



## *MAT 212 Brief Calculus Spring 2011*

**Section :** 52374

**Where:** Online

**Instructor:** Dr. Phil Clark

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**Web Page:** <http://www.drphilclark.com>

**In order to get started in this course** log in to your Scottsdale Community College Blackboard account, click the link for MAT 212 and go to **START HERE**.

The address for Blackboard is <http://ecourses.maricopa.edu/webapps/portal/frameset.jsp>

### **Instructor Welcome**

Hello and welcome to MAT212 online offered through Scottsdale Community College. My name is Dr. Phillip G Clark, but you can call me Phil or Dr. Clark (please no Dr. Phil, ☺). I am looking forward to working with you during this course. To find out more about me and how you can reach me, use the instructor link from the course page in blackboard.

This will be a challenging class in an online format, but it is doable if you keep up with the coursework and stick with the schedule. Falling behind will only make this course more difficult. Contact me if a situation arises which compromises your ability to complete this course in a timely manner.

Ok, I want you to get on with the syllabus so please read it carefully and if you have any questions contact me.

Phil

### **Syllabus Summary**

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## Required Items

### Webassign

- You must purchase a Webassign account to take this class (\$47).
- In order to purchase a code go to [www.webassign.net](http://www.webassign.net)
- Once you register you will use the class key: **scottsdalecc 9215 7615**
- An account must be created by the third week of the semester and you must be actively working on the assignments or you will be withdrawn from the course
- See the Webassign instructions in the assignment section of the syllabus in Blackboard

### Calculator

- A graphing calculator is required for this course. The suggested calculators include the TI-83 or TI-83 plus and the TI-84. NOTE: Calculators with QWERTY keyboards or those which do symbolic algebra (e.g. TI-92s, TI-89s, Casio FX2 or 9970G's) cannot be used during an exam.
- You are responsible for knowing how your calculator works! There are also links to help with the calculator on Blackboard.
- If you forget your calculator the day you take your midterm or final, you may check one out from the math/science center.
- You can try to rent a TI calculator from Student Life & Leadership (office in the student lounge/cafeteria). These go quick and are in limited supply.

### Computer

- You will need regular access to a computer (with online connection) in order to complete the online homework and online modules that are part of this course.
- If you do not have a computer at home, the labs and computer locations on campus may be used to access your online work (BU133 lab, library, student center, LC lab, math tutoring center).

### Email

- You will need a working email address that you check regularly.
- This email address is the one that you should use to create your Webassign account.
- I do send regular class announcements and information via email which will be sent to your SCC email. Information about your SCC email account can be found here:  
<http://plone.scottsdalecc.edu/technology/email-account/?searchterm=google%20email%20student>
- You cannot change your email in Blackboard so if you have another email you would like to use have your gmail forwarded to that email address.

### SCC Network Login Account

- Used to access computers on campus
- Information on setting up your SCC Network Access:  
<http://plone.scottsdalecc.edu/its/services/helpdesk/scc-networkaccess-qrg-windows.pdf>

## Optional Items



### Textbook

- The text book that will guide the course and from which online homework will be assigned is Finite Mathematics and Applied Calculus - 4e by Waner and Costenoble, ISBN-10:0-495-38427-5
- The textbook is not required for this course but can be purchased online from any of the following sites as a hard copy: [www.amazon.com](http://www.amazon.com), [www.half.com](http://www.half.com), [www.textbooks.com](http://www.textbooks.com)
- It can be purchased as an ebook from [www.coursesmart.com](http://www.coursesmart.com), [www.ichapters.com](http://www.ichapters.com)
- It is not necessary to purchase the book as you will still have access to individual chapters online through Webassign. Details are in the assignments section of Blackboard.

