



SMU[®]

Master of Science in Data Science

DS 6373: Time Series Course Syllabus

Welcome to Time Series

Welcome to DS 6373, Time Series. Data collected over time often introduce correlation between observations, thus creating the need for theory and methods to account for this dependency. The objective of this course is to teach students why it is necessary to treat these data differently and to provide them with the theory and methods to appropriately model such data. The student will learn how to apply these methods through lectures, lightboard sessions, coding in R, real-life data sets, and interviews with currently practicing industry professionals. The objective of this course syllabus document is to acquaint you with the administration, procedures, and policies of this course. Refer to this document throughout this course, and save this document for future reference.

Course Overview

Many problems in industry and scientific research involve observations recorded over time. Traditional modeling methods are not appropriate for this type of data as the observations are not independent but rather serially correlated. This course provides the student with a working knowledge of several parametric and non-parametric models to both estimate population parameters and forecast future values. In addition, the course provides extensive practice in working with the statistical package R in estimating and visualizing these models and does so through the use of numerous real-world data sets.

Course Designers

This course was designed by Dr. Wayne Woodward and Dr. Bivin Sadler.

Dr. Woodward has over 40 years of teaching and research experience in the field of time series and has published five books and over 80 papers on the subject (some of which are referenced in this course!). He was the chair of the Statistical Science Department at SMU for 16 years, chaired 21 PhD student dissertations, and is now a professor emeritus in the department. Dr. Woodward also practiced applied time series and has provided several technical reports in the areas of climatology/global warming, seismic detection of nuclear explosions, and several other fields. Please check out his CV here: http://faculty.smu.edu/waynew/Vitae-waw_sep2012.pdf.

Dr. Sadler is a former student of Dr. Woodward and graduated with a PhD in statistics from SMU in 2014. Dr. Sadler has taught statistics and data science at the undergraduate and graduate levels at SMU since 2014 and has been (and is currently) consulting on projects in industry during that time as well. These projects include clients such as DISD, KadAfrica (Ugandan nonprofit), and RNDC (Republic National Distributing Company). He has over 17 years of teaching experience in mathematics and statistics at the university level.

Course Student Learning Outcomes

Learning outcomes, or learning goals, are what you are able to do as a result of the videos, readings, instruction, course assignments, and other activities that you participate in and complete during this course. The primary learning outcomes of this course are:

1. The student will be able to describe why additional methods are needed to analyze data with serially correlated observations.
2. The student will be able to describe what is meant by “serially correlated observations.”
3. The student will understand the theory and application of autoregressive, moving average, ARMA, and ARIMA models.
4. The student will be able to model both stationary and non-stationary time series with potentially many covariates.

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5. The student will be able to estimate multi-layered perceptron and RNN models using time series data.
6. The student will be able to evaluate the performance of these models.
7. The student will understand and be able to estimate the spectral density to estimate frequencies in the data.
8. The student will be able to generate forecasts from the models described above complete with confidence limits.
9. The student will be able to produce plots of the series, forecasts, and limits.
10. The student will be well versed in the R package tswge to analyze the time series.
11. The student will gain experience working with data related to real-world business applications.
12. The student will gain valuable insight from interviews with practitioners (data scientists) from leading companies in various industries.

This course supports, through its various synchronous, asynchronous, and other activities, broad general learning outcomes that are supported by the Master of Science in Data Science program, including:

1. An ability to design and conduct experiments that yield relevant and reproducible data.
2. An ability to manage and clean data sets.
3. An ability to apply knowledge of data analytics to explore and identify relevant information contained within a data set.
4. An ability to function on teams using data science tools and technologies.
5. An ability to identify, formulate, and solve data science problems based on a fundamental understanding of concepts of data science.
6. An ability to communicate effectively both in oral and written form.
7. Knowledge of the broad foundational data science education necessary to understand the impact of data science solutions in a global, economic, environmental, and social context.
8. Knowledge of contemporary issues in data science.
9. An ability to use the techniques, skills, and modern data science tools necessary for data science practice.

