MATH 103 - COLLEGE ALGEBRA

Course Syllabus – Tuesday 8 AM – Minard 116

Fall Semester, 2019

Instructor: Mohamed Baghzali, Senior Lecturer, Department of Mathematics
Office: Minard 408H
Email: Mohamed.Baghzali@ndsu.edu
Phone: 231-9380

Web Pages: https://blackboard.ndus.edu/ (Blackboard will be your main website, this is where class announcements and important files will be posted regularly, and through which you will be accessing MML “MyMathLab” for online tutorials, assignments, quizzes, tests, and individual assignment scores)
http://www.pearsonmylabandmastering.com (use this only if Blackboard is down)
http://www.mathxl.com (use this only in case you have difficulty accessing MML through the sites above)

Office Hours: Monday, Wednesday, Friday 9:00-9:50, Tuesday 11:00-11:50; other times available by appointment.
Instructor’s Emporium Hours: Tuesday 10:00-11:00.

General Information:

<table>
<thead>
<tr>
<th>Title:</th>
<th>Mathematics 103 - College Algebra</th>
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<tr>
<td>Credits:</td>
<td>3 credits</td>
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<tr>
<td>Prerequisite:</td>
<td>Mathematics 098 (or equivalent) or appropriate placement test score</td>
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<td>Required for:</td>
<td>Mathematics 105</td>
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<td>Mathematics 144 &amp; 146</td>
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<tr>
<td>Text:</td>
<td>e-Course Series Algebra and Trigonometry 3/E by Kirk Trigsted (access code for MyMathLab and the Guided Notebook are included)</td>
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1. GOALS OF THE COURSE: The primary purpose of College Algebra is to improve students’ skills and competency in algebra so that they will be successful in calculus, the other math courses required for a major, and in the courses that use mathematics. Another goal is to help students develop their mathematical learning skills in order to be more confident in future mathematical courses.

2. LEARNING OUTCOMES: After completing Math 103, students should be able to:
   - Solve linear equations, quadratic equations, equations that are quadratic in form, rational equations, exponential equations, logarithmic equations, and systems of linear equations
   - Solve polynomial and rational inequalities
   - Determine the domain of polynomial functions, rational functions, root functions, exponential functions, and logarithmic functions
   - Understand the concept of composite functions, one-to-one functions, and inverse functions
   - Use synthetic division, the remainder theorem, the factor theorem, the fundamental theorem of algebra, and the intermediate value theorem to determine the zeros of polynomial functions
   - Sketch the graphs of basic functions using transformations including polynomial functions, root functions, absolute value functions, rational functions, exponential functions and logarithmic functions
   - Use critical thinking skills to solve word problems which include optimization problems in economics, physics, geometry, and other fields

3. REQUIRED STUDENT MATERIALS

The following two items are mandatory for this course and they are sold together as a package at the NDSU Bookstore located in the Memorial Union:

1. MATH 103 COURSE GUIDED NOTEBOOK: Must be purchased at NDSU Bookstore in the Memorial Union. Students will be required to bring this course book to class and to the Emporium Mathematics Center.
   Note: If you have an access code from one of the previous three semesters’ Math 103, you will only need to purchase the guided notebook (sold separately without the access code at the bookstore) and you must contact your instructor immediately!

2. MyPearson ACCESS CODE: Students must purchase a MyMathLab (MML) Access Code at the Bookstore. This access code will allow you to access the e-text for the course and complete all required online work.
STUDENT COMPUTER ACCOUNT: All students need a computer account. If you need help with your login information, go to the ITS Help Desk in one of the following locations:
- Quentin Burdick Building 150
- Library Main Floor
- Barry Hall 270

NDSU ID: All students will need their NDSU ID in order to use the Math Emporium Learning center and to take their exams both in class and at the center.

HEADPHONES: Headphones are needed to listen to the video lectures at the computers. Headphones are not to be used in the lab for anything other than this course. **Listening to music while in the lab is not allowed!**

NON-GRAPHING CALCULATOR: You will need a calculator to work on some problems from the assignments, quizzes and/or tests. A non-graphing calculator is allowed when testing. You should use a scientific calculator that is capable of computing an exponential or a logarithm. Look for a calculator with a "LOG" or an "LN" button. Two models that many students like are the TI 30XIIS (solar) or TI 30XIIB (battery). See more details on the calculator policy in section 12 below.

