

Course Syllabus

Valencia College

MAC 2233 Calculus for Business and Social Sciences

Fall 2022

Course Syllabus for CRN 10533

Face-to-face Course

Class: Tuesday, Thursday 7:00 am – 8:40 am in 1-271

Welcome to the course MAC 2233!

I look forward to a productive and enjoyable semester together with each of us working towards your success. Please read through the following information (and reread it periodically throughout the semester) in order to be aware of important course information. I promise I will do my best to make your learning experience both informative and engaging.

Instructor: Liudmila Kashirskaya

Email: lkashirskaya@valenciacollege.edu

(Canvas messaging is preferred)

Student Engagement Hours (office hours):

Tuesday-Thursday 8:50am-9:50 am Room 2-115

Online hours (via email): Monday - Saturday: 9:00pm–10:00pm

Text /Supporting Materials:

Code(Required): Knewton Alta Business Calculus

Knewton, Knewton copyright 2018, ISBN (ISBN-13) 978-1-63545-244-0

This course uses an online homework system. Therefore, you must have reliable access to an internet enabled device.

You must purchase Knewton Alta for this class(no additional book required).

***Graphing Calculator:* Graphing Calculator ([TI-83](#), [TI-83 Plus](#) recommended). The student is not permitted to store information or unapproved programs in the calculator.**

If you do not have a calculator, you can download a free 90-day trial of a TI 84 calculator you can use on your computer. Visit the following link for more information:<https://education.ti.com/en/downloads/trial-software>

Course Description:

MAC 2233 Calculus for Business and Social Sciences

Credit Hours: 3

Prerequisite: Minimum grade of C in MAC 1105 or appropriate score on an approved assessment. Introduction to calculus with applications to business and social science. Topics include differentiation and integration of algebraic, exponential and logarithmic functions, rates of change, curve sketching, and applications of the derivative and integration. Gordon Rule course. Minimum grade of C required if MAC 2233 is used to satisfy Gordon Rule and general education requirements.

This syllabus is an agreement between the student and the instructor. By enrolling in and then attending this course, the student agrees to and accepts the terms and conditions of this agreement. It is the responsibility of the student to carefully read this syllabus/agreement in its entirety and to adhere to all policies and procedures within the syllabus.

EVALUATION:

Homework: Homework will be assigned daily in Alta. Homework will be graded.

Quizzes: Quizzes will be announced in advance and assigned in Alta. Quizzes will be graded.

Activity: There will be a number of interactive activities in class.

- The Syllabus discussion will help you connect with the class and future groupmates. It's cannot be done after the due date.
- The Student Feedback of Instruction. You complete the survey and send me confirmation through the link provided and get points.
- There will be also the group works activity in class. You will get points for participation.

Testing: There will be three unit tests assigned in Alta and a final exam. Each exam (including the final) will consist of two parts. Each part will account for 50 percent of the exam grade. There will be an online portion of the exam which will be completed in Alta. There will also be a portion of the exam **in class** in which the student will answer additional questions and be asked **to provide their supporting work** . The unit tests will be announced in advance (see the attached course schedule) and will count equally. There are no exemptions from exams. The student is expected to keep up daily with the assigned work.

Final Exam: To receive credit for a course for which you are registered, you must take the final examination. It is your responsibility to know when and where the final

examination is scheduled and to be present and on time. If you do not take the final examination you will receive the grade you have earned in accordance with the requirements of each faculty member as outlined in the course syllabus.

One portion of the final exam will be taken via Knewton Alta, and the other will involve answers to additional questions (including supporting work) **in class on Tuesday, December 6, 2022 from 7am to 9:30 am.**

The final exam taken through Knewton Alta is due by Thursday, December 8, 2022, by 11:59 p.m.

Grading: The homework will be 25% of your grade. The average of the three unit tests will count towards 45% of your grade. A final exam (no exemptions) will count towards 20% of the student's grade. The average of the quizzes will count towards 5% of the student's final grade. And the average of the activities will count 5% of the student's final grade.

The college grading scale is: A(100-90), B(89-80), C(79-70), D(69-60), and F(59-0)

Attendance And Withdrawal Policy:

This on campus course has required weekly class meetings (Tuesdays and Thursdays, 7:00a.m. – 8:40 a.m., Room 1-271, East Campus). Students wishing to withdraw from the course must do so before October 28, 2022. **Beyond that point – if a student decides they no longer wish to be in this course they will receive the grade of 'F'.** I will not be processing withdrawals simply because you are failing or no longer wish to take part in this class. I do not withdraw students after the withdraw date. Any student that does not complete the Syllabus Discussion or a homework assignment by August 29, will be withdrawn from the course as a "No-Show." If you are withdrawn as a "No-Show," you will be financially responsible for the class and a final grade of "WN" will appear on your transcript for the course.

