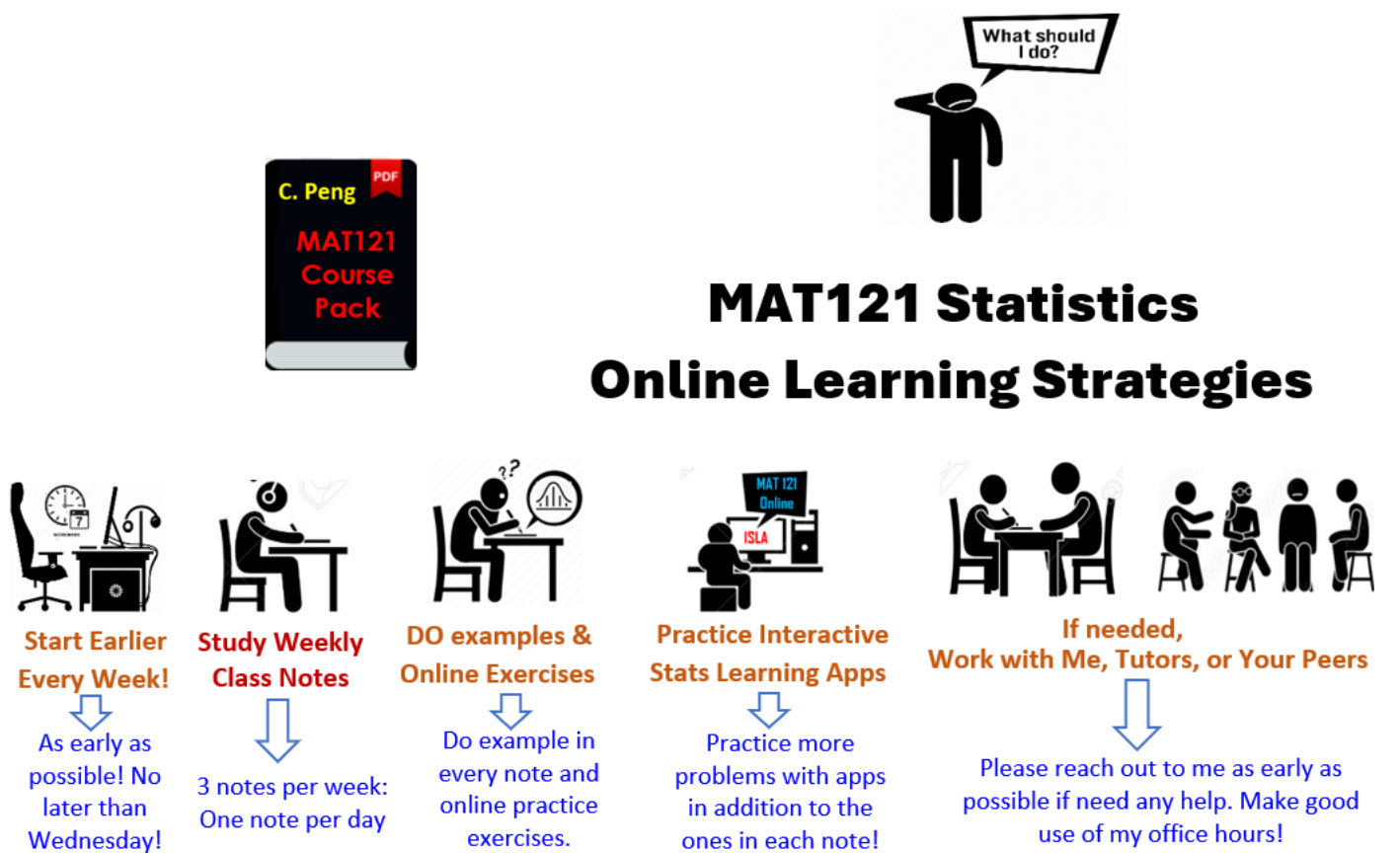
1.1 What Are You Expected to Do Every Week?

Although we don't meet in class every week, we still accomplish weekly learning goals by following the weekly learning schedule that is laid out clearly on the course web page. To be more specific, your weekly learning tasks include

1. studying the weekly note (or the corresponding chapter in the eBook). **Practicing** (not simply reading) all examples in the note.

2. practicing the online multiple choice problems. [A piece of advice: please do all multiple choice problems as if they were show-your-work problems, then based on your work choose the correct answer. **Click the answer button to view the correct answer and its explanation is the last step!**] . Please use this online learning material wisely and responsibly.

3. Use an appropriate **InteractiveStatsApps** to check your work to make sure your statistical reasoning is correct. If your answer is different from what the Apps produced, double-check your work to see where is wrong. This is the most effective way of using these interactive apps to debug your thinking and enhance your understanding of the materials.