DISTRACTION NOTICE: During lecture and in the Emporium Center, put your cell phones, tablets, and laptops away and silent. They are a distraction to others and their use is **not allowed.** Any student who is caught using a cell phone in class or in the lab will be asked to leave and will receive zero credit on the notebook quiz or emporium attendance.

Disruption in the classroom and in the Emporium Center that affects the learning of others will not be tolerated.

Mymathlab Non-Registration Drops: Students who fail to register for MyMathLab by 11:59 pm on Thursday, August 29th will automatically be dropped from the course and will not be able to re-register for any section of Math 103 this semester.

Attendance Drops: Students who miss more than 20% of classes or more than 20% of assignments prior to the “Last day for no-record Drop of classes = September 4th” may be administratively dropped from the course at the discretion of the instructor.

4. GRADE CALCULATION

Your instructor will be posting weekly grade sheets in a folder located in Course Content of Blackboard. You are expected to print and fill out the appropriate grade calculation sheet for the week and copy all individual scores from MML. These grade sheets do not need to be turned in but should be used to keep track of your grades and to make sure they match with the instructor’s grades he will be posting as a spreadsheet on Blackboard.

In-Class Notebook Quiz (NBQ): Max 100 points
(10 points per class meeting; one class meeting dropped)
- There will be an in-class notebook quiz each week. You will be asked to turn in specific pages of your notebook or you will participate in another in-class activity as determined by your instructor. Make sure to bring your notebook to class. In-class notebook quizzes are worth 10 points. The work that you submit must be completely filled out and correct to earn your 10 points. The only possible scores are 0, 5 or 10 points.
- Notebook pages must be completely filled out prior to the beginning of class. All appropriate work must be shown to obtain credit.
- You must turn in only your own notebook pages. You cannot have another student turn them in if you are absent. Turning in notebook pages and leaving class immediately after will result in a score of 0 points for the notebook quiz of that week.
- If you arrive to class after the notebook quizzes have been collected, then you will not be allowed to turn them in, and you will receive 0 points for the notebook quiz of the week.
- Note that it usually takes up to three business days for Notebook Quiz scores to be posted. If your class meets on a Thursday, the scores may not be posted until the following Tuesday.

Emporium Lab Attendance (EA): Max 50 points
(5 points per week; one week dropped)
- Students will earn 5 points/week for attending the Mathematics Emporium Learning Center for at least 120 minutes (Note: 119 minutes = 0 points). The Emporium Lab attendance will be due at 10pm on the night before class.
- **Students who are not working on mathematics while attending the Emporium Center may be asked to leave and will automatically receive 0 points for the week.**
- **Students must log out every time they leave the emporium.** If you are logged on to an unattended computer, you will automatically be logged off and will receive 0 points for the week.
Homework: 100 points
(There are 11 homework assignments; one will be dropped)
- Students will earn up to 10 points for every homework assignment.
- There will be a homework assignment in MyMathLab (MML) every non-test week, due the night before the student’s class meeting. Most of these can be lengthy and getting started on them early and completing them simultaneously with the notebook pages is the most efficient way and highly recommended.
- You always have an unlimited number of attempts on the homework assignments. To improve your homework score, you only need to redo the problems you did incorrectly.
- To receive help in the Emporium Lab, students must demonstrate that they have first completed the appropriate pages of their course notebook.

Quizzes: 100 points
(There are 11 quizzes; one will be dropped)
- Students will earn up to 10 points for every quiz. There will be a quiz in MyMathLab (MML) every non-test week, due the night of the student’s class meeting.
- Students must earn at least 85% on the corresponding homework assignment before the quiz becomes available. Students will not be able to open the quiz and will therefore receive 0 points if 85% is not achieved on the corresponding homework assignment. Getting started on your weekly tasks early is key to getting things completed on time and successfully.
- Quizzes may be worked up to 10 times; only the highest score will count. To improve your quiz score, you must redo the entire quiz. Each quiz includes 10 questions.