Course Instruction Using Synchronous and Asynchronous Sessions

The course uses a combination of synchronous class sessions and asynchronous material and activities to teach students the course material and guide them through the learning process. Synchronous class sessions occur once per week during the course of the term. These sessions consist of lectures, discussions, problem solving, in-class assignments, and quizzes based on the asynchronous material, including the course video lectures, assigned activities and work, and any readings assigned. It is expected that all asynchronous material will be completed (e.g., videos viewed, assigned readings read, and assigned work completed and turned in) prior to the synchronous session associated with that material.

Course Prerequisite

A student taking MSDS 6373 must be enrolled in the Master of Science in Data Science program at SMU and must have completed the MSDS 6372 course with a grade of C or better.

Course Textbook and Other Course Material

Required

Time Series for Data Science, Woodward, Sadler, and Robertson, CRC Press/Chapman and Hall (2022)

Access to ChapGPT and/or Bard: Free or Paid version

Optional / Suggested for Students Interested in More Theory

Applied Time Series Analysis with R, 2nd edition, Woodward, Gray, and Elliott, CRC Press/Chapman and Hall (2017)

Technology Requirements

DS 6373 is a course taught online with both synchronous and asynchronous portions requiring the transfer of video. Students are expected to have access to a computer with reliable, high-speed internet access. Students are expected to have access to a computer with a **web camera** with the computer capable of running the required software to access the learning management system, read online documents, watch course videos, and participate in the synchronous classes (**including being on camera**). **Students are required to have their video on ...** it is critically important in facilitating the environment most conducive to learning time series and interacting with one another. Students are also expected to have access to a reliable phone connection in order to participate in the synchronous classes.

DS 6373 course utilizes R to teach the course material. A local copy of RStudio (Posit) and knowledge of RMarkdown is assumed.

All students enrolled in SMU have an SMU email account. Notifications from the learning management system and from the course instructor utilize your SMU email account. Students are encouraged to check this email regularly.

Use of Generative AI:

I strongly believe that generative AI will be a necessary tool we will all use in the future to many tasks in our jobs and in our lives in general. With that said, I also feel strongly that it is, by far, much more valuable if we are experts in what we are asking it to do. At this point it becomes a collaborator; otherwise, it is just dangerous.

For this reason, output from generative AI should not be copied and pasted into any assignment (HW, FLS, Exam, etc.)

However, after you have worked hard to understand the concepts in the asynch and FLS, we will cover the opportunities and challenges presented by generative AI relative to each unit in that unit's live session.

In summary, my goal for you is to understand these methods and concepts completely so that you can wield them and generative AI in a useful, knowledgeable, confident and powerful way. Diligently working through the material first will enable this ability and the bold directive above will be strictly enforced in class to ensure this outcome.

Course Access

This course is accessible to registered students in the SMU MSDS program only. Course asynchronous material, course information, and course communications occur through 2U's instance of Canvas. Access to the Digital Campus (Canvas LMS) can be found here: <https://digitalcampus.instructure.com/>

Students who experience technical issues with the learning management system or the Zoom classroom should contact technical support as described below. If you have issues, please contact your professor.

Students will have access to only those courses and course sections in which they are currently enrolled or have been enrolled in previous terms. Access to other sections is at the discretion of the section instructor. Access to recordings of synchronous sections where the student did not participate or was not an enrolled student is prohibited to protect the privacy of the students who do attend and participate.

Communication and Technical Support

Direct communications with the instructor should be made in the manner indicated by the instructor. General questions and questions that are relevant to multiple students—that is, questions that are not specific to an individual and involve that individual's private information—should be posted on the course wall.

