

Course Syllabus – Fall 2025

Math 16 Business Calculus

Math 216 Business Calculus Co-req Support

CLASSROOM: Lindley 271

Section#2003 MW 1:30-3PM & TH 1:30-2:30PM

Section#1097 T 1:30-2:30PM

Instructor Information

Instructor: Cortney Schultz

Email: cschultz@santarosa.edu

Office location: Kunde Hall 219

Phone: (707) 527-4705

Office Hours: All office hours are in person.

Monday & Wednesday: 4:30-5:30PM (Lindley 271)

Tuesday & Thursday: 1-1:30PM (Kunde 219) and 2:30-3PM (Lindley 271) and 5-5:30PM (Lindley 271)

You may schedule an appointment if you have a schedule conflict with the times listed above

Email Expectations: The best way to contact Prof. Schultz is by email cschultz@santarosa.edu or by sending a message through Canvas. During the week, you can expect an email response within 24 hours. You may get a response sooner, but there is no guarantee. If you email Prof. Schultz during the weekend, you can expect a response on Monday.

Grading for Math 16

Traditional grading scheme

Quizzes	12%	$A \geq 90$
Homework	16%	$80 \leq B < 90$
Exams (3 @ 18% each)	54%	$70 \leq C < 80$
<u>Comprehensive Final Exam</u>	<u>18%</u>	$60 \leq D < 70$
	100%	$F < 60$

Grading for Math 216

Pass/No Pass

Quizzes	40%	
Worksheets	50%	$PASS \geq 70$
<u>Practice Final Exam</u>	<u>10%</u>	$NO PASS < 70$
	100%	

Required Course Materials

Calculator: A graphing calculator is required for this course without a CAS system.

I will be demonstrating on a TI 84+. You are not allowed to use computer calculators on exams.

Textbook: *Applied Calculus*, by Denny Burzynski

1) Hardcopy of textbook with XYZ Homework - ISBN: 978-1-63098-323-9

2) eBook with XYZ Homework - ISBN: 978-1-936368-56-3

XYZ Online Homework: Homework will be completed and submitted online.

To access the online homework, you must purchase an access code. XYZ homework allows students 15 days of free access before asking them to purchase the access code.

To access our course online homework, open the homework assignments embedded in Canvas.

Math 16 Course Description: Students will study calculus concepts and techniques. Emphasis will be placed on the application of these concepts and techniques to business and management related problems. The applications of derivatives and integrals of functions including polynomials, rational, exponential, and logarithmic functions are studied.

Prerequisite: Completion of MATH 154 or MATH 156 or AB705 placement into [Math Tier 2 or higher](#). Students placing into tier 1 are required to take Math 200 concurrently with this course. Students placing into tier 2 are recommended to take Math 200 concurrently with this course.

Student Learning Outcomes: Here is the [link](#) for Math 16 course outline at SRJC. At the conclusion of this course, the student should be able to:

1. Perform methods of differentiation on algebraic, exponential, and logarithmic functions.
2. Perform techniques of integration, including substitution, on algebraic and exponential functions.
3. Apply calculus to find area between curves and to solve applied problems, with emphasis in the fields of business and economics.

Math 216 Course Description: Students will receive additional instructional support to enhance learning and promote conceptual understanding of Business Calculus. This course gives students an opportunity to strengthen their study skills and foundational mathematics competencies, and it allows more time with their instructor. Required for students who are concurrently enrolled in Math 16 and who have not passed intermediate algebra or Math 3 in high school or have a high school GPA less than 2.7. All Math 16 students who wish additional support are welcome and encouraged to enroll in this course.

Prerequisites/Corequisites: Concurrent Enrollment in MATH 16

Student Learning Outcomes: Here is the [link](#) for the Math 216 course outline at SRJC.

At the conclusion of this course, the student should be able to:

1. Apply effective learning strategies for success in Business Calculus.
2. Utilize algebra concepts and skills necessary for success in Business Calculus.

Exams

Three midterm exams and a comprehensive final exam will be given during the semester, and all exams must be taken on the scheduled dates.

If you have a DRD accommodation, it is your responsibility to discuss and schedule your exam accommodations with Prof. Schultz at least 1 week in advance.

If you miss an exam, you must contact me within 24 hours. If the absence is excused, your final exam score will replace your missed midterm score. Make-up exams are not given. If you are absent due to an illness, you are required to provide Prof. Schultz with a doctor's note.

Homework Grading/Late Homework

Select homework sections will be due twice a week on **Tuesdays** and **Thursdays** by 11:59PM.

You have 3 *attempts* at answering a homework question before you will be given a new question.

If homework is not completed by the due date and time, you can use a "late pass" to get an extra 48 hours to work on the assignment after the due date. All questions completed during the late pass period after the due date receive a 25% penalty.

Quizzes

In-class quizzes will be given throughout the semester during class leading up to the Math 16 final exam. These in-class quizzes will count towards both your Math 16 AND Math 216 grade. There are no makeups for quizzes. You must be in class to take them. If you are absent for a quiz, you will receive a zero.

At the end of the semester, your lowest two quiz scores will be dropped.

Math 216 Assignments

In class worksheets will be handed out regularly throughout the semester. In class assignments cannot be made up if you are absent. If you are absent the day an in-class assignment is given out, you will receive a zero for that assignment.

Canvas

Throughout the course, I will be posting notes, handouts, chapter review keys, and exam keys on Canvas. You may also keep up with your current grade by using Canvas.

