DEPARTMENT OF MATHEMATICS  
STUDENT SYLLABUS  
MAC 2233, Sections 34-41 (Lecture TR: 3:35-4:50 pm in 2100-HWC ; Labs Monday in 319 HCB)  
Spring 2016

INSTRUCTOR: Mr. I. GRIGORIAN  
INSTRUCTOR'S HOME PAGE: http://www.math.fsu.edu/~grigor (then click on MAC 2233 for Bus. Calc. page)  
E MAIL ADDRESS: grigorian@math.fsu.edu  
OFFICE: 108-D MCH  
OFFICE HOURS: MW: 1-2 pm ; TR: 2-3 pm ; or by appointment

ELIGIBILITY You will be deemed eligible for this course if (1) you have credit for MAC 1105 (or an equivalent course in College Algebra) with a grade of C- or better, or (2) you have scored in AMP Group A3 or higher after January 1999, or (3) you scored 600 or higher on the quantitative SAT test or 26 or higher on the math ACT test. Students who have credit for a higher-level math course cannot receive credit for MAC 2233. It is the student's responsibility to check and prove eligibility. Ineligible students will not be allowed to take this course. Advisement assistance is available in 222 LOV.

ALEKS PLACEMENT EXAM REQUIREMENT If this is your first FSU math course with the prefix MAC and you are a FTIC (First Time In College) student who entered Summer 15 or later, then you are required to take ALEKS. A progressive penalty will be applied to the first exam grade in this course if the ALEKS placement exam is not completed before 11:59 p.m. on the first day of classes, January 6, 2016. The grade penalty will increase if ALEKS is not completed within 48 hours after the first deadline and again 48 hours after the second deadline. The penalties are as follows: 1st penalty = 5pts out of 100 off Test 1 grade; 2nd penalty = 7.5pts off (total) Test 1 grade; 3rd penalty = 10pts off (total) Test 1 grade.

For scores or any additional information, please go to http://www.math.fsu.edu/~bellenot/ALEKS/

ATTENDANCE: Students whose names do not appear on the class roll cannot attend classes. Attendance is mandatory, students are expected to attend classes (please read PARTICIPATION REQUIREMENT)

TEXT Calculus for Business, Life Sciences and Social Sciences, Barnett/Ziegler/Byleen; PH

CALCULATOR POLICY Calculators may not be used on any tests/quizzes. Any person using an unauthorized calculator on a test/quiz will be given a grade of zero on the test/quiz. A graphing calculator is recommended for checking homework problems.

COURSE OBJECTIVES This course is intended to introduce students to calculus concepts that are prerequisites for some advanced topics in business, economics, and social sciences. This course covers limits, continuity, first and higher derivatives, and the differential, with applications to graphing, rates of change, and optimization methods; techniques of integration and applications; introduction to multivariate calculus.

LIBERAL STUDIES FOR THE 21st CENTURY: The Liberal Studies for the 21st Century Program at Florida State University builds an educational foundation that will enable FSU graduates to thrive both intellectually and materially and to support themselves, their families, and their communities through a broad and critical engagement with the world in which they live and work. Liberal Studies thus offers a transformative experience. This course has been approved for the Liberal Studies disciplinary requirements and thus is designed to help you become a critical analyzer of quantitative and logical claims.

In order to fulfill the State of Florida's College mathematics and computation requirement the student must earn a "C" or better in the course.

LIBERAL STUDIES FOR THE 21ST CENTURY COMPETENCIES: Students will demonstrate the ability to:
Analyze problems drawn from real-world scenarios by interpreting and evaluating data and applying appropriate mathematical, statistical, logical, and/or computational models or principles, using appropriate technology, and explaining the results.

These competencies will be evaluated throughout the term on each of the three Unit Tests and the Final Exam.
INTERNET ADDRESSES:
http://www.math.fsu.edu/~basicmath (useful information)
http://einstein.math.fsu.edu:9233 (practice tests)

COURSE CONTENT
Unit I: 3.1-3.7,4.1
Unit II: 4.2-4.5; 5.1-5.3; 6.1
Unit III: 6.2; 6.5; 7.1-7.2; 8.1-8.2
Unit IV: 8.3, 8.6

TEST #1: Monday, February 15 (Unit I)
TEST #2: Monday, March 21 (Unit II)
TEST #3: Monday, April 18 (Unit III)