MAKE UP WORK:

No quizzes will be made up. You may complete late homework but you will be assessed a 15% late penalty. If you miss a unit test and you have a valid reason, your final exam grade may count as the first missing unit test grade. If you miss more than one unit test, you will receive a 0 for any missing tests beyond the first missing test. If you have not missed any unit tests, the final exam may be used to replace the lowest unit test grade at the discretion of the instructor; this does not include the quiz average.

Important Dates:

Please see the course schedule at the end of this syllabus for important dates such as exam days and holidays.

Computer and Internet Requirements:

You must have reliable access to an internet enabled device. In addition, you will must have:

1. Access to ATLAS email and other websites as needed.
 2. Access to Canvas course page: <https://online.valenciacollege.edu>
- Use your ATLAS Username and Password
 - Make sure you run the Canvas Browser Requirements Check.
 - If you are new to Canvas, I recommend taking the Canvas 101 tutorial course.
 - Make sure you set your Notifications to notify you of class Announcements!

Learning Outcomes:

At the end of this course, you should be able to:

- Demonstrate an understanding of the limiting process as it applies to functions, continuity, derivatives, and integrals.
- Demonstrate an understanding of the concept of a derivative.
- Calculate indefinite and definite integrals.
- Solve applied problems using derivatives and integrals.

Valencia College Resources

Valencia College cares about the holistic wellness and success of every student. Check out the [resources available to support you academically](#) to achieve your goals.

Student Code of Conduct:

All students are expected to comply with Valencia College's policy on [student code of conduct](#)

Academic Honesty:

All students are expected to comply with Valencia College's policy on [academic honesty](#)

Withdrawal Policy:

Visit the link for Information on the [withdrawal policy](#)

Learning Assistance Resources:

In-Person Tutoring: Valencia's East Campus Learning Support Center offers in-person math tutoring services at the Math Center located in 4-102. Visit the [East Math Center website](#) to learn more and [East Learning Support Center website](#) for additional services and for links to services on all of Valencia's campuses.

Distance Tutoring & Technology Support at Valencia: Students can easily access Valencia's free distance tutoring from a computer, laptop or mobile device. Distance tutoring services are fully online via Zoom and provided real-time via a Valencia tutor for

mathematics, sciences, accounting & economics, computer programming, EAP, foreign languages, and writing.

To get started using the Distance Tutoring services, students can visit the [Distance Tutoring Home page](#). Through this site, students can view the schedule of tutors, find available times, learn more about the services, access tech support and a collection of supplemental resources that are available 24/7. If you have questions regarding college-wide tutoring services, please contact tutoring@valenciacollege.edu.

Brainfuse: Brainfuse is a 24/7 online tutoring and learning hub available to all of Valencia's students. This service is best used as a back-up to Valencia's virtual tutoring service, not as a replacement. Brainfuse is accessible through Canvas or by visiting the [Distance Tutoring Home page](#) and selecting the Brainfuse tab.

Valencia's Math Help 24/7: Valencia Math professors have created [pen-casts and videos](#) of common lessons to help you learn the concepts presented in class. Click on your course to view your lessons. Some lessons have more than one professor's perspective; watch more than one!

Students with Disabilities: Valencia students who qualify for academic accommodations must provide the professor with a Notification to Instructor (NTI) from the Office for Students with Disabilities (OSD). Students are expected to discuss their specific needs with the professor, preferably during the first two weeks of class. OSD determines accommodations based on appropriate documentation of disabilities. East: Ph: 407-582-2229 Fax: 407-582-8908 TTY: 407-582-1222. Here are the [campus locations and contact numbers](#).

Note to International Students (F-1 OR J-1 VISA): Please be advised that withdrawal from this course due to attendance may result in the termination of your visa status if you fall below the full-time enrollment requirement of 12 credit hours. Contact Valencia's [International Student Services office](#) for more information.

Core Competencies of a Valencia Graduate: Valencia's Student Core Competencies are complex abilities that are essential to lifelong success. This course will help you to develop and demonstrate the abilities to:

- THINK clearly, critically, and creatively;
- COMMUNICATE with others verbally and in written form;
- Make reasoned VALUE judgments and responsible commitments;
- ACT purposefully, reflectively, and responsibly.

Due to the nature of these global competencies, many of the problems will be presented in the context of an application. These applications will require students to select appropriate information from the problem and communicate effectively in order to explain and/or describe how the student used the skills they are learning to arrive at an appropriate solution for the problem.

Student Feedback on Instruction: Near the end of the term, students will receive an invitation through their Valencia ATLAS email account asking them to complete the Student Feedback on Instruction (SFI). This survey provides Valencia College professors

with feedback on students' experiences in courses and helps them to continually improve their courses. The results are released only *after* grades are submitted and students' names are *not* included in the results – all responses will be anonymous. This is also included in the students activity.