## Submission of Work for the Course

### Online Modules

- There are mini-lessons located on blackboard that include comprehension questions. As you progress through the lesson you are earning points by correctly answering these questions. Upon completion you should submit your work typing in your full name and clicking the email scores button. You can attempt the lessons as many times as you want if you are not satisfied with your initial score, but be sure to submit your score when you are done. You can also print out a copy for your records. You can improve your score up until the last day of class. These mini-lessons will be posted under the **Go to Class** link in Blackboard.

### Online Homework

- Online homework will be done through Webassign and your results will be stored in Webassign and then imported into your grade in Blackboard. Assignments are all located in Webassign and a link can be found under the Assignments link in Blackboard.
- Due dates are posted in Webassign and you must complete the homework for full credit. You can request extensions in Webassign if you are unable to complete the assignment by the due date. Points earned during an extension period are only recorded at 75% of their actual value. There are more details about this in Webassign.

### Written Work (if assigned)

- Any written work assigned during the semester will appear under the Assignments tab and can be turned in by any of the following ways:
- Fax (480) 423-6449
- Scanner with option to scan document to .pdf file (please keep file sizes small if possible)
- Turn in a photo-copy of your work at the math/science office
- Other appropriate option that you and I discuss and agree upon

### **Exams**

- There will be 2 exams (midterm and final) that must be taken in person at a testing facility
- The testing center on campus at Scottsdale Community College is one such facility. You can find information about the testing center here: <http://www.sc.maricopa.edu/testingcenter/>
- Rio Salado Community College has a number of local testing sites. You can find more information about the RSCC testing center here: <http://www.riosalado.edu/testing/Pages/default.aspx>
- The following website contains a list of testing facilities around the country: <http://www.ncta-testing.org/cctc/find.php>
- Note that many of these facilities charge a small fee for their testing services which will be the responsibility of the student.
- If you will be using a testing center other than the one at Scottsdale Community College, it is your responsibility to make the appropriate arrangements

## **Instructor Information**

Dr. Phillip G. Clark (not Dr. Phil!)

Phone: (480)425-6754

- I check my voicemail when I am in my office, but email is the best way to get a hold of me.

Email: [phil.clark@sccmail.maricopa.edu](mailto:phil.clark@sccmail.maricopa.edu)

- I check my email both in my office and from home so this is the best way to get in touch with me.

I am very committed to student success. Please take advantage of all the resources available to you. If you have a question, do not hesitate to ask myself or your fellow classmates through the discussion board located in blackboard. I also appreciate feedback on the course and your experience. This can help shape the class for future students.

## **Student Resources**

### Math/Science Center

- Located in CM 441A (Northeast corner of the CM building)
- 480-423-6145
- Tutor center coordinator- Greg Skrivanek
- (greg.skrivanek@sccmail.maricopa.edu)
- Drop in math tutoring in an open study lab with help available
- Calculator Assistance/Math Videos & DVDs/Setting for small group work
- Check website for current semester hours:
- <http://www.scottsdalecc.edu/mathscience/tutoring/index.html>

### Disability Resources

College policy requires that students with documented disabilities be provided with reasonable accommodations to assist them in the learning environment. If you would like to request such accommodations, please contact the Disability Resources office, SC-114, at (480) 423-6517  
<http://www.scottsdalecc.edu/disabled/>

## **Skills Required**

- Internet navigation skills
- Basic calculator use

## Class Structure and Grading

Category	Percentage of Total Grade
Mini-Lessons	15%
Homework	35%
Midterm Exam	25%
Final Exam	25%

