

## LOS ANGELES VALLEY COLLEGE - MATH 267

### Calculus with Analytic Geometry III (section #9500 - 5.00 units)

MTWTh 11:20A-12:30P, Rm MS 106

Instructor: George Pete Caleodis Office: MS 104F  
email: caleodgp@faculty.laccd.edu Phone: 818-778-5915  
Drop-In Hours: MTWTh 7:50-8:00A, 10:50-11:20A; TTh 1:30-4P

**PREREQUISITE** A grade of C or better in MATH 266 and enrollment via STEM program.

### **COURSE DESCRIPTION**

Multivariable and vector calculus. The final course in a three-semester unified treatment of calculus and analytic geometry. Includes quadric surfaces, vector and parametric equations in two and three space, curvature, cylindrical and spherical coordinates, partial differentiation, gradient, maxima and minima for functions of several variables, multiple integration, surface integrals, line integrals, Green's Theorem, Divergence Theorem, and Stoke's Theorem.

### **OBJECTIVES**

Upon completion of this course, the students will apply algebraic operations on vectors in different dimensions, differentiate and integrate vector-valued and multivariate functions, obtain the graphs, level sets, or images of vector-valued and multivariate functions, solve a variety of physical problems using the calculus of vector-valued and multivariate functions.

### **STUDENT LEARNING OUTCOMES**

Students will be able to think analytically about higher level mathematical concepts in order to model and solve calculus problems.

### **TEXTBOOK**

Calculus, *James Stewart, Brooks/Cole Cengage Learning 7<sup>th</sup> Ed., 2012 (REQUIRED – either in hardcopy or through WebAssign)*. (The version bundled with WebAssign access that sells for \$180 new at LAVC's book store is ISBN-10: 1-111-87356-9. You may find other versions elsewhere, such as ISBN-13: 978-0-538-49781-7, ISBN-10: 0-538-49781-5, but they may not include WebAssign access.) Cengage's WebAssign is used to submit homework for this course.

### **UNITS OF INSTRUCTION**

Chapter 12: 12.1 – 12.6;	Chapter 13: 13.1 – 13.4;	Chapter 15: 15.1 – 15.10;
	Chapter 14: 14.1 – 14.8;	Chapter 16: 16.1 – 16.8

### **METHODS OF EVALUATION**

WebAssign homework assignments	200 pts.
5 in-class midterm examinations (100 pts. ea.)	500 pts.
in-class final examination (cumulative)	<u>300 pts.</u>
TOTAL	1000 pts.

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

Grades will NOT be “curved”, skewed, or otherwise inflated. No re-tests or “extra credit” will be given.

## **HOMEWORK**

Each of the odd exercises in the textbook should be completed. Only exercises indicated in class to be completed via WebAssign need be submitted for grading. *To achieve a high degree of mastery of the course material, it is suggested that students average at least 2 hours of study for each hour of class time.*

## **ATTENDANCE POLICY**

Attendance at all regularly scheduled class meetings is *expected*. Attendance at all examinations is *required*. In the case of absence, it is the student's responsibility to determine what material or class activities he/she may have missed and to take appropriate action as soon as possible. Please be advised that after the census week it is solely the responsibility of students to drop themselves from the course if necessary. Failure to officially withdraw from a course may result in the student's receiving a failing grade. If you stop attending the class or wish to drop the class you must drop yourself officially through the Office of Admissions and Records. *The last day to drop without a "W" is February 21st. The last day to drop with a "W" is May 8th.*

## **MISSED MIDTERMS/LATE HOMEWORK**

Midterm and homework due dates are denoted on the course calendar. If a student wishes to take a midterm at a time other than the regularly scheduled class time on the designated date, he/she must make arrangements *in advance*. Missed midterms for which no alternative arrangements have been made will result in scores of 0 pts. In the case of *extreme* circumstances, a missed midterm may be disregarded, and the sum of the remaining midterm scores scaled to compensate. *Homework submitted after the class meeting on the due date will earn scores of 0 pts.*

## **CALCULATORS**

Calculators are permitted in class and as verification for homework exercises. Calculators, cell phones, or other electronic devices are NOT permitted during exams. *Note: Using a calculator, cell phone, or other electronic device to store notes or formulas without the instructor's permission is a form of academic misconduct and may be subject to disciplinary action.*

## **CELL PHONES**

As a courtesy to the instructor and to other students, please turn off or silence (including vibration) cell phones during class.

