COURSE DESCRIPTION:
Topics in this course include limits, differentiation and integration of algebraic, exponential and logarithmic functions, integration techniques and related applications in the management, business, and social sciences. This course is not designed for science majors. Course performance standards are available at http://www.scf.edu/academ/math/math.htm and in the Math Labs.

PREREQUISITES:
MAC 1105 with a grade of “C” or better or equivalent. This course is not the prerequisite to MAC 2311 Calculus with Analytic Geometry. Please see http://www.scf.edu/pages/1160.asp for all mathematics course prerequisites. Students already with credit for MAC 2311 cannot subsequently get credit for this course. Student Enrollment in any mathematics course is contingent upon approval of the mathematics department. This means that students who have been misplaced may have their schedule changed.

REQUIRED COURSE MATERIALS:

CALCULATOR:
A graphing calculator is required; a TI-83, TI-83 Plus, TI-84 Plus, or TI-86 is strongly recommended. Calculators can be used during exams with the exception of those calculators with symbolic manipulation capabilities (e.g., TI-89, TI-92). Cell phones cannot be used as calculators during exams.

ADDITIONAL MATERIALS:
Your online section requires all students to use supplemental software called, MyMathLab (MML). You are required to buy the MML software either at the college bookstore or online at www.CourseCompass.com. It must be purchased and you must be registered by the end of the first week of classes. If not you will be dropped from the courses as no show. Your homework assignments will be completed in MML.

EXAMINATIONS:
There will be 4 Unit Tests and a required cumulative final exam. NO MAKE-UP EXAMS WILL BE GIVEN. The Units Tests are on 2/9, 3/8, 3/29 and 4/27. The final exam is on 5/3. All Unit Tests and the final exams are on Thursdays at 3:30 pm in room 27-132.

GRADING:
Your grade in the course is determined by the percentage of points earned during the semester. A grade of 60% or better must be earned on the final exam in order to pass the course.

<table>
<thead>
<tr>
<th>POINTS</th>
<th>SCALE</th>
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</thead>
<tbody>
<tr>
<td>400</td>
<td>90 - 100% = A</td>
</tr>
<tr>
<td>200</td>
<td>80 - 89% = B</td>
</tr>
<tr>
<td>200</td>
<td>70 - 79% = C</td>
</tr>
<tr>
<td>800</td>
<td>60 - 69% = D</td>
</tr>
<tr>
<td></td>
<td>0 - 59% = F</td>
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GORDON RULE:
This course meets the Florida State Board of Education Rule Number 6A-10.30. For the purpose of this rule, a grade of “C” or better shall be considered successful completion.

WITHDRAWAL:
In accordance with the State College of Florida policy, as stated in the college catalog, students may withdraw from any course, or all courses, without academic penalty, by the withdrawal deadline listed in the State College of Florida academic calendar. This semester, the withdrawal date is March 22, 2012. Students should take responsibility to initiate the withdrawal procedure but are strongly encouraged to talk with their instructors before taking any withdrawal action. In addition, students should note that faculty may also withdraw students for violating policies, procedures or conditions of the class, as outlined in individual class syllabi, and such action could affect financial aid eligibility.
CELL PHONE POLICY: Cell phone etiquette must be observed: In-class usage is restricted to emergency situations. Cell phones are not allowed to be used during tests, not even as a calculator. Inform the instructor before class of any extenuating circumstances. Electronic devices as iPods, Blackberries, etc. are not permitted to be used or worn in class.

MISCONDUCT: Students are required to adhere to statements regarding student misconduct outlined in official State College of Florida publications including the Catalog and the Student Handbook. The minimal consequence of failure to adhere to these statements is withdrawal from the course.

