MAC 2233 Business Calculus
Fall Term - 2019
Professor Amy Montague-Kincade

College General Phone Number	(407) – 299 – 5000
College Website	www.valenciacollege.edu
Math Department Phone Numbers	(407) – 582 – 1625 **OR** (407) – 582 – 1848
Instructor's Phone Number	(407)-582-1150
Instructor's E-mail	akincade@valenciacollege.edu akincade@mail.valenciacollege.edu
Instructor's Office Hours Location	4 - 221

Faculty Website:
http://frontdoor.valenciacollege.edu/faculty.cfm?uid=akincade&CFID=1721052&CFTOKEN=57358526&jsessionid=21B91038C0D5C17948D0A5BFA5F3FA6E.cfusion

Class Schedule for Professor Kincade

CRN	*Course*	*Description*	*Days*	*Times*	*Location*
10256	MAC 2311-004	Calculus I	M W	1:00 pm – 3:20 pm	9-132
10251	MAC 2233-003	Business Calculus	T R	10:00 am – 11:50 am	9-132
10249	MAC 2233-001	Business Calculus	T R	1:55 pm - 3:45 pm	7-216
13898	MAP 2302-002	Differential Equations	T R	4:00 pm – 5:15 pm	7-216

Student Engagement Hours for Professor Kincade

Day	*Times*	*Location*
Monday	10:45 am – 12:45 pm	4-221
Tuesday	12:00 pm - 1:45 pm	4-221
Wednesday	10:45 am – 12:45 pm	4-221
Thursday	12:00 pm - 1:45 pm	4-221
Friday	9:00 am – 11:30 am	Online/phone akincade@valenciacollege.edu 407-582-1150

Additional Student Engagement Hours may be available upon request.

Math Center Contact Information:

Math Center Front Desk	(407) – 582 – 1633
Aditi Batra (Supervisor)	(407) – 582 – 1720
Nicolas Navarro (Supervisor)	(407) – 582 – 1780

Math Center Resource Information:

Math Center Hours & Open Lab (Building 7, Room 240):

Days	Times
Monday – Thursday	9:00 AM – 7:00 PM
Friday	9:00 AM – 12:00 PM
Saturday	10:00 AM – 3:00 PM
Sunday	CLOSED

SPECIAL NOTE: *Hours subject to change. Check with the Math Center for updated changes and/or closures throughout the semester.*

COURSE DESCRIPTION: **Calculus for Business and Social Science** includes the study of limits and continuity; differentiation and integration of algebraic, exponential and logarithmic functions; applications of derivatives, definite and indefinite integrals; curve sketching; the use of graphing calculators to explore selected topics; and mathematical communication skills. The prerequisite for this course is a minimum grade of C in MAC 1102 or MAC 1104 or MAC 1105.

REQUIRED TEXTBOOK AND OTHER MATERIALS
1) *Applied Calculus*, Seventh Edition, by Stefan Warner and Steven Costenoble.

2) As your instructor, I do require a WebAssign Student Access Kit (Blackboard Learning Systems)
    Webassign course codes: valenciacollege 1534 6104 (10 am class)
    valenciacollege 6821 6384 (1:55 pm class)

3) Calculator:
    A graphing calculator that does not perform symbolic manipulations is required. The TI-84+ is used for in-class demonstrations and is particularly recommended.
    If you are receiving financial aid it may be possible to utilize some of your funds to purchase your calculator. Check with the financial aid office for more information.

Class Policies

Attendance

- You are expected to attend every class meeting, unless an illness or emergency makes it impossible for you to do so.
- Absences are excused solely at the discretion of the instructor, who may require that you prove the existence of extenuating circumstances before excusing any absence(s).

- You are responsible for any information and/or assignments given during class, whether you are present or not.
- In-class activities can't be "made up." If you are absent on a day that an in-class activity occurs for credit or extra credit, your grade is likely to be adversely affected.
- You are expected to be in class on time, and to remain in class for the entire period unless permission to leave early has been granted by the instructor. It is disruptive to arrive or depart while class is in session.
- Missing more than 3 of the class meetings will be considered sufficient reason for you to be withdrawn from the class for inadequate attendance.