## **STANDARDS OF CONDUCT**

All students are expected to conduct themselves with the highest standards of ethics and behavior. Neither cheating (including unauthorized cooperation on any graded assignment) nor infringement upon the rights of other students (such as persistent talking during lecture) will be tolerated.

## **ADULT CONTENT**

Please be advised that you have enrolled in a college-level course. The content of the course, and the discussions surrounding the lessons, may contain controversial, sexual, religious and political content, or otherwise thought-provoking topics. Your instructor reserves the right to edit inappropriate language that may appear in this course.

## **PLAGIARISM AND ACADEMIC DISHONESTY**

Plagiarism is the use of others' words and/or ideas without clearly acknowledging their source. When you incorporate those words and ideas into your own work, you must give credit where credit is due. Plagiarism, intentional or unintentional, is considered academic dishonesty and is not tolerated. Anyone found to be plagiarizing or cheating on exams will (1) receive a zero (fail) on the exam, and (2) be referred to the Vice President of Student Services or designee for further disciplinary action, following due process. For further information on plagiarism, go to the Writing Center website

(<http://www.lavc.edu/writingcenter/handouts/plagiarism.html>) and refer to the STANDARDS OF STUDENT CONDUCT AND DISCIPLINARY ACTION in the current Schedule of Classes and Catalog.

## **POLICIES AND PROCEDURES**

The stated schedule and procedures in this course are subject to change in the event of extenuating circumstances. Policies governing drop dates, penalties, plagiarism, incompletes, and academic honesty, as detailed in the Los Angeles Valley College Catalog will be observed.

## **SSD STUDENTS**

If you are a student with a disability requiring classroom accommodations, and have not contacted SSD, please do so in a timely manner. SSD is located in the Student Services Annex, Rm 175 or call SSD at 818-947-2681 or TTD 818-947-2680 to meet with an SSD counselor. If SSD has already sent a memo to confirming accommodations required for this class, please meet with your instructor to discuss the necessary arrangements.

## **FINANCIAL AID**

Financial Aid is available. Call (818) 947-2412. Go to the Financial Aid Office in the Student Services Center, first floor. For more info: <http://www.lavc.edu/financialaid/index.html>.

## **SUBJECT TO CHANGE**

Please be advised that this syllabus is subject to change at any time at the sole discretion of the instructor.

## **10 Simple Steps To Success In A Mathematics Course**

- |                           |   |
|---------------------------|---|
| 1 – No Whining            | 6 – Do the Homework                                 |
| 2 – Come to Class         | 7 – Take Responsibility for Your Work or Lack of It |
| 3 – Believe You Can Do It | 8 – Ask Questions                                   |
| 4 – Read the Book         | 9 – Be Aware of Your Performance                    |
| 5 – Study Every Day       | 10 – Keep Up the Effort All Term                    |

## Math Department Brochure

The Valley College Mathematics Department wants every student in each math class to have the maximum opportunity for success. Although we cannot guarantee this success, it has been our experience that students have a greater likelihood for improved class performance when they follow some simple guidelines:

1. **GET IN THE RIGHT MATH CLASSES AT THE START**

If you are new to the college, take the assessment test and follow the recommendation based on your performance on the test. Even if you have satisfied the prerequisites for the course you want to take, you might consider dropping back a level if you completed these prerequisites in high school, or if they were taken more than three years ago. If you are still uncertain about which math class you belong in, check with any math professor for advice. He or she will be glad to help you. Remember: you are only cheating yourself if you register for a math class for which you are unqualified.

2. **REGISTER EARLY**

Math classes, particularly at the lower levels, close early in the registration period. While trying to enroll in the college, you don't need the added stress of attempting to get into a closed class.

3. **BUY THE TEXTBOOK EARLY**

Check with the bookstore to see that you are buying the correct edition. Read the text before the start of the class to get some idea of what the course is all about, especially the table of contents.

4. **ATTEND ALL CLASS MEETINGS FOR THE ENTIRE PERIOD**

If you miss class, you may miss important information. Don't arrive late or leave early because it is distracting to the professor and to your fellow students to have people coming and going while instruction is taking place. Students who violate the College's attendance regulations are subject to exclusion from class. At times you may feel that you have a valid reason for missing class, but any time spent away from instruction will only detract from your overall achievement.

5. **MATH CLASSES REQUIRE CONSISTENT WORK EVERY DAY**

You should plan to spend at least two hours outside of school for every class hour working on math. At almost every class meeting, your professor will be assigning homework which should be completed by the next meeting. Because each new topic may use material from a previous topic, it is essential that you not get behind in your work. Don't expect to study for a test by "cramming" the night before the test.