Category	Description
Mini-Lessons	<ul style="list-style-type: none"> <li>• Links to mini lessons are located in Blackboard under Go To Class Link</li> <li>• These lessons should be completed before starting the homework</li> <li>• Scores for mini-lesson can be improved up until the last day of class</li> <li>• These lessons contain important concepts for the topics covered</li> </ul>
Homework	<ul style="list-style-type: none"> <li>• Online homework is assigned through Webassign</li> <li>• Problems may be attempted until correct up until the due date for the assignment</li> <li>• Score will be imported into Blackboard</li> </ul>
Midterm Exam	<ul style="list-style-type: none"> <li>• There will be a midterm that will cover the first 3 modules of the course</li> <li>• This will be taken in the testing center on Scottsdale Community College campus</li> <li>• It is necessary to complete the midterm in order to pass the course</li> </ul>
Final Exam	<ul style="list-style-type: none"> <li>• There will be a comprehensive final at the end of the semester</li> <li>• This will be taken in the testing center on Scottsdale Community College campus</li> <li>• It is necessary to complete the final exam in order to pass the course</li> </ul>

### Evaluation Criteria

Online Modules (15%)	Each online module contains comprehension questions which are worth points. These questions are automatically scored and your score is kept as you progress through the lesson. Once you have completed the lesson and are satisfied with your score you should submit your score as described in the introduction video under the Go To Class section in blackboard. Online module totals are based on the number of questions in the module.
Homework Assignments (35%)	Homework assignments are located in Webassign and are automatically scored as you progress through the homework. You can submit answers up to 50 times per question to get full credit for that question. Assignments are worth varying totals based on the number of questions and the amount of points each question is worth.
Midterm (25%)	The midterm consists of 5 true/false questions, 25 multiple choice questions, and 1 short answer question. The true/false and multiple choice are each worth 1 point and the short answer is worth 4 points.
Final (25%)	The final consists of 33 multiple choice questions which are all equally weighted.

### Grading Scale:

- A (90% and above)
- B (80%–89.99%)
- C (70%–79.99%)
- D (60%–69.99%)
- E (below 60%)

**Grades will be updated regularly and will be visible in the Blackboard gradebook. Check your grade often to track your progress through the course.**

## **Official Course Description and Competencies**

### Maricopa County Community College District Official Course Description

MAT212 Brief Calculus 3 credits 3 periods

Introduction to the theory, techniques and applications of the differential and integral calculus of functions with problems related to business, life, and the social sciences. Prerequisites: Grade of “C” or better in MAT150, or MAT151, or MAT152, or MAT187 or equivalent, or satisfactory score on District placement exam.

#### Course Competencies:

1. Find derivatives of functions using both the definition and theorems.
2. Use the derivative to solve and analyze application problems related to business, life, and the social sciences.
3. Use technology to model, solve, and analyze problems related to real-world applications.
4. Find the integral of functions using theorems.
5. Use the integral to solve and analyze application problems related to business, life, and the social sciences.
6. Find derivatives of functions using both the definition and theorems.
7. Use the derivative to solve and analyze application problems related to business, life, and the social sciences.
8. Use technology to model, solve, and analyze problems related to real-world applications.
9. Find the integral of functions using theorems.

#### **How to Succeed in this Online Course**

If this is your first online class, you are in for a different kind of learning experience. Students often have the perception that online classes are easier and cover less material. Neither of those is true. In fact, online classes are more difficult due to the lack of structured class time. The biggest reason students drop out of online classes is they get behind and do not complete the work. So, what can you do to make sure you complete this class with flying colors? The following list should give you some ideas:

- Make sure you are familiar with the syllabus and course requirements.
- Log in to the Blackboard site (every day if possible) and be sure to “Go To Class”.
- Obtain your Webassign access code right away, create your account, and get started on your first assignment.
- Try to stay ahead of the due dates and use any extra time to rework assignments before the due date to get the maximum possible points.
- Check with me often if you have questions or need assistance with any of the course topics.
- Get to know one or more of your classmates and interact with them concerning course related issues. This can be done via the discussion board in Blackboard.
- Use the resources and online textbook to increase your understanding of the math topics and get help when you need it.
- Take notes and work all problems on pencil/paper (don’t just plug answers into the computer).
- Be sure you earn the minimum scores on homework and quizzes at first then go for 100% on each of them!
- Turn in all assignments on or before their due dates.
- Keep up with the course schedule and contact me anytime with questions or comments.