Tests: 300 points
(3 tests worth 100 points each)
- There will be three tests throughout the semester, each worth 100 points. The last day to take a computer test will be the day BEFORE the student’s class meeting.
- The computer portion of each test will be proctored in the Emporium Lab; written tests will take place in class. You must have a valid photo ID to test in the Emporium Lab. If you do not bring a photo ID to your written test, you will be required to see your instructor before leaving the test location.
- Students must receive at least 60% on the corresponding practice test before their first attempt on each computer test.
- Students will have the opportunity to take each computer test up to 3 times with only the highest score counting toward the test grade. Students may only take one test per calendar day. If a student takes more than one test per day, then only the first test score for that day will count.
- Tests 1 & 2 have two parts: a computer portion which is taken in the Emporium Lab, and a written portion which is taken during the following class period. Tests are worth 100 points, which are calculated as: 60% of the best computer score + the written score which is worth 40%. For example, suppose you took the computer portion of Test 1 three times and received a 60, 75, and 89 out of 100. You then took your written test and received 32 out of 40. Your total point score for Test 1 would be 0.6*89+32, or 85.4/100.
- Test 3 is completely online and will be taken in the emporium lab.
- Early written tests must be requested by email through the course webpage in MML at least 24 hours or one business day (whichever is greater) before you wish to take the test. Your instructor will determine whether you are eligible to take an early test.
- Make-up tests will only be given for students with a valid excuse (see Section 10 below.)

Final Exam: 150 points
- There will be one comprehensive written final exam worth 150 points during Finals’ week (Monday, December 16th.)
- The time of the final exam will be 3:15-5:15 pm and the location will be announced in class and posted on Blackboard.
- Students should not make travel arrangements until after taking their final exams.

Total: 800 points

Extra Credit: 10-25 points

Students will have the opportunity to earn up to 10 points of extra credit: All students are allowed access to this Extra Credit assignment. The Extra Credit Assignment is an online homework assignment from 11.1-11.3 and will be due on the last day of the semester prior to Finals’ week (this extra credit will be due at 11:59 pm on Friday, December 13th.)

Other extra credit opportunities, worth up to 15 points, may be offered throughout the semester, you must be present in class when they are given to get the chance of earning them. These extra credit points can make a difference in your final grade and taking advantage of them is highly recommended.

You should check your in-class notebook quiz scores and Lab time commitment scores on the gradebook of MML each week to verify that they are correct.
Your course grade will be based on the total number of points \( X \) that you have earned as follows:

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<td>( X \geq 716 )</td>
<td>( 636 \leq X \leq 715 )</td>
<td>( 556 \leq X \leq 635 )</td>
<td>( 476 \leq X \leq 555 )</td>
<td>( X \leq 475 )</td>
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When adding up your points, remember to drop your lowest non-test scores and to add any extra credit points!

YOUR WEIGHTED AVERAGE FOR THE COURSE: Grade sheets after every task week are posted on Blackboard. These will need to be filled out by the student to figure out what your current course grade at any given time of the semester. After Test 1, the instructor will post a pdf spreadsheet with category scores and your total number of points with letter grades. Students will be asked to choose their own confidential 4-digit code numbers to use in the spreadsheet at that time. If your grades’ total do not match with the spreadsheet, be sure to contact your instructor to make sure you receive proper credit.

5. TIMING

In most three-credit college courses the average student spends 9 to 12 hours per week to be successful in the course. In traditional courses, students spend 3 hours in a lecture and 6 or more hours working alone, usually doing homework assignments and studying. In this course, you will spend one hour in a classroom setting (attending a class meeting), and as much time as you need participating in Emporium Lab activities per week. We require that 2 of those additional hours be spent with us in the Emporium Lab where some of our best resources are available to you, but you are always welcome to spend more; many of our students report that they like to spend all their math time in the Emporium Lab where assistance is available. You will receive credit toward your final grade for conscientiously attending class and putting in the 2 hours a week in the Emporium Lab.

6. MATH EMPORIUM LEARNING CENTER HOURS OF OPERATION

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<th>Emporium Lab (located in Library 20D)#</th>
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<td>Monday – Thursday 10am - 10pm</td>
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<td>Friday 10am - 5pm</td>
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<td>Sunday 5pm - 10pm</td>
<td>Sunday 5pm - 8pm*</td>
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(*Latest start times 90 minutes prior to closing to guarantee test completion. Best testing times are in the morning to ensure a computer.)

Sunday testing only available the weekend before the test deadlines.

LIVE-LECTURES: There will be 3 face-to-face live-lectures given each week. See the live-lecture schedule (updated every week) on the Blackboard course webpage for times and locations. It is optional to attend these live-lectures but they are available weekly and will serve as a handy addition to learning the material and to your interaction with your Teaching Assistants and Mathematics.