PLEASE NOTE (VERY IMPORTANT):

1- YOU MUST KNOW YOUR SECTION NUMBER (CHECK YOUR SCHEDULE)
2- YOU MUST ATTEND THE LECTURE YOU REGISTERED FOR
3- YOU MUST ATTEND THE COMPUTER LAB YOU REGISTERED FOR.
4- YOU MUST TAKE THE QUIZ/TEST WITH YOUR SECTION ONLY.
5- ALL THE UNIT TESTS WILL BE GIVEN IN COMPUTER LAB.
6- Please check your typing carefully and carefully follow the instructions when practicing free response questions. We are not responsible for any typo mistake you might make on the free response questions.
7- Cell phones, ipods, and any similar devices are NOT ALLOWED in lecture and Labs
8- STUDENTS MUST BRING FSU ID CARDS TO ALL TESTS/QUIZZES

COMPREHENSIVE FINAL EXAM: The Final Exam is cumulative (covering Unit I - IV). Your Final Exam might not be scheduled in your recitation classroom, but will be given in one of the four computer equipped classrooms in HTL (104, 105, 113, 114) or in 107 MCH or in 319 HCB. The Final Exam will be given M-R of Exam Week (April 25 – 28). You will register on-line for a final exam time. Exam Registration will open at 7 a.m. on Wed. March 23. You must schedule an exam time before 12:00 noon on Wed. April 13. During this period, you will be able to change your exam time, depending on available times. You must check your exam schedule carefully. After final exam registration closes, changes, without penalty, will be made only for conflicts that involve documented changes in the exam schedule for your other classes. That is, changes will be made only if an instructor in one of your classes changes the time of the final exam from the Exam Schedule given in the University's Registration Guide Spring 2016 and this change conflicts with your selected MAC2233 exam time. A penalty, of 10 points will be imposed on your Final Exam grade for any other changes made after registration closes. This includes students who fail to register before the deadline, changes in travel, or because of airline ticket purchases. The link for the on-line registration will be on my home page at http://www.math.fsu.edu/~grigor (then click on MAC 2233 page)

Special Note for DSS Students: Students who are registered with DSS and are allowed extra time for tests, may not register for the last exam time on any day – we can not accommodate extra time in the last exam period each day

IMPORTANT: YOU NEED TO USE YOUR EMPLID NUMBER (9 digit number) TO REGISTER FOR THE FINAL EXAM TIME. Also, you need to use EMPLID number to take test/quiz on e grade.

To obtain EMPLID NUMBER: (login to blackboard, then click on Secure Apps, then click on FSUID Identity Management)

HOMEWORK PROBLEMS Working homework problems should help students understand the course material and prepare for tests.
Practice tests are available over the Internet at the following URL: http://einstein.math.fsu.edu:9233. Attending lecture (and taking good notes) and working on-line practice problems are very important. **Please, always try to print a copy of the practice quiz/test as soon as it is available on line.**

**TEST/QUIZ POLICIES:** No makeup tests or early tests or quizzes will be given. A test or quiz absence will only be excused if the student presents sufficient verifiable evidence of acceptable, extenuating, unavoidable circumstances. An acceptable medical excuse must state explicitly that the holder should be excused from class. Students missing class because of a family death must show evidence of the death and evidence of the relationship to the deceased. Students will not be given excused absence to attend family functions or non-university activities. **NOTE: car trouble, appointments of any kind, and “family emergencies” are not considered excused.**

**VERY IMPORTANT:**

**PARTICIPATION REQUIREMENT:** This course has a participation requirement measured by attending lecture and lab assignment completion.

Students are in danger of failing the course if they miss more than 2 quizzes (lab, lecture quizzes which includes attendance and take home quizzes; excused or not). **Your final course average will be reduced by 1 point for each additional quiz missed beyond 2. No exceptions.** (Even if a student has an excuse for a missed lab quiz or a lecture quiz which includes attendance and take home quizzes that still counts as a missed quiz.)