4. If you have any difficulty understanding some concepts or some examples, please take note and then **reach out to me directly** . Please trust yourself that **you can do it no matter what prior mathematics experience you may have**. It is perfectly normal to feel challenged in the learning process. All you need to do is to seek help from me, or your peers. Never give up!

5. The last task of each is to to D2L to complete the weekly quiz. You should think of the weekly as the regular weekly homework assignment. *Weely Quizzes* are will be administrated through D2L and will be available every Friday and due the following Sunday (See the detailed information on the course web page). You have 120 minutes to complete each weekly quiz (exam). D2L will automatically grade your weekly assignments.

The above suggested weekly learning schedule is outlined graphically below.

6. **Additional information about the weekly quizzes**
   - Every weekly quiz has about 35 multiple-choice questions. There will be no show-your-work problems in weekly quizzes.
   - Everyone will have their own version of the quiz with the same number of questions at the same

level of difficulty.

- For each weekly quiz, you will be allowed two attempts. The one with the highest score will be recorded as the score of the weekly quiz (exam).
- If you re-attempt the quiz, you have to start all over the entire quiz (not just the ones you did wrong in the previous attempts).
- The key to the master problem set on which your quiz was built will be posted on the course webpage every Monday so you use it to practice and prepare for your final exam.
- If your answers to some of the problems in quizzes are slightly different from the suggested answer key and you still don't see the issues that cause the difference, please reach out to me as early as possible.
- You can start the exam at any time between Friday at noon and Sunday at 10:00 PM. You can use any resources you can find including the interactive apps when you do the weekly assignments.
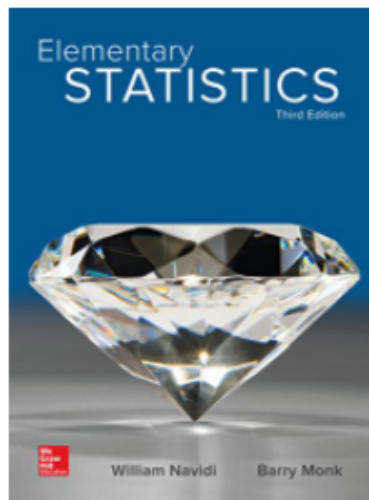
2   Policies, Resources, and Expectations

Course policies and expectations on exams and assignments are outlined in the syllabus that is also available online at: https://pengdsci.github.io/MAT121W5/w00/MAT121Syllabus.pdf

3   Logistics

Since I wrote a self-contained electronic course pack (E-Pack) and developed 17 interactive statistics learning apps for this class, you are **NOT** required to buy any materials and devices to complete this course. All you need to do is to put effort into studying weekly materials and practicing problems in online exercises.

3.1   Textbook (Optional)

Elementary Statistics, by Navidi and Monk, 3rd edition.

Everyone has already been charged for the above eBook. You can opt out of the required eBook and get a refund. I don't how this is proceeded. You may want to send an email to the student IT HelpDesk to see whether they help. Once I have relevant information, I post it on the cost web page and send it to you via email as well.

E-Pack written by myself will be used throughout the semester.

The link to this eBook is on the course web page as well

3.2 Interactive Statistics Learning Apps (ISLA)

I have put a lot of effort into creating many graphics in the notes and the eBook to help you visualize the contents whenever possible. In the meantime, I have also created interactive apps (called **InteractiveStatsApps**) accompanying the topics included in the lecture notes and the eBook as standalone sections under the same title **Use of Technology** to enhance your understanding of the materials.

3.3 Calculators and Technologies

Calculators are not required for this class. We only use calculators occasionally to do simple calculations. Because of this, you should have a very basic scientific calculator that can do the four basic operations $(+, -, \times, \div)$ and square root $(\sqrt{x})$. A TI graphic calculator is not required.

The **ISLA** can be used as a statistical calculator. You can use them to verify your manual work. I also use these apps to check the results of the examples used in lecture notes.

4 Components of Course Grade

As stated in the syllabus, the course grade will be calculated based on weekly quizzes, three midterm exams, final exams, and attendance.

4.1 Weekly Quizzes

To fairly assess your learning outcomes, you will do weekly quizzes in addition to the exams. All weekly quizzes will be administered through D2L. You can consider these weekly quizzes as weekly homework assignments. Detailed information about the quizzes has been described in the opening section of this note.

4.2 Final Exam Information

Time and Date: 3:30 PM - 5:30 PM, Sunday, 8/4/24.

Location: online through D2L.

Format All questions are multiple-choice. There are about 35 questions in total in the final exam.

Duration: The final exam is 2-hour comprehensive exam . You must complete your exam within 2 hours. No extension will be given.

Coverage: All topics delivered this semester are supposed to be covered in the final exam.