7. COMMUNICATIONS AND EMAIL

Announcements about the course, special sessions, changes in schedules or procedures, and so forth, will be made in your class and on the class webpage on Blackboard. You are expected to attend class and to check your blackboard webpage regularly.

The best way to communicate with your instructor is to speak to them in person during their office hours or when they are present in the Emporium Lab. The instructor’s emporium and office hours are listed on the first page of this syllabus and your instructor’s entire schedule is also posted on Blackboard under “Miscellaneous”.

All emails are welcome but must be sent through Blackboard or MML (MyMathLab) by clicking on ”Send Email” icon located on the left side. This way, we know from which sections these emails are coming and it makes responding to them more efficient. Emails sent from elsewhere will not get prompt attention, so please refrain from using this method to send emails.

8. STUDENTS WITH SPECIAL NEEDS

Any students with disabilities or other special needs, who need special accommodations in the course are invited to share these concerns or requests with the instructor and contact the Disability Services office (www.ndsu.edu/disabilityservices) as soon as possible. We are committed to accommodate such students. If you need special accommodation, see Student Support Services or Student Disability Services. We will work with them to supply you with the appropriate tools and services.

9. ACADEMIC HONESTY

Emporium students are expected to maintain Academic Honesty in all their work. Collaboration is encouraged on many assignments such as homework, and tutors are available to assist you with this kind of work. However, your instructor may assign other work or quizzes that should be completed independently. Copying another student’s work on any assignment, homework or quiz is considered cheating. All tests and the final exam are considered individual work and must be completed without unauthorized assistance of any kind, including the help of other students, tutors, notes, or graphing calculators. All test materials and scratch paper are to be turned in
with the test paper and attempting to bring test work out of the testing area and/or share that work with other students is considered cheating.

The academic community is operated on the basis of honesty, integrity, and fair play. NDSU Policy 335: Code of Academic Responsibility and Conduct applies to cases in which cheating, plagiarism, or other academic misconduct have occurred in an instructional context. Students found guilty of academic misconduct are subject to penalties, up to and possibly including suspension and/or expulsion. Student academic misconduct records are maintained by the Office of Registration and Records. The full text of the Student Code of Conduct may be found at https://www.ndsu.edu/fileadmin/policy/335.pdf

Informational resources about academic honesty for students and instructional staff members can be found at www.ndsu.edu/academichonesty

10. ASSIGNMENT/TEST EXTENSIONS

Make up work for assignments missed because of absence will not be allowed unless an arrangement with the instructor is made prior to the absence, or in cases of medical or family emergency, in which case documentation of the emergency will be required. Documentation must be provided within two business days of the assignment’s due date, not to exceed Friday, December 13th. Bring appropriate documentation to your instructor during office hours.

Field trips and official student travel require preparation and notification in advance of departure.

Note that problems with your personal computer or internet connection are not grounds for an extension or make-up work.

It is often the case that students wait until the last few hours of the due date/time of an assignment. As a result, if something comes up during those hours, you might not be able to finish your homework on time, and that will not grant you an extension. You need to get started early on your assignments since you have at least an entire week to complete each one. Waiting until the last day to complete assignments and tasks adds more pressure on students and they end up trying to desperately finish them more than trying to learn and retain that information; this habit is not a proper way to get things done in this course.

All students should follow the course calendar/schedule very closely (see section 11 below and blackboard’s Course Content) to help them be more successful in the course.