Technical support for the learning management system and the online classroom may be reached 24 hours a day, seven days a week via:

- *Chat Support:* Click “Live Support” in the lower right-hand corner of the Canvas screen after logging into

the Digital Campus to chat with a technical support representative. Chat support generally responds and engages in five minutes or less.

- **Phone:** Students should call 1-844-768-5637 (toll free) to speak with a technical support representative.
- **Email:** studentsupport@datascience.smu.edu to initiate a support request with a technical support representative.

For other questions or concerns, please contact the appropriate SMU department for your questions or concerns or send email to datascience@smu.edu.

It is the student's responsibility to ensure that all communications are received or acted upon.

Course GitHub Page:

Most of the materials mentioned in this syllabus and needed for the course can be found on the course GitHub site:

<https://github.com/BivinSadler/MSDS-6373-Time-Series>

Course Procedures and Policies

This course has a number of policies and procedures that students should understand and follow if appropriate. The following sections present the general course policies and procedures that students must follow. Additional policies and procedures may be given by the instructor. Please discuss as early in the term as possible with the instructor any questions or concerns that you may have regarding the course procedures and policies as defined herein or any additions made by the instructor to the course procedures and policies.

Course Grading Policy

This course consists of a number of assignments and projects that are to be completed throughout the term. Every submitted assignment is graded on a scale of 0 – 100 and contributes to the cumulative percentage for the course. Individual percentage breakdowns for each type of assignment are below. Questions regarding the grading of any assignments should be directed to the course instructor as soon as possible and in accordance with any regrading policy instituted by the instructor. This course is not graded on a curve. The required cumulative percentage needed to earn each letter grade is given in Table 1.

Table 1: Cumulative Percentage Required to Reach Each Letter Grade

Cumulative Percentage	Earned Grade
[100 – 93]	A
(93 – 90]	A-
(90 – 88]	B+
(88 – 83]	B
(83 – 80]	B-
(80 – 78]	C+
(78 – 73]	C
(73 – 70]	C-
(70 – 60]	D
< 60	F

The cumulative percentage for the course is determined by the course assignment components with their corresponding percentages defined in Table 2.

Table 2: Grade Components and Weightings of the Cumulative Percentage

Percentage of Cumulative Percentage	Component
10%	Asynchronous Video Response Questions and Discussions (<i>Must be completed before live session in the week assigned.</i>)
15%	For Live Session Assignments

10%	Homework
20%	Midterm
5%	Initial Project Presentation and Documentation
20%	Final Project Presentation and Documentation
20%	Final Exam

Asynchronous Video Response Questions and Discussions (10%): Throughout the videos, there are various concept check questions to make sure the student understands the material before moving on to learn new material. These questions are often in the form of multiple choice or matching questions, and most are gated, which means the student must get the answer correct before moving on (but don't worry, you have an unlimited number of chances to get the questions right!). These questions may also be discussion questions in which the student will respond to a prompt and then be able to see all other students' responses after they submit their response. At that point, it is our hope that a discussion will ensue. The student has the option to keep the conversation going by responding to their peers' responses. The instructor will be checking for participation in these discussions and may even participate in the discussion themselves. Given the fact that most of the material in this course builds on the material presented before it, participation in the concept check questions and the discussions must be completed during the week they are assigned.

For Live Session Assignments (FLS) 15%: This is really where a lot of the "doing" is done. It is critical to practice using, applying, and interpreting the models presented in this course, and these assignments are a big part of that practice. Each week you will have a list of assignments to complete before the live session. These assignments will be completed and presented in a PowerPoint deck and submitted to the course website (under *Unit X: "For Live Session" Assignment* where 'X' is the corresponding unit number). **They will be given a grade based on the thoroughness of the student's responses (not on their correctness).**

With that said, the last slide of the FLS contains at least 4 takeaways from the unit. "Takeaways" are facts, findings, interests or connections that are made based on the students study up to the live session. If you have a question that generated from a takeaway, list that question in the Question section and refer to the takeaway that is in the takeaway section. Also, it should be noted that these takeaways and responses in general should be complete sentences / thoughts and reasonably supported and elaborated on. This fact should be assumed in undergraduate study but is a fundamental assumption of all students studying at the graduate level.