As an incentive, you can earn bonus points for attendance. The point structure is listed below:

No absences	10 points
1 absence	5 points
more than 1	no bonus points

All absences (both excused or unexcused) will be considered as absences when attendance bonus points are awarded at the end of the semester.

Homework

- Completion of homework on a regular basis is crucial to your success in this course.
- Problems from the text will be assigned for completion before each class meeting. You are encouraged to seek assistance from the instructor if you encounter difficulties with the assigned problems or visit the Math Center, 7-240.
- Several times during the semester, selected homework problems will be collected and graded in the form of a homework quiz.

Homework Quizzes

During the semester, you may be required to turn in selected homework problems or assignments for grading as a quiz grade. The quizzes may vary in point value based on the number of problems selected for that assignment. No late homework quizzes/assignments will be accepted. Some of these quizzes will be completed using the webassign program.

Exams and Quizzes

Exam dates will be announced at least one class prior to the testing date. During the semester, at least 4 exams will be given. **NO MAKE-UP EXAMS OR QUIZZES will be given**. Quizzes of any type may be announced or unannounced. Additonal guidelines are listed below.

- You must complete each test within the time allotted during the class period.
- Every quiz score will be used in the computation of your overall course grade. All exam scores except the lowest one will be used in computation of your overall course grade. The lowest test/exam score will be dropped if it is beneficial to your overall course grade.
- It is your responsibility to make a timely request for an absence should you miss a test. If you do not request an excused absence for a missed test, or your request for an excused absence is denied, you will receive a zero on that test.

- All materials in your work area during testing, including electronic memory, are subject to thorough and unannounced inspection by the instructor.
- Failure to take the Comprehensive Final Exam will result in a grade of F.

Projects

During the semester, the class may have the opportunity to participate in one or more projects. They may be during class time or outside of class time. The value for each project can range from 20 to 200 points.

Grading

- Partial credit on tests and assignments is sometimes given, when appropriate, solely at the discretion of the instructor.
- Grades will not be disclosed over the telephone or via e-mail, except through your Atlas account.
- You must meet with the instructor if you wish to discuss your grade.

Course Grade Determination

Your grade will be an overall average of points earned from the following list: (points earned / total points possible)

Tests/Exams	100 points each
Quizzes	10 – 60 points each
Homework Quizzes	10 – 60 points each
Attendance	up to 10 bonus points
Projects	20 – 200 points each
Final Exam	120 – 200 points (not to exceed 25% of the total grade)

Scores on all tests and assignments will be rounded to the nearest percent. End-of-term averages are rounded to the nearest tenth of a percent. Failure to take the Comprehensive Final Exam will result in a grade of F.

Grading Scale

A	90-100
B	80-89
C	70-79
D	60-69
F	59 – 0

Final Exam Schedule

There will be a comprehensive final exam given according to the official schedule. Failure to take the Comprehensive Final Exam will result in a grade of F. For Summer Sessions, the Final Exam will be given on the last day of class. For Fall and Spring Semesters, the official final exam schedule will be followed.

CRN	Course	Description	Days	Class Times	Location	Final Exam Day/Date	Final Exam Time
10256	MAC 2311-004	Calculus I	M W	1:00 pm – 3:20 pm	9-132	Monday 12/09/2019	1:00 pm to 3:30 pm
10268	MAC 2233-003	Business Calculus	T R	10:00 am – 11:50 am	9-132	Tuesday 12/10/2019	10:00 am to 12:30 pm
10266	MAC 2233-001	Business Calculus	T R	1:55 pm - 3:45 pm	7-216	Tuesday 12/10/2019	1:00 pm to 3:30 pm
14335	MAP 2302-002	Differential Equations	T R	4:00 pm – 5:15 pm	7-216	Tuesday 12/10/2019	5:00 pm to 7:30 pm

