MthSc103 – Elementary Functions
Course Information and Policies

DESCRIPTION
Gateway course for MthSc106. Comprehensive treatment of functions and analytic geometry with applications including polynomial, rational, algebraic, exponential, logarithmic, and trigonometric functions. An introduction to limits, continuity, and derivatives will also be included. The lecture and lab are a combined 3 credit hours; a single Pass/Fail grade will be awarded for both the lecture and lab section.

PREREQUISITES
Demonstrated proficiency in college algebra, either by
a) a score of 3 or better on the Clemson Math Placement Test, CMPT, OR
b) credit for any MthSc course, obtained either at Clemson University, through transfer, or AP or IB credit OR
c) a passing score on the Algebra Exemption Test (AET).

Students who do not meet prerequisites will not be permitted to remain in the course.

Students with a score of 5 on the CMPT are eligible to take MthSc106. Students who score a 3 or 4 on the CMPT may meet prerequisites for MthSc 106 with a sufficient score on the Precalculus Basic Skills Test (BST) given the second day of class:

A CMPT score of 3 requires a BST score of 17 out of 25 or better to move to MthSc 106.
A CMPT score of 4 requires a BST score of 13 out of 25 or better to move to MthSc 106.

If you do not take the BST, a score of zero will be recorded.

REQUIRED TEXTS AND TECHNOLOGY


Software: MyMathLab, bundled with text.

Just-In-Time Algebra & Trigonometry for Calculus by Mueller and Brent. 3rd Edition. Boston, Massachusetts: Pearson Addison-Wesley, 2005

OTHER TECHNOLOGY
A scientific calculator (one including trig and log functions) is strongly recommended. Students will be expected to use either laptop computers or a calculator such as a TI-89 for homework and classroom exercises. Students will not be permitted to use laptop computers, calculators, cell phones, or any other technology on any unit test or the Final Exam.
WEBSITES
http://www.math.clemson.edu/ug/MthSc103/ -- General MthSc 103 site which includes this course policies document, a daily schedule including instructional objectives and due dates, announcements, and other useful information.

http://www.registrar.clemson.edu/publicat/catalog/2010/AcadReg.pdf -- Detailed information about Clemson University undergraduate class regulations including academic integrity, attendance policy, mid-term grades, final examinations, and posting of grades.

http://bb.clemson.edu -- Follow links to your section of Mthsc 103 in Blackboard. You are responsible for checking this website and your university e-mail account on a regular basis for announcements and class materials.

ACADEMIC DISHONESTY
Students are expected to adhere to the following official Clemson academic integrity statement:

"As members of the Clemson University community, we have inherited Thomas Green Clemson's vision of this institution as a “high seminary of learning,” Fundamental to this vision is a mutual commitment to truthfulness, honor, and responsibility, without which we cannot earn the trust and respect of others. Furthermore, we recognize that academic dishonesty detracts from the value of a Clemson degree. Therefore, we shall not tolerate lying, cheating, or stealing in any form."

You may get and give help with your classwork and homework (as allowed by your instructor), but do not submit another student's work.

USE OF WORK FROM A PREVIOUS SEMESTER
If you have taken this course previously, or have access to someone else’s work from a previous semester, you may use that work in the following ways:

- When completing homework assignments, you should work each problem anew. You may then compare your work to old work to determine if you need to rethink, reword, or rework aspects of the problem. You may not copy old work prior to attempting the problem. You may not submit the same work that was previously submitted.
- When completing MyMathLab assignments, you may look back at written notes you made in previous semesters.
- You may not use old learning activities in any way to complete a learning activity in class this semester. However, you may use old learning activities in completing any work outside of class.
- When preparing for midterm exams and the final exam, you are encouraged to review work and tests from previous semesters. Exams from previous semesters are also posted on the department’s MthSc103 website.

STRUCTURE
This course will be taught in SCALE-UP mode. (See http://scaleup.ncsu.edu/.) Class business and mini-lectures will occupy about 20-25 minutes of each class period. During the remaining time, you will work individually and in teams on various learning activities and quizzes. The
instructor and one to two assistants will serve as coaches during the learning activities. Student questions will often be answered for the benefit of the entire class.

Prior to each class meeting, you should ...

- Complete the recommended exercises from the previous class meeting.
- Read the assigned material in the text.
- Begin the next homework assignment.

It is your responsibility to master the objectives of the course. Resources available to you include the instructor, the class assistants, your fellow students, the course Blackboard site, the library, on-line course resources, and Supplemental Instruction.

**GRADING**

The final course grade will be determined by the scores on

- 3 Common Midterms (Dates: 2/9, 3/9, 4/13) weighted 15% each (45% total)
- Daily Grade (average of group Learning Activities, additional HW, quizzes, etc. as determined by individual instructors) weighted 15%
- Department Homework (MML problems and required JIT problems) weighted 15%
- Common Final Exam (Date: 5/2) weighted 25%

The final exam for this course will be held **Monday, May 2, 11:30-2**. The final exam is cumulative. Students who take all three regular semester exams and have a 90% or better average on the three regular semester exams are **EXEMPT** from the final exam and will receive a final course grade of “PASS”. (The average is computed as \( \frac{T_1 + T_2 + T_3}{3} \) where \( T_1, T_2, T_3 \) are the grades on the three regular semester exams.) Students with below a 90% average on the three regular semester exams, or who missed one of the regular semester exams, are required to take the final exam. **No rescheduling of the final exam will be permitted.**

In order for a final course average to be calculated, a student must have either:
(a) a final exam score of 64% or higher, or
(b) a weighted average test and final exam score of 64% or higher where the weighted average is computed as

\[
\frac{15(T_1 + T_2 + T_3 + FE - \min(T_1, T_2, T_3, FE)) + 25 \cdot FE}{3 \cdot 15 + 25}
\]

where \( T_1, T_2, T_3 \) are the grades on the three regular semester exams and \( FE \) is the grade on the final exam. This formula has the effect of replacing the lowest test score with the final exam score if this improves the weighted average.