In addition, the student will present their work to their peers in a breakout session, and the instructor will answer questions, facilitate discussion, and present their solution/approach to the assignment. To get full credit each week, the PowerPoint deck must be completed and submitted to the class website (**no later than 1pm CST on the data of live session**) AND must be presented in the live session. The goal of the PowerPoint deck is to also give the student weekly practice in preparing presentation quality slides for communication and presentation. Communication and presentation are consistently at the top of the list of desirable qualities that SVPs of companies that advise our program (Capital One, AT&T, Microsoft, Credera, etc.) report. For this reason, the grade is also based on the organization and visual appeal of the slides. See Table 3 below for due dates.

Close attention to the FLS is critical to the pedagogy of this course and thus to student success. With that said, I will drop the students lowest FLS assignment since sometimes unavoidable circumstances arise. These occasions are the reasons behind the dropped FLS.

Midterm (20%): The midterm will be administered to all sections simultaneously on Zoom, and the date will be announced at the beginning of the semester. More information on the midterm will be provided by your instructor.

Initial Project Presentation and Documentation (5%): The student will need to submit a report and a presentation identifying the time series data they have chosen for the project as well as the questions of interest and a full exploratory data analysis (EDA). The exact deadline for this submission and presentation will be provided by your instructor. 50% of this grade is based on the presentation, and 50% is based on the documentation.

Final Project Presentation and Documentation (20%): The student will present their solution and analysis of the time series data they have chosen. This will be conducted in Unit 14; more information will be presented by your

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instructor. 50% of this grade is based on the presentation, and 50% is based on the documentation.

Final Exam (20%): The final exam is administered in a similar fashion to the midterm, and the exact date will be identified by your instructor at the beginning of the semester. This test is cumulative and covers the fundamental methods covered in the course and the project.

Homework (10% SO IMPORTANT ... this and the FLS is what the exams are based on): HW questions can be found in the table below. They will be graded for completeness and are aimed at helping students connect the dots and identify areas to spend more time clarifying in office hours, live session and / or on their own or in study groups. The solutions to these problems will be available on Canvas, and questions may be asked and are very much encouraged. These questions can be presented and answered in office hours, over email, or in a separate online session with the professor set up by the student. These homework assignments are crucial to the student's understanding of the material and will make up a large portion of the material covered on the midterm and the final exam.

A course grade of *Incomplete* (I) will be given only in the case of extraordinary circumstances that prevent the student from finishing the semester. Students must have completed at least 50% of the course with a passing grade to be eligible for an *Incomplete* grade.

Course Synchronous Session Schedule

Table 3: Course Schedule for Each Week of the Course

Week/Unit	Topic	Deliverable	Reading Assignment	HW Problems
1	Stationarity	For Live Session Assignment 1 due by 1pm the day of LS1 LS = "Live Session"	Chapter 3: Great Review to lead into time series: pg. 75-89 Required: pg. 89-110	Ch 3: Problems: 1-6,9,10
2	Frequency Domain	For Live Session Assignment 2 due by 1pm the day of LS2	Chapter 4	Chapter 4: Problems: 1-2
3	Filtering and the AR(1) Model	For Live Session Assignment 3 due by 1pm the day of LS3	Chapter 5.1	Chapter 4: Problem 4 Chapter 5: Problem 1 XTRA: Problem 3
4	AR(p) Models	For Live Session Assignment 4 due by 1pm the day of LS4	Chapter 5.1.2 and 5.1.3	Chapter 5: Problems 2,3 and 4
5	ARMA(p,q) Models	For Live Session Assignment 5 due by 1pm the day of LS5	Chapter 5.1.4 and 5.2 to the end of the Chapter 5.	Chapter 5: Problems 5,6,7 and 8
6	ARIMA(p,d,q) Models	For Live Session Assignment 6 due by 1pm the day of LS6	Chapter 7.1.1	Chapter 7: Problems 1 and 2
7	Forecasting	For Live Session Assignment 7 due by 1pm the day of LS7	No Reading This Week	Focus

