MATH 122 – Business Calculus – Spring 2018

Instructor: Joseph C Foster   **Email:** josephcf@math.sc.edu
CRN: 51797   **Office:** 104A
Class Meeting Room &Time: Hamilton 235, MWF 9:40-10:30   **Office Hours:** MWR 10:30-11:30

COURSE DESCRIPTION AND OBJECTIVES

Learning Outcomes: Upon successful completion of the course, students should be able to:

- Recall basic mathematical terms related to elementary algebraic, exponential and logarithmic functions, and derivatives and integrals of such functions, as well as express these terms in correct context.
- Apply the methods of calculus to solve applications involving maxima, minima, rates of change, motion, work and area under a curve.
- Verbally interpret data given as graphs, tables and equations and put into words the relationship between a function and its derivative or integral given in these forms as well.

MATERIALS

- **Online Materials:** Blackboard: Here I shall post lecture notes, handouts, homework assignments and solutions, and more.
- **Textbook:** *Applied Calculus (5th Edition)*, by Hughes-Hallett. Gleason, Lock, Flath, et al. Note: Textbook and Wiley+ NOT required
- **Calculator**: Calculators will not be required, but appropriate scientific and graphing calculators are permitted. (For example the TI-83 or TI-84, speak to me if you have one different to these).

COURSE POLICIES AND EXPECTATIONS

Attendance: You are expected to attend EVERY class and also arrive on time. Anybody missing 5 or more classes, without valid reason, may be subject to a grade penalty.

Participation: You are STRONGLY encouraged to participate during class. This includes both asking and answering questions. If something is not clear, ASK A QUESTION. I am here to help you learn, something I cannot do if you do not communicate with me. If a question is asked during class, ANSWER. Also remember that 'I'm not sure' is a perfectly acceptable answer for reasons already stated.

Classroom Rules: During class meetings you will treat both your fellow classmates and myself with respect. This includes, but is not limited to; not talking while others are talking, being cooperative during group tasks and listening when others contribute to the class.

Electronic Devices: You may use your laptops during class to take notes only. If you are seen on your laptop on anything not pertaining to the class you will be asked to put your laptop away. Mobile phones should be on silent and placed in your pocket or bag. No phones on desks. If you are asked to put something away and refuse, an immediate 5% will be deducted from your final grade. Class time is a valuable resource, I will not waste any arguing.

Exam Rules: During exams you are required to place all electronic devices, including smart watches, into your bags or out of reach. Headwear such as hats and hoods must be removed during exams, unless you have a religious reason as to why they cannot be removed. Only approved calculators are allowed.

Academic Integrity: I expect you to familiarise yourself with the Honour Code found in the current student handbook. Keep in mind that "Any student who violates this Honour Code or who knowingly assists another to violate this Honour Code shall be subject to discipline".

Students with Disabilities: If you require additional accommodations due to disabilities, you MUST register with the Office of Student Disability Services (LC112A). You must also talk to me as soon as possible near the start of the semester.

Studying: It is expected as a MINIMUM that you match every hour we spend in class with an hour of independent study. Note that this really is a lower bound. The more time you spend the better. It will not be enough to simply attend lectures and attempt to regurgitate what you see on the board. Collaboration with your fellow classmates is strongly encouraged. You are not expected to learn everything by yourself. Maths is difficult, talking about it is one of the best ways you can digest it.

Late Policy: Late homework will be subject to a 30% grade penalty if submitted before class on the Monday immediately following the due date. After this late homework will not be accepted as solutions will be made available on this day for students to study with. If you cannot make it to class you may scan and email me a copy of your homework. Do not send me pictures of the homework taken with your phone.

Make-Up Policy: Exams can be made up ONLY in the case of an emergency, and ONLY if you request a make-up exam BEFORE the scheduled time. It is your responsibility to contact me within a reasonable time to request a make-up exam."

ASSIGNMENTS

Homework: There will be weekly homework assignments, except weeks when there is a midterm, due on Fridays at the start of class. Each will consist of seven questions that will help you prepare for the exams.

Quizzes: There will be weekly quizzes, again except weeks when there is a midterm, on Mondays. Each quiz will consist of two questions closely related to the homework questions. If you start the homework over the weekend, then you will be prepared for the quizzes

Midterms: There will be three midterm exams, given in class. Each will be based on material covered from the class after the previous midterm until the class before the midterm.

Final Exam: The final exam will be cumulative and be given on Wednesday May 2nd, 9 a.m.

EVALUATION

Homework (9) ....315 Points (≈27%)
Quizzes (9) .... 90 Points (≈8%)
Midterms (3) ....450 Points (≈39%)
Final Exam (1) ....300 Points (≈26%)

Final Grades will use the following scale:

A	B+	B	C+	C	D+	D	F
1000+ pts	970-999 pts	900-969 pts	870-899 pts	800-869 pts	770-799 pts	700-769 pts	699 pts and below
≈87%+	≈84-86%	≈78-83%	≈75-77%	≈69-74%	≈67-68%	≈61-66%	≈60% and below

SUPPORT:

- My Office Hours – MWR 10:30-11:30, LeConte 104A
- FREE TUTORING in LeConte 105 – Schedule posted on door.
- Student Success Centre – Offers FREE tutoring and FREE 1 on 1 ONLINE tutoring. (http://www.sa.sc.edu/ssc/)

CALENDAR

Important Dates:

- January 22nd, Last day for students to DROP without a grade of "W".
- March 9th, Last day for students to DROP or withdraw without a grade of "WF".
- The cumulative Final Exam is Wednesday May 2nd, at 9 a.m.

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		Monday	Wednesday	Friday
Week Beginning	15-Jan	No Class		
	22-Jan	Last Day to drop without a "W" Quiz 1		Homework 1 Due
	29-Jan	Quiz 2		Homework 2 Due
	5-Feb	Quiz 3		Homework 3 Due
	12-Feb		Review	Exam 1
	19-Feb	Quiz 4		Homework 4 Due
	26-Feb	Quiz 5		Homework 5 Due
	5-Mar	Quiz 6		Last day to drop without a "WF" Homework 6 Due
	12-Mar	Spring Break		
	19-Mar		Review	Exam 2
	26-Mar	Quiz 7		Homework 7 Due
	2-Apr	Quiz 8		Homework 8 Due
	9-Apr	Quiz 9		Homework 9 Due
	16-Apr		Review	Exam 3
	23-Apr			
	30-Apr	No Class	Final Exam 9:00 a.m.	No Class