**If neither of the conditions (a) and (b) above is met, the final course grade is F and the following computation of course average is irrelevant to the final grade.**
If either of the conditions (a) and (b) above is met, the final course average is computed as

\[
\frac{15(DG + DH + T_1 + T_2 + T_3 + FE - \min(T_1, T_2, T_3, FE)) + 25 \times FE}{100}
\]

where DG is the percentage score on the Daily Grade, DH is the percentage score on the Departmental Homework, and the other variables are as previously defined. Again, this formula has the effect of substituting the final exam score for a single lower test score if that improves the course average.

If either of the conditions (a) and (b) above are met, the final letter grade is determined from the course average according to the grading scale:

- 70% or higher: Pass; otherwise,
- less than 70%: Fail.

**TESTS**

There will be 3 common tests during the semester. All of the tests will take place in the evening (6:45 – 8:15 PM) on designated Wednesdays (2/9, 3/9, 4/13). The final exam (11:30 – 2 on 5/2) is comprehensive. You have 1 week after graded exams are distributed in class to submit a test for regrading or to dispute your score.

Students will not be permitted to use laptop computers, calculators, cellphones, or other technology on any test or the final exam. The use of a textbook and/or notes is prohibited on all MthSc103 tests and final exams.

An absence from a test or exam will result in a grade of zero. If you miss an test or exam due to an emergency that would qualify as an excused absence, you must inform your instructor within 24 hours of the scheduled test or exam.

**ATTENDANCE**

You are expected to be regular and punctual in your class attendance. You are responsible for all notes, assignments, and announcements made in class. Students who have more than 5 absences (excused or unexcused) are subject to being dropped from the course. You must provide your instructor with proper documentation for university sanctioned absences. If the instructor does not arrive in the classroom within 15 minutes after the scheduled start time, class is dismissed for the day.

**DEPARTMENT HOMEWORK**

Each student will work online homework associated with the Calculus text (including a Getting Ready for Calculus section which is only available in online HW) through the web portal, MyMathLab. MyMathLab installation help is available at the website:
http://www.mymathlab.com/contactus_stu.html. You will receive an installation packet with your textbook bundle. Keep this packet! It contains your registration code. You will be given a course ID by your instructor for you to use when registering. Wait until the Monday after classes begin to register for MyMathLab. If you have difficulties using your laptop and MyMathLab, you may use a lab computer to complete your homework.

MyMathLab contains a calendar which will show you when each online homework assignment is due. You should check this calendar often for updates. Your instructor may decide to have you complete online reading quizzes before class or additional homework assignments. These will be listed on the calendar, as well.

MyMathLab contains your entire text, instructional videos, study plan help, as well as practice tests for each chapter. Take the time to learn to use the system, paying attention to the amount of study material which is available for you.

When working online homework, be sure to follow instructions exactly for entering the answer. It is recommended that you print your online homework so that you have a copy for studying later. Each problem in an online homework set is worth one point.

In addition to the online homework assignments there are required assignments from the Just-in-Time textbook. These assignments can be found on the skill set documents. Each problem in a required Just-in-Time homework set is worth one point. Partial credit may be awarded at the discretion of the instructor.

The department homework average will come from the online homework points added to the Just-in-Time homework points and divided by the total number of points. Some number of homework points will be dropped at the end of the semester. The number to be dropped will be determined before the end of the semester.

It should be noted that due to the nature of the assignments your department homework average and learning activity average may not be predictors for your test grades, but are a very important parts of your learning process.

Students are expected to adhere to the MyMathLab User Agreement. You may not sell or give your MyMathLab code to another student. The following is an excerpt from that agreement.

"3.3. College/University Student/Individual Subscriptions The license granted herein is for single user access to resources developed for students to use in conjunction with course assignments and for self-study and self-assessment purposes. One Login Name and Password with student authority is issued for each individual subscriber's use; this Login Name/Password may not be shared with other students or otherwise disclosed to unauthorized third parties."

**DAILY GRADE**

The Daily Grade portion of the grade may include traditional individual quizzes, solving problems to be turned in, additional homework problems, projects, reading quizzes, or
worksheets. The majority of these activities will be graded. Some amount of low scores will be dropped as determined by the instructor.

**PORTFOLIO**

This course meets the Mathematical, Scientific, and Technological Literacy general education requirements. You should put copies of your activities and tests for this course in your general education portfolio. Please put the following documents in the indicated sections of your portfolio.

Mathematical, Scientific, and Technological Literacy

Section 1--Demonstrate mathematical literacy through solving problems, communicating concepts, reasoning mathematically, and applying mathematical or statistical methods using multiple representations

Test 1, Test 2, and any activities you choose (You may want to choose a particularly challenging or complex activity.)

**ACCOMMODATIONS**

If you have a letter stating specific testing accommodations to which you are entitled, please turn in a copy to your instructor at least one week prior to the test or final exam.

**FINAL EXAM**

Monday, May 2, 11:30 am - 2:00 pm