				Completely on FLS and Starting Review for the Midterm
8	Midterm			
9	Estimating Parameters in Stationary Models	For Live Session Assignment 9 due by 1pm the day of LS9	Chapter 6.1 Putting it all together: Chapter 6.2	Chapter 6: Problems 1,2,11 and 12
10	Estimating Parameters in Non-Stationary Models	For Live Session Assignment 10 due by 1pm the day of LS10	Chapter 7.1.2, 7.1.3 and 7.2.2 and 7.2.3	Chapter 7: Problems 5,6 and 9
11	Model Building	For Live Session Assignment 11 due by 1pm the day of LS11 & Project Plan, Data, Initial EDA, and Video Presentation Due	Chapter 9	Chapter 9: Problems: 1 - 4
12	Multivariate Time Series Models (VAR)	For Live Session Assignment 12 due by 1pm the day of LS12	Chapter 10	Chapter 10: Problems: 1,2,5
13	Neural Networks: MLP and RNN/LSTM	For Live Session Assignment 13 due by 1pm the day of LS13	Chapter 11	Chapter 11: Problems: 1,2,4,8
14	Project	Final Project Documentation and Video Presentation Due		
15	Final Exam			

Grade Grievance Policy

Students are responsible for saving all graded materials as evidence in case of a discrepancy with the assigned grades. Students are responsible for ensuring that all grades are correctly reflected on the grade store. Any identified discrepancies should be brought to the attention of the instructor as soon as the discrepancy is found.

Refer to the university catalogue for the university policy and process for grade grievances.

Assignment and Collaboration Policy

Data science is an inherently collaborative subject, and learning often occurs best when subjects are taught both to and from peers. Collaboration is expected to occur both in learning the course material and in performing the course work. However, each student must hand in their own work performed by themselves unless explicitly allowed by written directions given by the instructor. Collaboration means helping one another learn the material. Collaboration does not mean copying answers from one another. A good process is to ask questions and have discussions in groups and to always write up answers alone.

Assignment submissions that contain substantially the same answers shall receive a grade of zero on the first instance and a course grade of F upon a second instance. In order to mitigate potential issues and questions of similarity, peers with whom a student collaborates should be clearly identified by that student in their submissions.

Scholarly Expectations

Work submitted at the graduate level is expected to demonstrate critical and creative thinking skills and be of significantly higher quality than work produced at the undergraduate level. To achieve this expectation, all students are responsible for giving and receiving peer feedback of their work. Students are also expected to resolve technical issues, be active problem solvers, and embrace challenges as positive learning opportunities. Data science professionals must be able to teach themselves and teach others to fill in any gaps in their knowledge or to find a way of learning new material that is most conducive to their learning style. Data science professionals must also be able to work cooperatively and collaboratively with others—skills that students are expected to practice in this course. Students are expected to ask questions and ask for help when they need it and to offer help when others are in need.

Absent questions or requests for assistance, instructors must assume that students understand the material being

covered and are able to complete the assignments. It is primarily through your questions that the instructor learns where the students are struggling to understand and on which topics more time needs to be spent for the students' benefit.

Timeliness

Because a 15-week term goes by quickly, assignments must be submitted by the designated due dates. The FLS is designed to enhance the live session and a solution is given after each live session; therefore, FLS assignments cannot be turned in late. Projects lose 10% per day up to 3 days at which point a 0 is assigned. When a project incorporates peer review, it is imperative that all projects be available at the beginning of the review period and that reviews are completed by the end of the review period so that others may incorporate feedback into project revisions. You will have plenty of notification and time to complete course assignments. If you know you are going to be out of town, involved in a special event/project, or unable to access a computer, please plan ahead. Also ensure that you have a backup plan ready in the event you lose power, internet access, or your available technology.