11. TENTATIVE SCHEDULE

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<td>* First Day - Syllabus</td>
<td>* Register for MML</td>
<td>* Complete sec. 1.1 Notebook pages &amp; questions 1-13 from HW #1</td>
<td>* Students who fail to register for MML by 11:59pm will automatically be dropped from the course!</td>
<td>* Complete sec. 1.3 Notebook pages &amp; questions 14-26 from HW #1</td>
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<td>* Online Diagnostic Test, Syllabus Quiz, NBQ1, HW1, Q1 open &amp; EA1 starts</td>
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<td>Emporium Lab closed!</td>
<td>Emporium Lab closed!</td>
<td>Labor Day Holiday</td>
<td>* NBQ 1 Due @11:59pm</td>
<td>* EA1 Due @10:00pm</td>
<td>* Online Diagnostic Test Due @ 11:59pm</td>
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<td></td>
<td>* Complete sec. 1.4 Notebook pages &amp; questions 27-42 from HW #1</td>
<td>* HW #1 Due @11:59pm</td>
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<td>* Q 1 Due @11:59pm</td>
<td>* EA 2 starts</td>
<td>* Complete sec. 1.5 Notebook pages &amp; questions 1-9 from HW #2</td>
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<td>* EA2 Due @10:00pm</td>
<td>* NBQ 2 Due in class @8:00am</td>
<td>* Complete sec. 1.6 Notebook pages &amp; questions 10-26 from HW #2</td>
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<td>* Complete sec. 1.9 Notebook pages &amp; questions 18-39 from HW #3</td>
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<td>* HW #2 Due @11:59pm</td>
<td>* Q 2 Due @11:59pm</td>
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<td>* EA 3 starts</td>
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<td>* Complete sec. 2.1 Notebook pages &amp; questions 40-52 from HW #3</td>
<td>* EA3 Due @10:00pm</td>
<td>* NBQ 3 Due in class @8:00am</td>
<td>* Complete sec. 2.2 Notebook pages &amp; questions 1-16 from HW #4</td>
<td>* Complete sec. 2.3 Notebook pages &amp; questions 17-34 from HW #4</td>
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<td>Emporium Lab closed!</td>
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<td>* Complete sec. 2.4 Notebook pages &amp; questions 35-50 from HW #4</td>
<td>* EA4 Due @10:00pm</td>
<td>* NBQ 4 Due in class @8:00am</td>
<td>* Test 1A available at Emp Lab for up to 3 attempts</td>
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<td>* Test 1A available at Emp Lab for up to 3 attempts</td>
<td>* Test 1A (Computer Test worth 60 points) closes @10:00pm in Emporium Lab</td>
<td>* Test 1B (In-class Test worth 40 points)</td>
<td>* Complete sec. 3.1 Notebook pages &amp; questions 1-21 from HW #5</td>
<td>* Complete sec. 3.2 Notebook pages &amp; questions 22-41 from HW #5</td>
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<td>Emporium Lab closed!</td>
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<td>* Complete sec. 3.3 Notebook pages &amp; questions 42-55 from HW #5</td>
<td>* EA5 Due @10:00pm</td>
<td>* NBQ 5 Due in class @8:00am</td>
<td>* Complete sec. 3.4 Notebook pages &amp; questions 1-27 from HW #6</td>
<td>* Complete sec. 3.4 Notebook pages &amp; questions 1-27 from HW #6</td>
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<td>* Complete sec. 3.6 Notebook pages &amp; questions 49-62 from HW #6</td>
<td>* EA6 Due @10:00pm</td>
<td>* NBQ 6 Due in class @8:00am</td>
<td>* Complete sec. 4.1 Notebook pages &amp; questions 1-13 from HW #7</td>
<td>* Complete sec. 4.2 Notebook pages &amp; questions 14-30 from HW #7</td>
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<td>Emporium Lab closed!</td>
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<td>* Complete sec. 4.3 Notebook pages &amp; questions 31-49 from HW #7</td>
<td>* EA7 Due @10:00pm</td>
<td>* NBQ 7 Due in class @8:00am</td>
<td>* Complete sec. 4.4 Notebook pages &amp; questions 1-21 from HW #8</td>
<td>* Complete sec. 4.5 Notebook pages &amp; questions 22-41 from HW #8</td>
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<td>Emporium Lab closed!</td>
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<td>* EA8 Due @10:00pm</td>
<td>* NBQ 8 Due in class @8:00am</td>
<td>* Test 2A available at Emp Lab for up to 3 attempts</td>
<td>* Test 2A available at Emp Lab for up to 3 attempts</td>
<td>* Test 2A available at Emp Lab for up to 3 attempts</td>
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<td>Nov 6</td>
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<td>Nov 8</td>
<td>Nov 9</td>
</tr>
<tr>
<td>* Test 2A available at Emp Lab for up to 3 attempts</td>
<td>* Test 2A (Computer Test worth 60 points) closes @10:00pm in Emporium Lab</td>
<td>* Test 2B (in-class Test worth 40 points)</td>
<td>* Complete sec. 4.6 Notebook pages &amp; questions 1-18 from HW #9</td>
<td></td>
<td>Emporium Lab closed!</td>
<td></td>
</tr>
</tbody>
</table>

Nov 10

Emporium Lab closed!