Student Assistance Program: Valencia College has contracted with a private and confidential counseling service [Bay Care Behavioral Health Student Assistance Program \(SAP\)](#) to provide FREE short-term assistance to students who need to resolve problems that are affecting their college performance. Examples might include: stress, relationship/family issues, alcohol/drug problems, eating disorders, depression, and gender issues. Students who are experiencing any of these issues and who are enrolled in credit classes at Valencia should call the toll-free number 1-800-878-5470 to speak to a professional counselor. If needed, the counselor may refer the student to appropriate resources or to speak face-to-face with a licensed counselor. For more information, call or visit a Counselor in Student Services on any campus.

Support for Students with Food/Housing/Financial Needs: Any student who has difficulty accessing sufficient food to eat, or who lacks a safe and stable place to live, and believes this may affect his or her performance in the course, is urged to complete a form at [Counselor in the Advising Center](#) or call 407-582-1507.

Student Accommodations of Religious Observances: The observance of religious holidays (activities observed by a religious group of which a student is a member) and cultural practices are an important reflection of diversity. Faculty are committed to providing educational opportunities to students of all belief systems. At the beginning of the semester, you should review the course requirements to identify foreseeable conflicts with assignments, exams, or other required attendance. Please contact your professor within the first two weeks of the first class meeting and at least seven calendar days prior to the holy day(s) to allow time for fair and reasonable adjustments as determined by the professor to the schedule and/or tasks. Visit this link for Valencia College's policy on [student accommodations of religious observances](#).

FERPA (Family Educational Rights and Privacy Act): FERPA is a Federal law that is administered by the Family Policy Compliance Office (Office) in the U.S. Department of Education (Department). 20 U.S.C. § 1232G; 34 CFR Part 99. FERPA affords students certain rights with respect to their educational records. Valencia College has a firm commitment to protecting the privacy rights of its students. For further [information on FERPA](#).

Title IX: Valencia College strives to be a place free from all forms of discrimination. Title IX protects students from discrimination based upon sex including protections against sexual violence, domestic violence, and stalking. This also includes protections for students who are pregnant or may become pregnant. If you experience sexual violence, domestic violence, or stalking and would like assistance there are several options available to you. Valencia partners with the Victim Service Center of Central Florida which is a confidential resource available 24/7. They can be reached by calling 407-497-6701 or you may prefer [assistance](#) on campus, or email Valencia College's Title IX and Equal Opportunity Officer, [Ryan Kane](#). If you would like to report to law enforcement, you may visit Campus Security or call 911.

Please note that there are no confidential resources on campus. As your professor, I am required to report any information mentioned in this statement to the appropriate campus resources. This will include your name, and detailed information shared with me. We take privacy very seriously at the College and only those who have a legitimate need to know the information will be provided with this information. Visit this link if you have more [questions about Title IX](#) or the College's response.

Disclaimer: Changes in the syllabus, schedule, evaluation procedures, and/or homework assignments may be made at any time at the discretion of the professor. In case you are absent, it is **your** responsibility to find out what, if any, announcements or changes have been made.

MAC 2233 Calculus for Business and Social Science	
FALL 2022	
DAILY SCHEDULE	
INSTRUCTOR: <i>Prof. Kashirskaya</i>	
SECTION #: 10533	
ROOM: 1-271 TIME: Tuesday, Thursday 7:00am-8:40am	
Tuesday	Thursday
August 23 §Relations and Functions	August 25 §Domain and Range
August 30 §Function Notation	September 1 §Find and Understand Slope
September 6 §Applications of Linear Equations	September 8 §Cost and Revenue Functions
September 13 §Applications of Quadratic Functions	September 15 §Average Rates of Change §Limits from a Graph or Table

September 20 §Find Limits Analytically §Limits at Infinity	September 22 Exam 1
September 27 §Definition of the Derivative	September 29 §Power Rule
October 4 §Tangent Lines	October 6 §Chain Rule
October 11 §Derivatives of e §Derivatives of Natural Log	October 13 §Product and Quotient Rules
October 18 §Differentials	October 20 Exam 2
October 25 §Marginal Cost and Revenue	October 27 §Elasticity of Demand
November 1 §First Derivative Test	November 3 §Second Derivative Test
November 8 §Absolute Extrema §Applied Optimization	November 10 Exam 3
November 15 §Antiderivatives	November 17 §Substitution and Power Rule

November 22 §Evaluating Definite Integrals §Definite Integrals with Substitution	November 24 THANKSGIVING
November 29 §Average Value	December 1 §Income Streams + Final Exam (online part in Alta) opens
December 6 Final Exam Due (written part in Class)	December 8 Final Exam Due (online part in Alta)closed

Last Date To Withdraw Without Penalty: October 28, 2022

Final Exam: Due by Tuesday, December 6 , 2022 (written part in Class) and

Due by Thursday, December 8, 2022 (online part in Alta).

College Closed (Credit Classes Do Not Meet):

Sept-05 (Labor Day)

Nov-11 (Veterans Day)

Nov-23 – 27 (Thanksgiving).