Time Commitment

As a technical graduate level course, it is expected that students will spend between three and four hours beyond course instruction for each hour spent in instruction. MSDS courses are designed to have approximately three hours of course instruction, or contact hours, per week of the course. Therefore, it is expected that students will spend between 10 and 14 hours per week total on this course.

Attendance Policy

Attendance and on-camera participation at the weekly synchronous sessions in this course are mandatory. Students with more than three (3) unexcused absences will receive a final grade of F for this course. It is the student's responsibility to notify the instructor if a synchronous session will be missed for either an excused or unexcused reason at least 24 hours, or as soon as reasonably possible, prior to the synchronous session. Class is fun! Looking forward to seeing everyone there!

Drop Policy

Refer to the university drop policy for a complete description of the drop and withdrawal policies for this course.

Campus Concealed Carry

Concealed handguns are prohibited on the Southern Methodist University campus. Pursuant to section 30.06, Penal Code (Trespass by License Holder with a Concealed Handgun), a person licensed under subchapter H, Chapter 411, Government Code (Handgun License Law), may not enter SMU property with a concealed handgun. Report violations to the Southern Methodist University Police Department by dialing 9-1-1 or 214-768-3388 (non-emergency) or 214-768-3333 (emergency).

Americans With Disabilities Act

Disability Accommodations: Students needing academic accommodations for a disability must first be registered with Disability Accommodations & Success Strategies (DASS) to verify the disability and to establish eligibility for accommodations. Students may call 214-768-1470 or visit <http://www.smu.edu/alec/dass> to begin the process. Once registered, students should then schedule an appointment with the professor to make appropriate arrangements. (See University Policy No. 2.4.)

Religious Observance

Religiously observant students wishing to be absent on holidays that require missing class should notify their professors in writing at the beginning of the semester and should discuss with them, in advance, acceptable ways of making up any work missed because of the absence. (See University Policy No. 1.9.) Failure to notify your professor prior to your absence will result in an unexcused absence and possibly a grade of zero for any assignments.

Excused Absences for University Extracurricular Activities

Students participating in an officially sanctioned, scheduled University extracurricular activity should be given the opportunity to make up class assignments or other graded assignments missed as a result of their participation. It is the responsibility of the student to make arrangements with the instructor prior to any missed scheduled examination or other missed assignment for making up the work.

Academic Integrity

It is the philosophy of Southern Methodist University that academic dishonesty is a completely unacceptable mode of conduct and will not be tolerated in any form. All persons involved in academic dishonesty will be disciplined in accordance with University regulations and procedures. Discipline may include suspension or expulsion from the University.

Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another

person, any act designed to give unfair advantage to a student, or the attempt to commit such acts.

Example of academic dishonesty: In this course, students who have taken the course before or students from past cohorts may have the answers to some homework problems. It is considered academically dishonest to share solutions with anyone who is currently taking the course before the instructor posts the solutions for those students. It is also academically dishonest to accept solutions before a student's instructor makes them available. This falls under the category of presenting someone else's work as your own and is not only a serious violation of the SMU Honor Code but severely detrimental to the student's understanding of the material. In general, if it feels the slightest bit wrong, it probably is. The safest thing to do is to consult your instructor with any questions before action is taken.

Students caught being academically dishonest shall receive a grade of F for this course and will be referred to the SMU Honor Council for a hearing and possible sanctions including a 3-year mark on the student's transcript or expulsion. On a more positive note, our overwhelmingly main goal is to facilitate and foster each student's educational experience in order to enable them to achieve their academic and professional goals as a data scientist. Furthermore, these measures are aimed at "protecting your degree" in order to ensure that those with a Master of Science in Data Science from SMU have the utmost respect throughout academical and industry. This is our passion, and it is an amazing experience when everyone is working together and working hard. Let's get to it!

