

Valencia College
MAC 2233 Section: 31216
Business Calculus
Summer 2017

Instructor: Julia Nudel

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Office Hours: Held in 5-250 (West Campus)

MW 1 – 3 PM

Virtual Office Hours (Blackboard email): TR 7 – 9 PM

Course Description:

This course is designed to give the algebraic tools necessary for success in the calculus sequence. Topics will include a review of algebra concepts, linear and non-linear models and techniques of differentiation and integration. Application will be emphasized. Students will be required to solve applied problems and communicate their findings effectively. Graphing calculators are a daily requirement for the class.

Educational Materials:

Textbook: Calculus with Applications by Lial, Greenwell and Ritchey 11th edition (e-book included with MyMathLab access code, physical copy optional)

Calculator: A graphing calculator is required. TI – 83 or TI-84 is recommended for exams.

MyMathLab Code: Required to log in to Pearson Mastering website used for homework and exams.

Resources:

- The West Campus Math Center is in 7-240. There you will find Valencia math department staff, peer tutors, and study rooms, computer-based tools as available for your text, and support materials for check-out with your Valencia ID including graphing calculator. Peer tutoring is only available M – F on West Campus. Check for availability on other campuses.

Hours:

MTWTh	8AM – 7PM
Fri	8AM – 4PM
Sat	9AM – 2PM
Sun	11AM – 4PM

Withdrawal:

- Per Valencia Policy 4-07 (Academic Progress, Course Attendance and Grades, and Withdrawals), a student who withdraws from class before the withdrawal deadline of **July 7, 2017** for Summer Full Term classes will receive a grade of “**W**”. A student is not permitted to withdraw after the withdrawal deadline. A faculty member **MAY** withdraw a student up to the beginning of the final exam period for violation of the class attendance policy. A student who is withdrawn by faculty for violation of the class attendance policy will receive a grade of “**W**.” Any student who withdraws or is withdrawn from a class during a third or subsequent attempt in the same course will be assigned a grade of “**F**.” For a complete policy and procedure overview on Valencia Policy 4-07 please go to:
<http://valenciacollege.edu/generalcounsel/policydetail.cfm?RecordID=75>.

If you do not participate in IceBreaker Discussion, you will be withdrawn (No-Show Policy). After that period, if you wish to withdraw from the course, you **must** do so by **July 7, 2017** to receive the grade of **W**. If you do not withdraw, and do not take the final exam, you will receive **F** in the course.

Academic Honesty:

The work on assignments and exams in the course must be your own work. Copying of any kind, regardless of the number of editorial changes and/or renaming will be considered cheating. Many testing centers for proctored exams do not allow the use of cell phones instead of a calculator. You may only use a graphing calculator on the final exam. Storing formulas on a calculator will be considered cheating. If you are caught cheating, you will receive F for the assignment and may receive F in the course.

Methods of Evaluation:

Your grade is based on four components: MyMathLab homework, unit exams (MyMathLab), discussions including group discussions (Blackboard) and a comprehensive final exam (to be taken at the testing center). The lowest exam score is dropped. **Your first missed test is your dropped test, no exceptions!**

Homework: Completion of homework is crucial to success in this course. Specific homework problems are assigned for each section in MyMathLab. The problems can be attempted an unlimited number of times until you achieve a mastery of the topic. The due dates can be found in the course calendar or in MyMathLab (usually sections due by Fri by 11:59 PM).

Discussions: There will be weekly discussions in Blackboard. The discussion forum is a platform designed for you to collaborate (think, share and learn) with your classmates in a constructive manner. You will also demonstrate writing out complete solutions to chosen problems and comment on peers' responses. There will also be some group discussions in small groups and bonus discussions (bonus added to discussion grades).

Tests: There will be 4 exams in MyMathLab (see availability dates in course calendar). They will be timed (about 120 min) and will consist of problems similar to homework. Lowest test grade is dropped.