* Complete sec. 5.1 Notebook pages & questions 19-56 from HW #9

Nov 11

Veterans’ Day Holiday

Emporium Lab closed!

* HW #9 Due @11:59pm

Nov 12

* NBQ 9 Due in class @8:00am

* EA9 Due @10pm

* Q 9 Due @11:59pm

* EA 10 starts

Nov 13

* Complete sec. 5.2 Notebook pages & questions 1-52 from HW #10

Nov 14

* Last day to drop fall classes with “W” record!

Nov 15

* HW #9 Due @11:59pm

Nov 16

* NBQ 9 Due in class @8:00am

* Q 9 Due @11:59pm

* EA 10 starts

Nov 17

* Complete sec. 5.3 Notebook pages & questions 53-84 from HW #10

Nov 18

* EA10 Due @10:00pm

* HW #10 Due @11:59pm

Nov 19

* NBQ 10 Due in class @8:00am

* Q 10 Due @11:59pm

* EA 11 starts

Nov 20

* Complete sec. 5.4 Notebook pages & questions 1-44 from HW #11

Nov 21

* HW #10 Due @11:59pm

Nov 22

* Extra Credit (Chap11 HW) Due @11:59pm

Nov 23

* NBQ 10 Due in class @8:00am

* Q 10 Due @11:59pm

* EA 11 starts

Nov 24

* Complete sec. 5.5 Notebook pages & questions 45-55 from HW #11

Nov 25

Emporium Lab closes for break at 4:00 pm!

Nov 26

Thanksgiving Break

Emporium Lab closed!

Nov 27

Emporium Lab closed!

Nov 28

Emporium Lab closed!

Nov 29

Emporium Lab closed!

Nov 30

Emporium Lab closed!

Dec 1

Emporium Lab closed!

Dec 2

* EA11 Due @10:00pm

* HW #11 Due @11:59pm

Dec 3

* NBQ 11 Due in class @8:00am

* Q 11 Due @11:59pm

* Test 3 & Final Exam Review

* Test 3 opens @10:00am in Emporium Lab

Dec 4

* Test 3 available at Emp Lab for up to 3 attempts

Dec 5

* Test 3 available at Emp Lab for up to 3 attempts

Dec 6

* Test 3 available at Emp Lab for up to 3 attempts

Dec 7

Emporium Lab closed!

Dec 8

* Test 3 available at Emp Lab for up to 3 attempts

Last day to take computer test 3 if you do not want to be tested during dead week!

Dec 9

* Test 3 (Computer Test worth 100 points) closes @10:00pm in Emporium Lab

Dec 10

* Final Exam Review

Dec 11

Emporium Lab closes for the semester at 10:00 pm!

Dec 12

Emporium Lab closed!

Dec 13

Emporium Lab closed!

Dec 14

Emporium Lab closed!

Dec 15

Emporium Lab closed!

Dec 16

* Final Exam @ 3:15-5:15pm worth 150 points - Room TBA

Emporium Lab closed!

Your final exam and course grades will be posted in the spreadsheet on Blackboard by Friday morning (December 20th). Attend class, work hard, don’t fall behind, complete all your tasks, seek help when you need it and you will do well in this course.

Good luck!
12. CALCULATOR POLICY

Graphing calculators are **NOT** allowed on tests and in the Emporium Lab!!!

A non-graphing calculator with logarithmic and exponential capabilities is required. The TI30 XIIS (solar) or TI30 XlIB (battery) with a two-line display (pictured below) is preferred.

Calculators with symbolic notation or natural display capabilities, such as the TI-30XS Multiview, the TI-34 Multiview, the TI-36XPro, and the Casio 115ES Plus or 300ES Plus Natural Textbook Display series, are **NOT** allowed on tests, on the Final Exam, or in the Emporium Lab.

Following are current examples of calculators **NOT** allowed on tests, or in the Emporium Lab:

Casio uses the description **Natural Display.**

HP uses the term **SmartCalc.**

Sharp uses the word **WriteView.**

TI sometimes uses the term **MultiView.**

Graphing calculators are **NOT** allowed on tests and in the Emporium Lab!!!