University Honor Code

When you signed your letter of intent to enroll in the MSDS program, you initialed the following statement:

"I have read and agree to abide by the SMU Honor Code available online at:
<https://www.smu.edu/StudentAffairs/StudentLife/StudentHandbook/HonorCode>"

The Honor Code is taken seriously at all levels within the university. Students who are found to have violated the honor code will be disciplined, which often includes expulsion from the university.

Plagiarism (PLEASE READ THIS CAREFULLY!)

Plagiarism is the "practice of taking someone else's work or ideas and passing them off as one's own" (this definition is from Google Dictionary). An example of plagiarism is as follows:

A regression is a statistical analysis assessing the association between two variables. It is used to find the relationship between two variables.

The following is NOT plagiarism:

"A regression is a statistical analysis assessing the association between two variables. It is used to find the relationship between two variables" (<https://www.easycalculation.com/statistics/learn-regression.php>).

The difference is in the punctuation and the attribution. Note that one can self-plagiarize. If you are using something that you wrote (e.g., a blog or a previously published article), please reference yourself.

DO NOT PLAGIARIZE. If you have any question as to what is and what is not plagiarism, ask your instructor. As a general rule, always use your own words and cite your source.

The consequence for being caught plagiarizing is to earn at least a zero on the identified assignment and may include earning a course grade of F and a referral to the SMU Honor Council for your Honor Code violation.

Best Practices for Success in the Course

Attendance. Take responsibility for your commitment. Attendance means not only being there for synchronous sessions but also participating in asynchronous work.

Citizenship. You need to be actively engaged to succeed in this class. Talking on cell phones, texting, “Facebooking,” tweeting, or leisure web browsing are prohibited in class. I consider these to be a disruption (not to mention rude).

Integrity. A lot of the graded work occurs outside of class, so I expect honesty and integrity in what you submit for evaluation. Evidence of academic dishonesty will minimally result in zeros for all involved parties and perhaps University-level disciplinary action. Don’t risk your career.

Humility. Don’t get lost! Ask questions in class. If something isn’t clear to you, it probably isn’t clear to others either. Questions may arise because I haven’t made a connection clear or have inadvertently left out an important point. Your question gives me a chance to explain more clearly. Don’t be proud or shy.

Organization. Don’t procrastinate! This is a technology-driven course. Count on your computer failing or your wireless connection breaking the night before a due date. Start early, and give yourself a chance to succeed.

Deadlines. You will generally have a week to complete an assignment. Due dates and times will be clearly indicated. Late submissions will be penalized, but it is much better to turn in work late than not at all (or to turn in incomplete/sloppy work). Work turned in after solutions have been posted to the course website will receive no credit.

Getting help. If questions arise while doing assignments/exams, do your best to resolve these questions before the assignment is due, first by taking time to seek answers yourself, next by asking questions on the wall, and finally via email to your instructor or other students. I encourage you and expect you to seek help. For questions during exams, please email the live session instructor directly.

Collaboration. I encourage the formation of study groups and collaboration with your fellow students in tackling the assignments. Working together in groups on homework is permitted, even encouraged. However, every student should write up and complete their homework independently. Talking about problems with other people does help in learning, but just copying the solutions from one another doesn’t help!

Looks do matter! All assignments must be NEATLY executed and organized. You risk a zero on any assignment submitted in a sloppy manner. See submission guidelines for more detail.

Have fun! Learning is meant to be a fun activity. While it can be difficult, time consuming, frustrating, and sometimes disappointing, always seek to find the fun in what you are doing and learning. The gratification from learning complex concepts and applying them to solve hard problems is what we are all striving to achieve. Having fun while we are learning and teaching others just makes the learning easier and friendships better.