6. **BE ALERT IN CLASS**

Take notes but not in such detail that you miss what is going on. Any material written on the board is important enough to be included in your notes. Ask questions in class if you don't understand a point. Other students might have the same question, but are afraid to ask. You are entitled to ask questions about the subject matter as long as you do not monopolize the class time. If your question isn't satisfactorily answered in class, see your professor during his/her scheduled office hour or at some other mutually convenient time. Also you can get help in the Math Lab (MS 106).

7. **HOMEWORK**

Before starting your homework, review your notes, fill in any gaps in them, and make needed corrections. Then read the pertinent portion of the text and study the illustrative worked-out examples. Try to identify the significant theory that is being introduced. Now you are ready to begin your homework.

8. **STUDYING WITH OTHERS**

Studying with others outside of class is a good idea. Not only can you clear up difficulties by learning from others, but you also strengthen your own knowledge when you explain something to someone else.

9. **DON'T BE DISCOURAGED**

Don't be discouraged if you don't immediately understand a new topic. Other students and your professor have had the same experience while learning math. Be persistent. You may have to reread your notes and the text or seek help from others to clear up difficulties.

10. **HAVE YOUR LIFE IN ORDER**

Maintain your personal relations, employment, and other outside activities in such a way that they don't interfere with your math studies. Get enough sleep at home so that you come to class refreshed and alert. Be sure you have dependable transportation to the College.

11. **MISCELLANEOUS**

You may not believe it, but every math professor wants you to succeed in his/her class. All of us went into math teaching because of a sincere desire to help others. If you find that for some reason you are not getting along with your professor, see the person privately in an effort to resolve the difficulty. If this meeting does not settle the problem, then see the Department Chairperson. However, to criticize the professor in class or in some other public setting is discourteous and will probably make getting what you want less likely.



## STUDENT

# QUICK START GUIDE

This Quick Start Guide provides information to help you start using WebAssign.

## ENROLL

Either your instructor enrolled you in a class and created a WebAssign account for you, or she gave you a class key to enroll yourself and create your own account, if needed.

### I have a class key

1. Go to [webassign.net/login.html](http://webassign.net/login.html) and click **I Have a Class Key**.
2. Enter the class key your instructor gave you and click **Submit**.
3. If the correct class and section is listed, click **Yes, this is my class**.
4. Either provide your existing WebAssign account information or create a new account.
  - Select **I already have a WebAssign account**, enter your account information, and click **Continue**.
  - Select **I need to create a WebAssign account**, enter the requested information, and click **Create My Account**.

### I do not have a class key

You are already enrolled and can log in with your WebAssign account.

## LOG IN

These instructions apply for most schools. Some schools use alternative login sites.

1. Go to [webassign.net/login.html](http://webassign.net/login.html).
2. Type your **Username**, **Institution** code, and **Password**.  
If you did not receive a password, click **Forgot your password** and create a password.
3. Click **Log In**.
4. If you are enrolled in more than one class, select a class from the **My Classes** menu.

**NOTE:** The first time you log in, change your password.

## PURCHASE ACCESS

WebAssign gives you free access for two weeks after the start of class. To continue using WebAssign after that, either enter an access code or purchase access online.

**NOTE:** An Access Code included with some textbooks verifies that you have already purchased WebAssign access.

### I have an access code

If you purchased an access code card, do not reveal the access code until you verify that the access code prefix is valid for your class at [webassign.net/user\\_support/student/cards.html](http://webassign.net/user_support/student/cards.html).

1. Log in to WebAssign.
2. Select **enter an access code**.
3. Select your access code prefix.
4. Enter your access code and click **Continue**.

### I do not have an access code

1. Log in to WebAssign.
2. Select **purchase access online** and click **Continue**.
3. Select items, confirm any license agreements, and click **Enter payment information**.
4. In the PayPal page, provide your payment and contact information and click **Continue**.
5. Review your order and click **Complete purchase**.
6. Close your receipt and start working in WebAssign.

## LEARN

Your current assignments are listed on the **Home** page for each class.

1. Click the assignment name.
2. Answer the assignment questions.  
WebAssign supports many different question types. Some questions display a tools palette or open in a new window.
3. Submit your answers.
4. Review your marks and feedback.  
Usually you will see ✓ or ✗ for each answer.
5. Change your incorrect answers and submit again.
6. When you are done, always click **Log out**.

