

Math 183 – Elements of Modern Mathematics Syllabus for Summer Session I 2017

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Office hours:

Monday & Wednesday	for ≈30 minutes after class ends
Tuesday	1:00 – 1:45 & for ≈30 minutes after class ends
Thursday	1:00 – 1:45

Course Format: The course will meet from 2:00 to 4:25 Mon-Thurs in Carnegie 219. Typically we will start with questions on the homework. You are encouraged to ask about problems with which you have trouble. Then we will go over new material. Any quizzes or tests will be at the end of the class period.

Course Description: This course is designed for students in the School of Management. The course will involve no calculus, and a thorough background in high school mathematics is the only prerequisite. The course has three main components: Linear Algebra, Probability & Statistics, and the Mathematics of Finance.

Textbook: Goldstein, Schneider, and Siegel (2014), *Finite Mathematics and its Applications* (3rd custom ed.) Pearson, Custom Edition for Syracuse University. The bookstore sells the textbook and WebAssign code together in a bundle. If you already have the text, or if you purchase a used copy, you can purchase WebAssign separately online. A WebAssign code is mandatory, since homework will be done using WebAssign. See below for detailed instructions on how to register for WebAssign.

Calculator: This course involves extensive use of the TI-84 or TI-83 graphing calculator. Each student is required to have a TI-83/4 calculator. The calculator will prove to be an indispensable tool throughout the course. Since the TI-83/4 will be useful, if not essential, for virtually every topic, it is important to familiarize yourself with the calculator as soon as possible. Though the main techniques will be demonstrated in class, it is up to you to become proficient with the calculator on your own. **The TI-83/4 is the only calculator that may be used on a test. In particular, calculators on cell phones are not to be used on tests or quizzes.**

Quizzes: There will be a quiz in class every Tuesday and Thursday, except on a Test day. There will be **no make-up quizzes**. Your two lowest or missing quiz scores will be dropped.

Homework: Homework will be done online using WebAssign. You are required to purchase your entry code for this online system; it is bundled with the custom edition of the text, or you may purchase it online. The first 14 days of WebAssign is free. The trial period (the grace period) will end on June 5. After this date you cannot access your homework without the access code. Each class day a set of WebAssign problems will be assigned. They will be due at 11:00 pm 4 days later. The instructions for how to initiate your WebAssign access are at the end of this document.

WebAssign Class Key: syr 5156 9685

Extension Policy: If you do not complete a homework assignment in the 4 days allotted you may request an extension on WebAssign. It will be automatically granted, giving you a total of 6 days to complete your problems. There will be no other extensions. No extensions will be granted beyond the 6 days. There is no other way to request extensions. Any problems submitted in the 2 day extension window will earn only 50% of their point value. Questions answered before the original due date are not affected and they are counted 100%.

Extra Credit Policy: You will receive 50% extra credit for correct answers submitted in the first 2 days an assignment is posted. Most problems will have 10 submissions allowed. **Submit your questions one by one. DO NOT submit the entire homework. If you submit the homework there is no way to go back and correct your work or submit the remaining questions.**

Grading Policy: Your grade will be based on the your performance on homework, quizzes and the three tests, those grades being weighted as follows.

Test 1	25%
Test 2	25%
Final Exam	30%
Quizzes	10%
Webassign	10%

After numerical grades are combined as above, letter grades will be assigned as follows:

A	93 – 100 %	A-	90 – 92.9%	B+	87 – 89.9%	B	83 – 86.9%
B-	80 – 82.9%	C+	77 – 79.9%	C	73 – 76.9%	C-	70 – 72.9%
D	60 – 69.9%	F	0 – 59.9%				

TESTS: There will be three tests during the session, on alternate Thursdays. There will be 60 minute tests on June 1 & June 15, and a two-hour comprehensive final exam on the last day of class, June 29. **There will be no make-up exams, even in the case of an emergency.** With an acceptable excuse your missed test score will be replaced by your score on the relevant portion of the final exam.