NOTE: *Your Final Exam may be at different time than your regular class time.*

Make-Up Policy

You are expected to participate in all classroom activities (including exams and quizzes of all types) regardless of whether the activities are scheduled or unscheduled. There are **NO make-up examinations, quizzes or projects** unless you are absent due to a legitimate reason approved by the instructor or a valid emergency circumstance such as an illness or death in the family. Obligations to work, child care, traffic conditions, or being sick with no documentation are not considered excused absences and make-up examinations due to these reasons will NOT be permitted! All make-up examinations should be completed immediately upon return to class. **If your absence is unexcused or timely notice was not given, you will receive a zero for any missed tests, quizzes, or in-class assignments.**

Withdrawal

The deadline for withdrawing from class with a grade of "W," if you are eligible to do so, is November 1, 2019 (11:59 PM on atlas) for full term Fall 2019 classes. During the first or second attempt in the same course at Valencia, if you withdraw or are withdrawn by the professor, before the Withdrawal Deadline, you will receive a W (Withdrawn). You will not receive credit for the course, and the W will not be calculated in your grade point average; however, the enrollment will count in your total attempts in the specific course. If you do not withdraw prior to the Withdrawal Deadline or fail to take the required final examination, the professor will assign your grade based on your performance in the course at the time of withdrawal.

Per Valencia Policy 4-07 (Academic Progress, Course Attendance and Grades, and Withdrawals), a student who withdraws from class before the withdrawal deadline will receive a grade of "W." A student is not permitted to withdraw after the withdrawal deadline. The department Dean (at the request of 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 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://valenciacc.edu/generalcounsel/policydetail.cfm?RecordID=75

Academic Honesty

Plagiarism or cheating of any form will be cause for **immediate removal from this class, a course grade of F and referral of this incident to the Dean of Student Affairs/Mathematics**. Cheating is defined by any behavior that can be construed as cheating such as blatant cheating, looking at somebody's paper, talking or whispering during a test, copying (including all take-home activities, examinations, and/or homework assignments), use of a cellular phone or other electronic device without prior permission, suspicious behavior, or failing to follow appropriate procedures for taking a test as prescribed by the instructor. **SIMPLY stated, cheating will not be tolerated.**

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.

Conduct

- You are encouraged to actively participate and ask pertinent questions during class. Courtesy will be observed at all times.
- Your attitude will greatly affect your ability to succeed in this course. It will also affect your classmates' attitudes should you choose to participate in class discussions. Always consider this carefully before you speak or act.
- Cell phones, pagers, or other devices that are audible are not permitted to be on during class. Texting is not permitted during class. Unplug yourself and make the most of class time! Personal electronic devices disrupt your learning as well as the learning of other students.
- To create a good environment for learning, avoid sidebar conversations with other students while work is being done at the board, rude comments or remarks, raised voices or confrontational comments. Follow instructions given by your instructor, who serves as your classroom manager.
- If your actions in class are deemed by your instructor to be disruptive, you will be asked to leave class immediately. If you are ever asked to leave class, you may be permitted to return to future class meetings

after consultation with your instructor outside of class. You may also be required to arrange a conference with another college official before a determination is made on whether you will be attending class again.

Resources

- Your instructor is interested in your success in this class. Please ask questions regularly!
- Many students of mathematics find it extremely helpful to form study groups with their classmates. This practice is highly recommended.
- The West Campus Math Center is being renovated this term. During the renovation, learning support for mathematics can be found in
  - ➤ 7-240 (required Open Lab and Math Connections),
  - ➤ 7-240 (materials for check-out with your VCC identification card), and
  - ➤ 7-240 (walk-in tutoring for mathematics).