**BEST OF LUCK TO YOU!!!!**

## **Policies You Should be Aware of**

Students enrolled in this course are responsible for the information in this syllabus as well as the policies listed in the college catalog and student handbook.

### Attendance

- If you fail to log in to Blackboard or Webassign and complete significant work on the course for a 7 day period you may be withdrawn from the course

### Withdrawal

- Withdrawal Dates
  - Students who do not take the midterm will be withdrawn from the course
  - For dates go here: <http://www.scottsdalecc.edu/academics/dates-deadlines>

Please contact me if there is some situation that prevents you from making any of the above deadlines. If you are considering withdrawing, feel free to contact me for advice.

If you do not meet the policies above, you will be withdrawn from the course. You must take both the midterm and final in order to pass the course. If you take both the midterm and final, you will receive a grade for the course (you cannot be withdrawn).

## **Academic Misconduct**

The current SCC College Catalog has a large section concerning penalties for academic misconduct (a.k.a....cheating). I won't spend a lot of extra time on this topic here other than to say, "Don't Do It!" For our class, this policy mostly relates to our midterm and final exams. If you are caught cheating, you can be expelled from SCC.

Work together or with others on your online HW, Quizzes, and Tests but do so judiciously. Remember that YOU are the one who must perform on the midterm and final (which count for a large portion of your grade). If you get too much help with assessments along the way, you will not be as well able to stand on your own for the midterm and final.

## **Schedule**

- There is a schedule for the semester located on the Schedule link in Blackboard
- The schedule of course assignments can be seen under the Calendar link in Webassign

**Honor Policy:** The highest standards of academic integrity are expected of all students. The failure of any student to meet these standards may result in suspension or expulsion from the College or other sanctions. Violations of academic integrity include, but are not limited to, cheating, fabrication, tampering, plagiarism or facilitating such activities.

**Disclaimer:** The instructor reserves the right to modify this syllabus to better meet the needs of the class.

## Expectations

The following are what you can expect of me as your instructor and what I expect of you as my students.

You can expect me to:

- Create a learning environment that supports your effort to learn mathematics
- Be available and on time for office hours
- Respond to your questions in a timely manner
- Provide feedback and grade assignments in a fair, impartial and timely manner
- Be available for individual consultation either in person, by phone or by email
- Clarify assignments and ensure that adjustments to the syllabus or schedule are made clear
- Be courteous and respectful to you both as a human being and as a learner of mathematics
- Support you in your efforts to succeed in this class

In return I expect you to:

- Log in to the online materials regularly
- Participate in online discussions in an appropriate and respectful manner
- Read and follow instructions carefully and complete assignments on time
- Maintain academic and personal integrity
- Be courteous to both myself and your classmates
- Be responsible for the information in this document as well as the policies of the school
- Put forth your best effort
- Maintain a knowledge of your standing in the class
- Contact me IMMEDIATELY if any situation comes about that could interfere with your success in this course
- Register with Disability Resources if you require special accommodation

## Webassign

- All online homework and quizzes will be done through Webassign
- You will need to go to <https://www.webassign.net/login> to register and for subsequent log ins to complete assignments
- Once you register you will use the class key: **scottsdalecc 9215 7615**
- Once logged in you will see the assignments
- After your initial set up of your account you have 14 days to pay the registration fee otherwise your account will be deleted
- Detailed information on logging in to and using Webassign can be found under the Course Documents link in Blackboard

## Textbook

- The text book that will guide the course and from which online homework will be assigned is Finite Mathematics and Applied Calculus - 4e by Waner and Costenoble
- It is NOT required that you purchase this book (purchasing options were mentioned above)
- The online homework will come from this book and when you access an online homework problem through Webassign, you have access to that section of the book
- There is a short video in the homework section that demonstrates this
- If you want a hard copy you can purchase the book as a whole or individual chapters

