Summer 2014 Session I Math 151 Syllabus Calculus I

Instructor: Zois Boukouvalas
E-mail: zb1@umbc.edu
Time: MTuTh 6:00 – 8:05 p.m. in MP 101
Office: MP 201 **Phone:** 410-455-2412(Math. Office)
Office hours: M 5:00-6:00 p.m and Th 5:00 – 6: 00 p.m, or by appointment.
Discussions: MP 104 MTh – 8:15 – 9:15 p.m.
TA: Hyekyung Park (xv21411@umbc.edu)

Pre-requisite: Math 150.

Text: CALCULUS. Early Transcendentals, by James Stewart, 7th Edition Thomson/Brooks.Cole Publishing, 2012. (Or newer edition)

Homework: HW problems will be done online in a program called WEBASSIGN. You will have to buy an access code (either online or in the bookstore) for WEBASSIGN. Also, there are additional HW problems given from the textbook for extra help. The students are required to work out the problems assigned and ask the TA (during the discussion session) for help if needed. Please work out the problems on a paper and then enter the answers on the computer.

Quizzes: **Quiz 0** is **mandatory**. You should take quiz zero during the first discussion **(05/29/2014)** at **8:15pm-9:15pm** in the **ENG 122/122A, ENG 104/104A**.

There will be **5 quizzes** worth 50 points each and will be administered during the discussion session. **NO MAKE UP QUIZ. Zero points will be given to a missed quiz. The one lowest quiz score will be dropped.**

Exams: There will be **1 exam (not including the Final Exam)**.

Attendance: Students are expected to attend every class. The students are responsible for any material covered, announcements made in the class, and changes in the schedule regardless of their attendance.

Make-up Policy: A make up test will be given only when documented evidence of an emergency situation that caused you to miss the test is provided. **THE STUDENT HAS TO NOTIFY THE TEACHER PRIOR TO THE TIME OF THE TEST IF HE OR SHE IS GOING TO MISS THE TEST.** Make up test will be different from the original test.

GRADING:	4 quizzes worth 50 points each		200 points	
	HW (WEBASSIGN)		100 points	
	1 exam		100 points	
	Final Exam		200 points	
	Total		**600 points**	
	90% and above	**A**	**80% - 89%**	**B**
	70% - 79%	**C**	**60% - 69%**	**D**
	59% and below	**F**		

ACADEMIC HONESTY: By enrolling in this course, each student is responsible for taking active part in the class discussions and follows the highest standards of honesty. Cheating, plagiarism and helping others to commit these acts are all forms of Academic dishonesty. These misconducts could result in disciplinary action. Please refer to the Student Handbook regarding Academic Conduct Policy. If a person is caught taking part in any of the above mentioned acts during a quiz or test, zero points will be awarded for that quiz or test.

NOTE: NO CALCULATORS ALLOWED IN THIS COURSE. PLEASE BRING ID TO ALL QUIZZES AND EXAMS.

Learning Goals: The learning plan divides activities in three parts -- before, during, and after class --, which apply to every covered section of the textbook:

- Before class:
  - Study the section in the textbook, and taking into account any announcements in class, in blackboard, or by e-mail specifically for this section. .

  Before you arrive in class, you should have an overview of the material in the section, have read and/or seen several examples for its use, and be ready to attempt the homework problems under the guidance of the instructor.

- During class:
  - Follow the lecture which highlights the material and puts it into context.
  - Participate actively in class and try to work out problems at the end of class.

  By the end of class, you should have obtained answers to your questions and have an idea of how to approach the homework.

- After class:
  - Work all assigned homework problems. It may be helpful to re-view some of the worked examples in class at this point.
  - If questions arise, review the textbook, notes from class, and examples in textbook

With the shift of work towards preparing more intensively for class as opposed to seeing material for the first time in class, the activities after class should consist mainly of putting all the pieces together. Moreover, the tightly spaced and integrated work before, during, and after class should make the preparation for the tests short and effective.

PROJECTED SCHEDULE

DATE		SECTIONS COVERED	QUIZZES OR EXAMS
Tu	05/27	Review of Algebra	
Th	05/29	2.1 Tangents and Velocities 2.2 Limits of functions	**Quiz 0 (8:15-9:15pm)** **ENG 122/122A, ENG 104/104A**
M	06/02	2.3 Limits 2.4 Precise Definition of Limit	**Quiz 1 on 2.1-2.2**
Tu	06/03	2.4 again & 2.5 Continuity	
Th	06/05	2.6 Limits at Infinity 2.7 Derivatives as rate of change	
M	06/9	2.8 Derivatives as functions	**Quiz 2 on 2.3-2.7**
Tu	06/10	3.1 Derivative of Polynomials 3.2 Product and Quotient Rules 3.3 Derivatives of Trig functions	
Th	06/12	3.4 The Chain Rule 3.5 Implicit Differentiation	

M	06/16	**EXAM I**	**2.1-3.5**
Tu	06/17	3.6 Log Differentiation 3.9 Related Rates	
Th	06/19	3.10 Linear Approximations 3.11 Hyperbolic Functions	
M	06/23	4.1 Max and Min 4.2 The Mean Value Theorem	**Quiz 3 on 3.6-3.11**
Tu	06/24	4.3 Derivatives and Graphs & 4.4 L'Hospital's Rule 4.5 Curve Sketching	
Th	06/26	4.7 Optimization 4.8 Newton's Method	
M	07/30	4.9 Antiderivatives 5.2 The definite integral	**Quiz 4 4.1-4.8**
Tu	07/1	5.3 The Fundamental Theorem of Calculus 5.4 Indefinite Integrals 5.5 Substitution	**Quiz 5** **Take Home!** **4.9-5.5**
Th	07/03	**FINAL EXAM**	**Cumulative**