Important Dates:

Monday, May 22	Add Deadline
Monday, May 29	Memorial Day – No Class!
Tuesday, May 30	Financial Drop Deadline
Thursday, June 1	Test 1
Wednesday, June 14	Academic Drop Deadline
Thursday, June 15	Test 2
Friday, June 23	Withdrawal Deadline
Thursday, June 29	Final Exam & Last day of class

Class Attendance and Participation: You are expected to attend and participate in class. Missing class is the most common reason for poor performance in the course. **If you miss a class, you are responsible for obtaining notes for that class from a student who attended. It is also your responsibility to find out about any announcements made in class.** Summer courses move extremely quickly, so missing class will have a seriously adverse effect on your learning.

Help: Prof. Shaw will hold regular office hours. In addition, the Mathematics Department offers regular math clinics. These will start the first day of classes and will be held in Carnegie 102. A schedule of clinic hours is posted on Blackboard under “Content”.

Course-related problems. Please inform Prof Shaw of any problems you have with this course.

Cell Phones: All electronic devices other than the calculator should be silenced and put away during class. Calculators on cell phones are not to be used on tests or quizzes.

University and Math Department Policy Statements:

Academic Integrity Policy

Syracuse University’s academic integrity policy reflects the high value that we, as a university community, place on honesty in academic work. The policy defines our expectations for academic honesty and holds students accountable for the integrity of all work they submit. Students should understand that it is their responsibility to learn about course-specific expectations, as well as about university-wide academic integrity expectations. The university policy governs appropriate citation and use of sources, the integrity of work submitted in exams and assignments, and the veracity of signatures on attendance sheets and other verification of participation in class activities. The policy also prohibits students from submitting the same written work in more than one class without receiving written authorization in advance from both instructors. The presumptive penalty for a first instance of academic dishonesty by an undergraduate student is course failure, accompanied by a transcript notation indicating that the failure resulted from a violation of academic integrity policy. The presumptive penalty for a first instance of academic dishonesty by a graduate student is suspension or expulsion. SU students are required to read an online summary of the university’s academic integrity expectations and provide an electronic signature agreeing to abide by them twice a year during pre-term check-in on MySlice. For more information and the complete policy, see <http://academicintegrity.syr.edu/>.

Disability-Related Accommodations

If you believe that you need accommodations for a disability, please contact the Office of Disability Services (ODS), <http://disabilityservices.syr.edu>, located in Room 309 of 804 University Avenue, or call (315) 443-4498, TDD: (315) 443-1371 for an appointment to discuss your needs and the process for requesting accommodations. ODS is responsible for coordinating disability-related accommodations and will issue students with documented Disabilities Accommodation Authorization Letters, as appropriate. Since accommodations may require early planning and generally are not provided retroactively, please contact ODS as soon as possible.

Diversity and Disability

Syracuse University values diversity and inclusion; we are committed to a climate of mutual respect and full participation. My goal is to create learning environments that are useable, equitable, inclusive and welcoming. If there are aspects of the instruction or design of this course that result in barriers to your inclusion or accurate assessment or achievement, I invite any student to meet with me to discuss additional strategies beyond accommodations that may be helpful to your success.

Religious Observances Notification and Policy

SU religious observances notification and policy, found at <http://hendricks.syr.edu/spiritual-life/index.html>, recognizes the diversity of faiths represented among the campus community and protects the rights of students, faculty, and staff to observe religious holidays according to their tradition. Under the policy, students are provided an opportunity to make up any examination, study, or work requirements that may be missed due to a religious observance provided they **notify their instructors before the end of the second week of classes** for regular session classes and by the submission deadline for flexibly formatted classes. For fall and spring semesters, an online notification process is available for students in **My Slice / StudentServices / Enrollment / MyReligiousObservances / Add a Notification**.