Final: The scheduled Final Exam must be taken at one of the testing centers of Valencia College or a pre-approved proctored location (pre-arrangement is required) by the due date. It will be closed-book and closed notes, but you can use your calculator and one 3x5 card. It will take place during last week of class (see course calendar).

Your grade for the course is determined as follows:

Exams	45%
Homework	20%
Discussions	15%
Final Exam	20%

A grade is assigned on a standard scale.

A	90% - 100%
B	80% - 89.9%
C	70% - 79.9%
D	60% - 69.9%
F	0% - 59.9%

MAKE UP POLICY:

Indicated homework deadlines in the course calendar and/or course announcements are final (extensions may be provided due to special circumstances). Discussions can be revised based on feedback up to 1 week after initial post deadline (see course calendar); discussions won't be accepted after 1 week after initial deadline. Please consult the course calendar and plan accordingly.

No make-up exams! If you do not complete proctored final exam and do not withdraw from the class, you will receive **F** in the course!

COMMUNICATION PLAN:

I will try to answer e-mails within 24 hours during the school week. Weekend response times may vary. Please note that you are responsible for all posted announcements in Blackboard, and messages and emails via Blackboard and Atlas. Please try to check the course shell frequently! Should you have any questions, feel free to drop me an e-mail or call me at my office.

TECHNICAL PROBLEMS:

Technical problems such as power outages and unavailability of Internet connections can happen. Do not wait until the last minute to complete your assignments, quizzes and tests. Technical problems are not an acceptable excuse for work that has not been completed by the due date. If your computer freezes, restarts, or loses Internet connection, homework results may not be recorded, please check your grades in MyMathLab Gradebook regularly.

My Math Lab technical support: The number is 1-800-677-6337 (M-F 8am – 5pm CST)

Content covered in the course:

Ch 1: Review of slope and linear functions

Define terms: marginal cost, fixed cost, cost function, revenue, profit, demand, supply, equilibrium point, equilibrium price and demand

Ch 3: Limits, continuity, average rate of change, instantaneous rate of change, limit definition of derivative

Ch 4: Compute derivative via Power Rule, etc., marginal cost, product, quotient, chain rule, derivatives of exponential and logarithmic functions

Ch 5: Maxima & minima of functions, increasing/decreasing intervals, 1st derivative test, 2nd and higher level derivatives, concavity intervals, 2nd derivative test for max & min, graphs of polynomial and rational functions

Ch 6: Applications of derivative, absolute max & min, elasticity of demand, related rates

Ch 7: Anti-derivative, integral & applications, u-substitution, area under curve, Riemann sums, geometric interpretation of area under curve, definite integral and applications

Ch 8: Average value of a function

Tutoring: In addition to regular tutoring available on every campus, SmartThinking online tutoring is available in every subject including higher-level mathematics courses (up to 8 hours can be accessed for free every semester). It can be accessed in Atlas or via link in Blackboard.

Special Accommodations:

Students with disabilities who qualify for academic accommodations must provide a letter from the Office for Students with Disabilities (OSD) and discuss specific needs with the professor, preferably during the first two weeks of class. The Office for Students with Disabilities determines accommodations based on appropriate documentation of disabilities (West Campus SSB 102, extension 1523).

Student Resource for Assistance: Valencia College is interested in making sure all our students have a rewarding and successful college experience. To that purpose, Valencia students can get immediate help with issues dealing with stress, anxiety, depression, adjustment difficulties, substance abuse, time management as well as relationship problems dealing with school, home or work. BayCare Behavioral Health Student Assistance Program (SAP) services are free to all Valencia students and available 24 hours a day by calling (800) 878-5470. Free face-to-face counseling is also available.

For more information about Student Ombudsman to assist student dispute resolution, please check this link: <http://valenciacollege.edu/students/disputes/academic/ombudsman.cfm>

Disclaimer:

Changes in the syllabus, course calendar, evaluation procedure, homework assignments, and/or any other documents may be made at any time.