- Peer tutors in 7-240 are available for walk-in assistance, no appointment necessary. Tutors have been trained to use techniques that help you become an independent learner. They have been instructed to guide you through the problem solving process and utilize the materials you have available through your course. They may help you by asking open-ended questions, walking you through examples in your text, or (hopefully on rare occasions) using pencil and paper to show you how to solve a problem similar to one you are working on. Since the tutors' goal is to help you become an independent learner, they will let you do the work as much as possible. The learning process requires a regular investment of your time, and patience is the key.
- If you purchased a new text, you received a Student Access Kit for the companion software with it. It is also possible to purchase a student access kit separately in the bookstore or online. WebAssign is the software that accompanies the books for MAC 2233 and MAP 2302. MAT 1033C and MAC 1105 use MyMathLab.

Valencia Community College wants graduates to possess and demonstrate a set of global competencies including the ability to **THINK, COMMUNICATE, VALUE AND ACT**. In an effort to help you acquire and improve your ability to demonstrate the competencies this course will include activities that require you to:

1. Think clearly, critically and creatively.
2. Communicate with others in written and verbal form.
3. Make reasoned value judgments and responsible commitments.
4. Act purposefully, reflectively and responsibly.

Other policies & Information:

Computer/Equipment Use Policy: This course relies on the use of technology to aid in your learning. You are expected to check Blackboard and your e-mail at least once before class to ensure that you have the most current information. Computers are available on campus if you do not own one. If you experience any technical issues, call the support number below.

Blackboard Help Desk: (407)-582-5600 or   onlinehelp@valenciacollege.edu
OIT Help Desk: (407)-582-5554

E-mail Communication Policy: The instructor will only correspond with you through your atlas e-mail only. Students are expected to check their atlas e-mail daily. The instructor may send updates, announcements, changes, etc. to your atlas e-mail. Students are responsible for all messages sent to your atlas e-mail by the instructor. The instructor will not correspond with any other e-mail account, PDA, or cell phone. All e-mail correspondence must originate from your Valencia account. Grades are discussed by appointment only or through your atlas e-mail. All e-mail by students and the instructor should be respectful and professional. Students should identify their name, class that they are in, and a complete message using respectful language, complete sentences, and proper grammar. A subject line is mandatory.

Valencia ID card: Your student ID card can be obtained in the Student Development office on any Campus once you have registered and paid for your classes. You will need your student ID card to access campus services such as the Library and Testing Center. The first student ID card is free. There is a $5 fee for a replacement card. Student IDs can be used for library access, testing purposes and discounts in the community.

Changes in the syllabus, schedule, and/or assignments for this class may be made at the discretion of your instructor.

List of Topics to be Covered this Term for MAC 2233

CHAPTER 1- Functions and Applications

CHAPTER 2- Non-Linear Functions and Models

CHAPTER 3- Introduction to the Derivative

CHAPTER 4- Techniques of Differentiation and Applications

CHAPTER 5- Further Applications of the Derivative

CHAPTER 6- The Integral

CHAPTER 7- Further Integration Techniques and Applications of the Integral

MAC 2233 Business Calculus Assignments 7th Edition)

Section	Page Number	MAC 2233 Homework Assignment Questions
Chapter 1		*CHAPTER 1- Functions and Applications*
1.2	78	1 – 63 odd
1.3	97	1 – 105 odd
1.4	110	9 – 13, 19, 21, 23, 25
Chapter 2		*CHAPTER 2- Non-Linear Functions and Models*
2.1	141	1 – 41 odd
2.2	156	1 – 97 odd
2.3	170	1 – 65 odd
2.4	179	1 – 35 odd
Review	185	1 – 45 odds
Chapter 3		*CHAPTER 3- Introduction to the Derivative*
3.1	212	1-55 odd
3.2	222	1-41 odd
3.3	235	5-81, 85, 87, 89, 91
3.4	247	1 – 31 odds
3.5	268	1 – 81 odds
3.6	286	1 – 49 odds, 53, 57
Review	290	1 – 57 odds
Chapter 4		*CHAPTER 4- Techniques of Differentiation andApplications*
4.1	314	1-91 odd, 95, 99, 104
4.2	325	1 – 45 odds
4.3	338	1 – 75 odds, 77, 81,83, 89, 91
4.4	351	1 – 81 odds
4.5	364	1-83 odds, 89 – 95 odds
4.6	375	1-61 odds
Review	377	1 – 71 odds
Chapter 5		*CHAPTER 5- Further Applications of the Derivative*
5.1	399	1-55 odd
5.2	409	1-39 odd, 53 – 61 odds, 71, 73
5.3	424	1 – 63 odds, 71, 73,77, 81
5.4	438	3,7,9,11,23, 31, 35, 40(Use calculator), 41
5.5	446	1 – 31 odds, 35, 39, 41