The Final Exam grade may be used to replace ONLY ONE missed unit test. For an excused, verifiable absence, the final exam grade (which is comprehensive) replaces the missed unit test grade. **For an unexcused absence, the Final Exam grade minus a penalty will replace the missed unit test.** If you miss two unit tests for any reason (excused or unexcused), then you need to drop the course. **The Final exam grade can not substitute for two unit tests.** If you miss ONE quiz for an excused, verifiable reason, then no grade will be assigned to the missed quiz (i.e. it will not count in your quiz average). For subsequent quiz absences (excused only), the student must see the instructor. A grade of *zero* will be assigned for an unexcused quiz grade. **NOTE: car trouble, appointments of any kind, and “family emergencies” are not considered excused.**

**IMPORTANT NOTE:** The student must stop by my office with the original documentation for any excuse within one week of the student’s return.

(Please note: I don’t accept any documentation for any excuse in lecture, lab class or by e mail)
**GRADING:** There will be three unit tests, a cumulative final examination, and several short quizzes (some short quizzes and attendance quizzes may be given in lecture without notice). No quiz or test grades will be dropped.

Numerical course grades will be determined by the larger of $\text{Av}_1$ and $\text{Av}_2$
where $\text{Av}_1 = \frac{(6U+Q+3E)}{10}$, $\text{Av}_2 = \frac{(4U+Q+5E)}{10}$
$U =$ weighted test average $= \frac{(3T_1+4T_2+5T_3)}{12}$, $Q =$ quiz average, $E =$ final exam grade.

Letter grades will be determined from numerical grades as follows:

- **A** = 92.50 or above
- **B+** = 87.50 - 89.49
- **C+** = 77.50 - 79.49
- **D** = 62.50 - 69.49
- **A−** = 89.50 - 92.49
- **B** = 82.50 - 87.49
- **C** = 72.50 - 77.49
- **D−** = 59.50 - 62.49
- **B−** = 79.50 - 82.49
- **C−** = 69.50 - 72.49
- **F** = below 59.50

**FREE TUTORING FROM FSU:** For tutoring and writing help in any course at Florida State University, visit the Academic Center for Excellence (ACE) Tutoring Services’ comprehensive list of tutoring options - see [http://ace.fsu.edu/tutoring](http://ace.fsu.edu/tutoring) or contact tutor@fsu.edu for more information. High-quality tutoring is available by appointment and on a walk-in basis. These services are offered by tutors trained to encourage the highest level of individual academic success, while upholding personal academic integrity. Students should use caution when engaging the services of tutors (or tutoring services) that have no affiliation with FSU. If a tutoring service provides information or materials that violate the Academic Honor Policy, then you, by engaging that service, will be in violation of the Academic Honor Policy. If you provide test details to any individual or tutoring service, then you are in violation of the Academic Honor Policy. You will be asked to give an honor pledge for every graded assignment; please take it seriously.

**ACADEMIC DISHONESTY:** The Florida State University Academic Honor Policy outlines the University’s expectations for the integrity of students’ academic work, the procedures for resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty members throughout the process. Students are responsible for reading the Academic Honor Policy and for living up to their pledge to “…be honest and truthful and…[to] strive for personal and institutional integrity at Florida State University.” (Florida State University Academic Honor Policy, found at [http://dof.fsu.edu/honorpolicy.htm](http://dof.fsu.edu/honorpolicy.htm).)

The academic honor system is followed strictly. Students possessing unauthorized notes, using prohibited calculators, or giving/receiving unauthorized assistance on an exam will be dealt with according to FSU Honor Code policy.

**AMERICAN DISABILITIES ACT:** Within the first week of classes, students with disabilities needing academic accommodations should: 1) register with and provide documentation to the Student Disability Resource Center (SDRC); and 2) bring a letter to their instructor from SDRC indicating the need for accommodation and what type.

Each student must meet with his/her lecturer to discuss his/her particular situation and the available testing options. Accommodations will be provided within one week of that meeting.

The eGrade software used in this course is not fully accessible for students with visual impairments. Visually impaired students are referred to the SDRC for interim accommodations.

This departmental syllabus and instructor written class materials can be made available in alternative format upon request. For more information about services available to FSU students with disabilities, contact the: Student Disability Resource Center, 874 Traditions Way, 108 Student Services Building, Florida State University, Tallahassee, FL 32306-4167 (850) 644-9566 (voice) (850) 644-8504 (TDD) sdrc@admin.fsu.edu [http://www.disabilitycenter.fsu.edu/](http://www.disabilitycenter.fsu.edu/)

**Syllabus Change Policy** "Except for changes that substantially affect implementation of the evaluation (grading) statement, this syllabus is a guide for the course and is subject to change with advance notice.”