Attendance

Daily attendance is essential. You may be dropped from the course if you have more than 4 absences. Arriving late or leaving class early may count as an absence.

Class Behavior Rules

- ❖ Students are to act respectfully and pay attention while in class.
- ❖ Please arrive on time and stay for the entire class period.
- ❖ Cell phones are to be turned off or set to silent mode.
- ❖ Students are expected to read the textbook.
- ❖ Students are expected to ask questions.
- ❖ Students are expected to be active participants in their education and do their best every day.

Important Academic Calendar Dates

- Monday, August 18th Fall semester begins
- Sunday, August 31st Last day to drop a class and receive a refund
- Sunday, September 7th Last day to drop a class without a "W" symbol
- **Sunday, November 16th Last day to drop a class with a "W" symbol**
- **MATH 16 FINAL EXAM: Wednesday, December 17 (10:00AM – 12:45PM)**
- **MATH 216 FINAL EXAM: Tuesday, December 16 (1:00 – 3:45PM)**

Cheating/Plagiarism

Please read SRJC's policy/procedure on academic integrity at

<http://www.boarddocs.com/ca/santarosa/Board.nsf/goto?open&id=A63TMC78051C>

All quizzes & exams (including the final) must be done by the student alone. Any student who violates this rule will receive a zero and may be reported to academic affairs for their offense. A student who commits a second offense may receive a failing grade in the class.

Accommodations for Disabilities

Please provide the Authorization for Academic Accommodations (AAA letter) from the Disability Resources Department (DRD) to me as soon as possible. You may also speak with me privately during office hours about your accommodations.

Emergency Evacuation

In the event of an emergency during class that requires evacuation of the building, please leave the class immediately and calmly. If you are a student who may need assistance in an evacuation, please see me as soon as possible to discuss an evacuation plan.

Tutoring

Free tutoring is available to all registered SRJC students.

- **SRJC Tutorial Centers** can be accessed through the website: <https://college-skills.santarosa.edu/srjc-tutorial-centers>
- **Math Lab Tutorial Center:** <https://mathematics.santarosa.edu/online-math-lab-tutoring>

Course Calendar

Fall 2025 - Math 16/216

Section #2003/1097

Room: Lindley 271

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY
	1:30-3:00PM	1:30-2:30PM	1:30-3:00PM	1:30-2:30PM
Week 1 Aug 18-21	<i>Syllabus/Intro + Algebra Review</i>	<i>Algebra Review</i>	1.1 Intro to Functions	1.1 Intro to Functions
Week 2 Aug 25-28	1.2 Algebra and Composition of functions	Quiz #1	1.3 Slope, Rates of Change, Linear Functions	1.3 Slope, Rates of Change, Linear Functions
Week 3 Sep 1-4	1.4 Intro to Limits	<i>worksheet</i>	1.4 Intro to Limits	1.6 Average & Inst ROC
Week 4 Sept 8-11	NO CLASS - Labor Day	Quiz #2	1.6 Average & Inst ROC	2.1 Intro to Derivatives
Week 5 Sept 15-18	2.1 Intro to Derivatives	2.2 Differentiating Products & Quotients	EXAM 1	2.2 Differentiating Products & Quotients
Week 6 Sept 22-25	2.2 Differentiating Products & Quotients	Quiz #3	2.3 Higher-Order Derivatives	2.4 The Chain Rule & General Power Rule
Week 7 Sept 29-Oct 2	2.4 The Chain Rule & General Power Rule	<i>worksheet</i>	2.4 The Chain Rule & General Power Rule	2.5 Implicit Differentiation
Week 8 Oct 6-9	2.5 Implicit Differentiation	Quiz #4	3.1 The First Derivative	3.1 The First Derivative
Week 9 Oct 13-16	3.2 The Second Derivative	<i>worksheet</i>	3.3 Optimization	3.3 Optimization
Week 10 Oct 20-23	3.4 Derivative Applications	Quiz #5	3.4 Derivative Applications	4.1 & 4.2 Log and Exp Functions
Week 11 Oct 27-30	EXAM 2	<i>worksheet</i>	4.1 & 4.2 Log and Exp Functions	4.3 & 4.4 Differentiating Logs and Exp Functions
Week 12 Nov 3-6	4.3 & 4.4 Differentiating Logs and Exp Functions	Quiz #6	5.1 Antiderivatives & Indefinite Integral	5.1 Antiderivatives & Indefinite Integral
Week 13 Nov 10-13	5.2 Integration by Substitution	NO CLASS - Veterans Day	5.2 Integration by Substitution	5.3 & 5.4 Definite Integral
Week 14 Nov 17-20	5.3 & 5.4 Definite Integral	<i>worksheet</i>	6.1 Area of Regions in a Plane	6.1 Area of Regions in a Plane
Week 15 Nov 24-27	6.2 Consumer's and Producer's Surplus	Quiz #7	7.1 Functions of Several Variables	NO CLASS - Fall Break
Week 16 Dec 1-4	7.1 Functions of Several Variables	<i>worksheet</i>	EXAM 3	7.2 Partial Derivatives
Week 17 Dec 8-11	7.2 Partial Derivatives	Quiz #8	<i>Final Exam Review</i>	<i>Final Exam Review</i>
Finals Week Dec 15-18	MATH 16 FINAL EXAM: Wednesday, Dec 17 (10AM-12:45PM) MATH 216 FINAL EXAM: Tuesday, Dec 16 (1-3:45PM)			

Note: Schedule is subject to change throughout the semester