ANGEL ACCESS: You are already enrolled in the ANGEL account for this course. You can access ANGEL through SCF Connect (https://portal.scf.edu/cp/home/displaylogin) using your regular User ID and Password. This Syllabus will be posted in ANGEL, and detailed instructions for enrolling in Enhanced WebAssign will be posted in ANGEL under the “Lessons” tab. However, ANGEL will not be used during the rest of the semester as all assignments are located in Enhanced WebAssign. Students should not contact the instructor through ANGEL - instead, send e-mails to muhunda@scf.edu

E-MAIL: You must use your SCF e-mail account and check your e-mail regularly (at least four times a week is recommended). You can expect to receive weekly e-mails from me with pertinent course information such as assignment updates, study tips, and course instructions. It is your responsibility to make sure you receive these e-mails - if you do not appear to be receiving e-mails, contact your instructor immediately. All e-mail replies must be sent from your SCF e-mail address. They must be written using correct English structure, grammar and punctuation and be signed with your first and last name. Additionally, the course name, MAC 2312 - Online, should be included on the subject line of the e-mail. Please do not e-mail your instructor through ANGEL. Students can typically expect to receive a reply within 24 hours, M-F.

COURSE FORMAT: This is an online course requiring submission of online homework and quizzes. It is NOT self-paced. You will be learning through the use of the textbook, course notes, and Enhanced WebAssign. You will work outside class to complete the course material as outlined in the attached schedule and come to the campus (or a pre-approved testing center) to take traditional pencil and paper exams. The instructor will interact with students throughout the course and assess all assignments.

TESTING You must bring an approved graphing calculator, pencils, and your student ID card and driver’s license. Students cannot share calculators or use a cell phone as a calculator during exams!

For students with time/location conflicts: Any deviations from the testing dates, times and location must be approved from your instructor in advance. If you are not able to attend the on-site testing sessions, you must make an appointment with the SCF Testing Center, http://www.scf.edu/StudentServices/StudentDevelopment/AssessmentTestingCenter/default.asp, or find an approved testing center. Contact your instructor with the necessary information for sending the test to the testing center at least one week prior to the exam. Please be aware that most independent testing centers will charge for proctoring services. Regardless of location, you must still take the exam on the same date as the rest of the class.

REQUIRED INITIAL ASSIGNMENT: To be a student in this course, you must complete all parts of the assignment by Tuesday, January 17, 11:59 pm. To complete this assignment, students must:

1. Complete the “Orientation Assignment” in MyMathLab.
   - Follow the “Enrolling in WebAssign” instructions.
   - Download any required plug-ins for MyMathLab.
   - Click on Notifications in the top right and check all options under “Notify me immediately when…”
   - Complete the Orientation Assignment under either “My Assignments” or “Current Assignments.”

2. Write an “Introduction Post” under Class Forums in MML.
   - On the right-hand side in MML, click on “Class Introductions” under Class Forums.
   - Read the Instructions and the Example Post, and then create your own post in the “Class Introductions” forum.

3. Send an e-mail to your instructor at muhunda@scf.edu from your SCF e-mail address.
   - You can either reply to an e-mail, or send a brand new one. Make sure that you include your first and last name in the body of the e-mail.
Students who fail to complete all parts of the Required Initial Assignment by the due date will be marked as a no-show and dropped from the course.

In accordance with US Department of Education guidance regarding class participation, The State College of Florida requires that all students complete an orientation and submit their required Week 1 assignments within each course(s) during the first 8 calendar days of class. The first calendar day of class is the official start date of the course as posted on the course syllabus. Assignments submitted prior to the official start date will not count toward your participation. **Financial Aid cannot be released without class participation as defined above.** Students who have already taken, and successfully completed, at least one or more class(es) with The State College of Florida will be dropped **ONLY** from any class(es) in which they are **not participating**. If you have any questions about your assignments, or you are unable to complete your assignments, please contact your instructor at muhunda@scf.edu.

To be a student in this course, you must complete the Orientation Assignment.

The software must be purchased and you must be registered in WebAssign by the eighth day of the semester. If you are not registered and active in WebAssign by the eighth day of the semester you will be dropped from the course as a no-show. Students who fail to complete the assignment by the due date will be marked as a no-show and dropped from the course.