Learning Outcomes:

- The ability to select an appropriate mathematical model for a given real world problem;
- The ability to understand and enunciate the limitations of conclusions drawn from mathematical models;
- The ability to effectively use appropriate mathematical technology;
- A mastery of the basic properties of matrices and the ability to solve simple matrix equations;
- A mastery of the basic properties and formulas of probability and statistics and the ability to compute simple probabilities in a statistical setting and to interpret the results;
- A mastery of the basic formulas from the mathematics of finance and the ability to apply these formulas in a variety of settings that arise in personal finance.

How to Succeed:

1. Do your homework, using examples from class and your textbook as models. It is essential that you understand how to solve the assigned problems, since quiz and exam questions will be similar to these problems. Complete, written solutions from you (not just copied from the Professor's work) will be the most valuable for you.

2. Ask questions. If something is not clear, ask about it in class or office hours as soon as possible. Ask to see homework problems you have trouble with.

3. Keep up with the material. Calculus concepts build on each other cumulatively and you need to stay on top of the material at every stage. If you are having difficulty, don't expect that the problem will take care of itself and disappear later. We will be moving very quickly through the material and it is easy to fall behind. You will also want to do well on the daily quizzes.

4. Form a study group. Working together is a great way to learn mathematics, as long as you make sure you understand the problems discussed. A solution you copy from someone else doesn't help you unless you learn how to do it yourself. In particular, connect with someone in the class who takes good notes, so that if you miss class you can get the notes easily.

WebAssign Registration Instructions for MAT 183 Spring 2016

1. Go to www.webassign.net
2. Click on ENTER CLASS KEY.
3. Enter the class key by entering "syr" in the first box, 5156 in the second box, and 9685 in the third box; then click SUBMIT.
4. If you see "Instructor: Kari Shaw" and then click on YES, THIS IS MY CLASS.
5. Select "I need to create a WebAssign account" (if you do not have an account associated to your SU email from an earlier class or another semester. If you have an account associated to your SU account, then choose "I already have a WebAssign account".)
6. Enter a user name and password of your choice. NEVER CHANGE YOUR USERNAME! (If you change your username, then the system duplicates your account and you may lose some of your homework).

Enter your name and Last Name.

Enter your SU email account [**Use your SU email account**. No gmail, yahoo, Hotmail, or any other account. I receive your scores according to your email address.] If you use any email not ending as @syr.edu, you may lose your homework scores.

Enter your SU Student ID.

Then click on "Create my Account".

7. The next page confirms your information, so click on LOG IN NOW.

8. You should be logged in now. Select one of the options:

- enter an access code (purchased with your textbook from the bookstore)
- purchase an access code online (if you do not have an access code)
- continue my trial period (only available until June 5)

Note that after June 5 the trial period will end and you will not be able to access your homework without an access code.

WebAssign Warnings:

*Submit each question individually. **Never** submit the entire assignment at once. If you submit the entire assignment even I do not have the ability to give you more attempts.

***If you see a green check mark next to a question you have submitted then your answer to that question is correct. You do not have to do anything further with that question.**

*You can see your points per question and your total points at the top of the page under the “Extension Requests” & “Print Assignment” links. If you see your score, and it is correct, then you do not have to do anything else. Contact me only if there is an error in your score.

*If there are no explicit directions to enter the solution then enter your answer as a number: integer, decimal or fraction. Usually a fraction is the safest method. In particular, do not enter expressions like “5C(5,2)” or “1-35/2”.

*If there are any explicit directions then follow the directions.

*Check that your email address is your Syracuse email and your ID number is correct. At the end of the session I will import your grades and use them according to your Syracuse ID.

***NEVER** change your username. It creates a second account, instead of just changing your existing account.

*Note that all due times are 11:00 pm. That is local time in New York State. If you are in another state or country, check your time zone and submit your work according to NY time.

*In general, if you have trouble logging in, try the following:

- restart your web browser
- restart your computer/laptop
- use Firefox instead of other web browsers. In particular, if you have a Mac you should use Firefox instead of Safari.