5.6	454	1 – 33 odds
Review	459	1 – 37 odds
Chapter 6		*CHAPTER 6- The Integral*
6.1	482	1-57 odds, 89 – 95 odds
6.2	495	1-93 odds,
6.3	511	1 – 33 odds,
6.4	523	1-67 odds
Review	529	1 – 61 odds
Chapter 7		*CHAPTER 7- Further Integration Techniques and Applications of the Integral*
7.1	548	1-57 odds
7.2	556	1 – 8 all, 9 – 37 odds, 45, 55
7.3	565	1 – 27 odds, 35, 37, 39, 49, 51
7.4	576	1 – 53 odds
7.5	585	1-25 odd, 39, 43
7.6	570	1-27 odd (if time permits)
Review	597	1 – 49 odds

MAC 2233 – Business Calculus
Timeline (Kincade)
Fall 2019

Dates (M – Su)	
8/26 – 9/1	Introductions/policies 1.2 Functions & Models 1.3 Linear Functions & Models 1.4 Linear Regression
9/2 – 9/8 *No Classes Monday 9/2 Labor Day*	*Chapter 1 Quiz due* 2.1 Quadratic Functions & Models 2.2 Exponential Functions & Models 2.3 Logarithmic Functions & Models 2.4 Logistic Functions & Models *Chapter 2 Material will be integrated into the course and assessed with quizzes or take home activities at appropriate times* 3.1 Limits: Numerical & Graphical
9/9 – 9/15	3.1 Limits: Numerical & Graphical 3.2 Limits & Continuity 3.3 Limits & Continuity (Algebra)
9/16 – 9/22	3.4 Average Rate of Change 3.5 The Derivative (Num & Graphs) 3.6 The Derivative (Algebra) 4.1 Derivatives (Powers & Sums)
9/23 - 9/29	*Chapter 3 Exam* 4.3 The Product & Quotient Rules 4.4 The Chain Rule
9/30 – 10/6	4.5 Derivatives of Logs & Exponents 4.6 Implicit Differentiation 4.2 Marginal Analysis
10/7 – 10/13	*Chapter 4 Exam* 5.5 Related Rates 5.6 Elasticity
10/14 – 10/20	5.5 & 5.6 5.1 Maxima & Minima 5.2 Applications of Max & Min
10/21 – 10/27	5.3 Higher Order Derivatives

	5.4 Analyzing Graphs
10/28 – 11/3	*Chapter 5 Exam* 6.1 The Indefinite Integral 6.2 Substitution
11/4 – 11/10	6.3 The Definite Integral: Numerical & Graphical 6.4 The Definite Integral: Algebraic Approach 7.1 Integration by Parts
11/11 – 11/17 *No Classes* *Monday 11/11* *Veterans' Day*	*Chapter 6 Exam* 7.2 Areas between Curves 7.3 Averages & Moving Averages
11/18 – 11/24	7.4 Applications: Consumers & Producers Surplus, Continuous Income Streams 7.5 Improper Integrals (if time permits) 7.6 Differential Equations (if time permits)
11/25 – 12/1	Finish Chapter 7 and Review for Chapter 7 Exam *Thanksgiving Break – Wednesday, Nov 27th – Sunday, Dec 1st*
12/2 – 12/8	*Chapter 7 Exam* Review for Final Exam
12/9 – 12/15	**Final Exam Week (see final exam schedule at** **http://valenciacollege.edu/calendar/FinalExam.cfm or your syllabus)**

This timeline is subject to change at any time by your instructor.