**LESSON PROCEDURES:** Weekly assignments will typically be due each Monday at 11:59 pm EST, unless otherwise specified. Every week, sections are assigned according to the Syllabus calendar. For each assigned section:

1. Read the section in the Textbook.
2. Watch the Lecture Videos for the section in MML(under “Resources” in bottom left-hand corner of page).
3. Go through the section exercises in the Course Notes paper, and check the Answers posted under “Resources” in MML.
4. Complete the Homework in MML (under “My Assignments” in Toolbar at the top or in the box to the left). Homework assignments will count toward your course grade. Remember to utilize any Help buttons when you run into a difficult homework problem.

**HOMEWORK:** Doing homework is a critical part of learning mathematics. Assignments are provided through the MML software. The online homework will have impact on your course grade. Assignments will typically be due each Monday at 11:59 pm, unless otherwise noted. Online homework is required and counts for 200 points toward your course grade.

- Students often find it helpful to print the homework assignments, work out problems using pencil and paper, and then enter the answers in MML. This gets students into the habit of showing work on paper, to prepare them for proctored tests.
- The Optional Textbook Exercises listed below on the calendar also provide you with the opportunity to work problems away from the computer, which helps you to prepare for the paper and pencil exams. These will not be handed in for a grade, and it is up to you to decide how much extra practice you need.
- You are allowed 4 submissions for each homework problem. Click on the yellow Help buttons if you are struggling with a problem. Click on “Practice Another Version” to submit answers to a similar problem without counting against your 4 submissions. If you are still stuck, click “Ask Your Teacher” and include a specific question (include the question number, and work you have tried so far).

There will be a MML homework assignment due for every textbook section covered. In addition, on the Friday before every Quiz and Test date, students must post their work and answers for selected textbook problems in the appropriate Forum in MML. The due dates are listed in the Syllabus calendar as “Forum: mm/dd.” A new Forum will be created for each unit, and instructions along with a list of textbook problems will be posted there. Each Forum post will be counted as one Homework assignment.

**ATTENDANCE:** Students are required to attend the orientation on 1/12/12 (Thursday) at 3:30 pm in room 27-132. All late arrivals, early departures and absences must be discussed and cleared with the instructor.

Since this is an online course, attendance will be measured by completion of MML assignments as well as sitting for tests.
• During the first week of class, student attendance will be measured by completion of all parts of the Required Initial Assignment (described above).
• After the first week, students must display weekly activity in MML (i.e., complete homework problems every week) and sit for all tests. Students who are inactive for two weeks are subject to withdrawal from the course.

ACCOMMODATION SERVICES:

State College of Florida, Manatee-Sarasota, in accordance with the Americans with Disabilities Act, will provide classroom and academic accommodations to students with documented disabilities. If you need to request an accommodation in this class due to a disability, or you suspect that your academic performance is affected by a disability, please see your instructor or contact the Disability Resource Center (DRC). The DRC is located in 300-326 on the Venice campus and in the Student Services Center (01-219) on the Bradenton campus. The phone number is 941-408-1448 x61448 (TTY 941-480-3420) on the Venice campus and 941-752-5295 x65295 (TTY 941-751-8179) on the Bradenton campus.
<table>
<thead>
<tr>
<th>Week</th>
<th>Sections Covered</th>
<th>Topics Covered</th>
<th>Suggested Homework Assignments</th>
</tr>
</thead>
</table>
| 1    | Orientation      | Orientation: 1/12/12 (Thursday) at 3:30 pm in room 27-132  
Chapter R  
| 2    | M 1/16 – F 1/20  
M 1/16-MLR Holiday-  
College Closed | Limits: A Numerical and Graphical Approach  
Algebraic Limits and Continuity | MML Homework for 1.1 – 1.2 |
| 3    | M 1/23 – F 1/27  
1.1  
1.2  
1.3  
1.4  
1.5  
1.6  
1.7  
1.8 | Average Rates of Change  
Differentiation Using Limits of Difference Quotients  
Differentiation Techniques: The Power and Sum-Difference Rules  
Differentiation Techniques: The Product and Quotient Rules  
The Chain Rule  
Higher-Order Derivatives | MML Homework for 1.3 – 1.5 |
| 4    | M 1/30 – F 2/3  
2.1  
2.2  
2.3  
2.4  
2.5  
2.6  
2.7 | Using 1st Derivatives to Find Max/Min Values and Sketch Graphs  
Using 2nd Derivatives to Find Max/Min Values and Sketch Graphs  
Graph Sketching: Asymptotes and Rational Functions  
Using Derivatives to Find Absolute Max/Min Values Max/Min Problems: Business and Economics Applications  
Marginals and Differentials | MML Homework for 2.1 – 2.3 |
| 5    | M 2/6 – F 2/10  
Test 1 | Test 1: 2/9/12 (Thursday) at 3:30 pm in 27-132 | MML Homework for 2.4 – 2.6 |
| 6    | M 2/13 – F 2/17  
2.1  
2.2  
2.3 | Using 1st Derivatives to Find Max/Min Values and Sketch Graphs  
Graph Sketching: Asymptotes and Rational Functions | MML Homework for 2.7 |
| 7    | M 2/20 – F 2/24  
2.4  
2.5  
2.6 | Using 1st Derivatives to Find Max/Min Values and Sketch Graphs  
Graph Sketching: Asymptotes and Rational Functions | MML Homework for 2.1 – 2.3 |
| 8    | M 2/27 – F 3/2  
*F 3/2 – Faculty Development Day | Implicit Differentiation and Related Rates | MML Homework for 2.4 – 2.6 |
| 9    | M 3/5 – F 3/9  
Test 2 | Test 2: 3/8/12 (Thursday) at 3:30 pm in 27-132 | MML Homework for 2.7 |
| 10   | M 3/12 – F 3/16  
Spring Break  
College Closed | 3.1  
3.2  
3.3  
3.4  
3.6 | Exponential Functions  
Logarithmic Functions  
Applications: Uninhibited and Limited Growth Models  
Applications: Decay  
An Economics Application: Elasticity of Demand | MML Homework for 3.1 – 3.3 |
| 11   | M 3/19 – F 3/23  
**3/22 – Last Day to Withdraw | 4.1  
4.2  
4.3  
4.4  
4.5 | Antidifferentiation  
Antiderivatives as Areas  
Area and Definite Integrals  
Properties of Definite Integrals  
Integration Techniques: Substitution | MML Homework for 4.1 – 4.3 |
| 12   | M 3/26 – F 3/30 | Test 3: 3/29/12 (Thursday) at 3:30 pm in 27-132 | MML Homework for 4.4 – 4.5 |
| 13   | M 4/2 – F 4/6 | Test 3 | MML Homework for 4.4 – 4.5 |
| 14   | M 4/9 – F 4/13 | Test 4: 4/26/12 (Thursday) at 3:30 pm in 27-132 | MML Homework for 4.4 – 4.5 |
| 15   | M 4/16 – F 4/20 | Test 4 | Test 4: 4/26/12 (Thursday) at 3:30 pm in 27-132 |
| 16   | M 4/23 – F 4/27  
4/27 – Classes End | Final Exam  
Thursday 5/3/2012  
3:30 – 5:30 pm | Final Grades Due at 2:00 p.m. For All Spring Classes |
| 17   | M 4/30 – R 5/3 | Final Exam  
Thursday 5/3/2012  
3:30 – 5:30 pm | Final Grades Due at 2:00 p.m. For All Spring Classes |

*Friday, 3/2, Faculty/Staff Development Day - no day classes or academic support labs. Classes scheduled 4:00 p.m. and later will meet as usual.  
**Thurs., 3/22, is the last day to withdraw with a “W.”