## SYSTEM REQUIREMENTS

WebAssign is tested and supported for the following Web browsers:

**Mozilla® Firefox® (38+)**  
Windows®, Mac® OS X, Linux®  
**Internet Explorer® / Microsoft® Edge (11+)**  
Windows  
**Google® Chrome™ (44+)**  
Windows, Mac OS X  
**Apple® Safari® (8+)**  
Mac OS X, iOS 8 or later on iPad®

## BROWSER SETTINGS

Configure the following settings in your Web browser.

- Allow cookies and pop-up windows from [webassign.net](http://webassign.net).
- If you are accessing WebAssign from Blackboard®, accept third-party cookies.
- Do not allow your browser to store your WebAssign password.

## CUSTOMER SUPPORT

**HELP:** From the application, click

**ONLINE:** [webassign.com/support-request](http://webassign.com/support-request)

**CALL:** (800) 955-8275

The WebAssign Customer Support staff **CANNOT**:

- change your username or password
- give extensions
- change your score
- give you extra submissions
- help you with the content of assignments
- resolve problems with PayPal payments

## PAYPAL SUPPORT

**ONLINE:** [paypal.com](http://paypal.com)

**CALL:** (402) 935-2050

## MORE INFORMATION

Search the online help for answers to most questions: [webassign.net/manual/student\\_guide/](http://webassign.net/manual/student_guide/)

<b>Institution</b>	LAVC
<b>Instructor</b>	George Caleodis
<b>Section</b>	MATH 267, section (no name)
<b>Class Key</b>	lavc 7909 9379

LAVC - MATH 267 – Calculus with Analytic Geometry III – Spring 2016 – George Pete Caleodis

<i>Monday</i>		<i>Tuesday</i>		<i>Wednesday</i>		<i>Thursday</i>	
<b>Feb 8</b>	§12.1	<b>9</b>	§12.2	<b>10</b>	§12.3	<b>11</b>	§12.4
<b>15 – Presidents' Day</b> no class		<b>16</b>	§12.4	<b>17</b>	§12.5 W.A. <u>§12.1-12.3 due</u>	<b>18</b>	§12.5
<b>22</b>	§12.6	<b>23</b>	§12.6	<b>24</b>	review W.A. <u>§12.4-12.6 due</u>	<b>25</b>	<b><u>TEST 1</u></b>
<b>29</b>	§13.1	<b>Mar 1</b>	§13.2	<b>2</b>	§13.3	<b>3</b>	§13.3
<b>7</b>	§13.3	<b>8</b>	§13.4	<b>9</b>	review W.A. <u>§13.1-13.4 due</u>	<b>10</b>	<b><u>TEST 2</u></b>
<b>14</b>	§14.1	<b>15</b>	§14.2	<b>16</b>	§14.3	<b>17</b>	§14.4
<b>21</b>	§14.4	<b>22</b>	§14.5	<b>23</b>	§14.6 W.A. <u>§14.1-14.4 due</u>	<b>24</b>	§14.7
<b>28</b>	§14.8	<b>29</b>	review W.A. <u>§14.5-14.8 due</u>	<b>30</b>	<b><u>TEST 3</u></b>	<b>31 – Cesar Chavez Day</b> no class	
<b>SPRING BREAK</b>							
<b>Apr 11</b>	§15.1	<b>12</b>	§15.2	<b>13</b>	§15.2	<b>14</b>	§15.3
<b>18</b>	§15.3	<b>19</b>	§15.4	<b>20</b>	§15.5 W.A. <u>§15.1-15.4 due</u>	<b>21</b>	§15.5
<b>25</b>	§15.6	<b>26</b>	§15.7	<b>27</b>	§15.8	<b>28</b>	§15.9
<b>May 2</b>	§15.10	<b>3</b>	§15.10	<b>4</b>	review W.A. <u>§15.5-15.10 due</u>	<b>5</b>	<b><u>TEST 4</u></b>
<b>9</b>	§16.1	<b>10</b>	§16.2	<b>11</b>	§16.3	<b>12</b>	§16.4
<b>16</b>	§16.5 W.A. <u>§16.1-16.4 due</u>	<b>17</b>	§16.6	<b>18</b>	§16.7	<b>19</b>	§16.8
<b>23</b>	review W.A. <u>§16.5-16.8 due</u>	<b>24</b>	<b><u>TEST 5</u></b>	<b>25</b>	review	<b>26</b>	review
<b>FINAL EXAM WEDNESDAY, JUNE 1, 10:30AM – 12:30PM</b>							