



MAT 150 College Algebra Spring 2012

Section : 37204

Where: SL114/Online

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In order to get started in this course go to my website (above) and under courses there is a link to MAT150 Hybrid

Instructor Welcome

Hello and welcome to MAT150 hybrid 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 a hybrid 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

IMathAS

- You must open a IMathAS account in order to do homework for this course
- In order register go to <http://mathas.scottsdalecc.edu>
- Once you register you will use the class key:
 - Course ID: 95
 - Enrollment Key: clark
- An account must be created by the beginning of the 2nd week of the semester and you must be actively working on the assignments or you will be withdrawn from the course

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.
- 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

- There are two text books for the course. They are Precalculus: An Investigation of Functions by Lippman and Rassmussen and College Algebra - by Stitz and Zeager
- The textbooks is can be downloaded for free at <http://www.opentextbookstore.com/precac/> and http://www.stitz-zeager.com/Precalculus/Stitz_Zeager_Open_Source_Precalculus.html
- There is also a link to the combined books on the class website containing the sections we will be covering.

Submission of Work for the Course

Online Lessons

- There are online lessons located on website that include comprehension questions. As you progress through the lesson you are earning points by correctly answering these questions. You will need to bring a certificate of completion showing you received a 70%. Upon completion you should submit your work typing in your full name and clicking Print Score Summary. You must bring this certificate of completion to class in order to get credit. You can attempt the lessons as many times as you want if you are not satisfied with your initial score. Once you have submitted your certificate you can continue to improve your score until the last day of class.
- There are online lessons consisting of multiple choice, matching, and short answer questions to help with learning the content to prepare students for the questions in the online homework.

Online Homework

- Online homework will be done through IMathAS and your results will be stored in IMathAS and then imported into your grade in Blackboard. Assignments are all located in IMathAS and a link can be found under the Assignments link in Blackboard.
- Due dates are posted in IMathAS and you must complete the homework for full credit. You can request a LatePass in IMathAS if you are unable to complete the assignment by the due date. Points earned during a LatePass period are only recorded at 75% of their actual value. You have a total of 10 LatePasses for the semester and you must apply it before the time the homework is due to get a 24 hour extension.
- There are homework assignments for each of the 11 sections and they will be due

In Class Projects

- There will be in class assignments each class
- These must be completed in class and will be checked for completeness
- This will count towards your participation grade

Quizzes

- There will be a quiz each class
- They will be based on IMathAS homework and main components of the previous class' lesson
- After the quiz is graded you can do corrections to earn up to 50% of the points missed

Exams

- There will be 2 exams (midterm and final) that must be taken in person. Both exams are pencil and paper exams consisting of multiple choice questions.
- The midterm will be taken in our regular classroom on Thursday, March 8, 12-2:05.
- If you are unable to make that time you must use a testing center. 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 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>
- If you will be using a testing center, it is your responsibility to make the appropriate arrangements. Note that many of these facilities charge a small fee for their testing services which will be the responsibility of the student.

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

- 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

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.

Category	Percentage of Total Grade
Online Lessons	10%
Homework	25%
In Class Projects	5%
Quizzes	20%
Midterm Exam	20%
Final Exam	20%

Category	Description
Online Lessons	<ul style="list-style-type: none"> • Links to online lessons are located on the course webpage • These lessons should be completed before each class • Online lessons contain multiple choice, matching, and short answer questions regarding their content that must be answered in order to score points • Scores for online lessons can be improved up until the last day of class • These lessons contain important concepts for the topics covered • Online lesson scores are based on number of questions in lesson • You must get 70% in order to get a certificate of completion
Homework	<ul style="list-style-type: none"> • Online homework is assigned through IMathAS • Problems may be attempted until correct up until the due date for the assignment • Score will be imported into Blackboard • There are 12 assignments relating to the 11 lessons of the course and one review assignment
In Class Projects	<ul style="list-style-type: none"> • We will do projects and worksheets each class • These will be checked for completion
Quizzes	<ul style="list-style-type: none"> • There will be a quiz each class • The quizzes will be based on the material from the previous class and accompanying homework • Once graded you can earn up to 50% of points missed by doing corrections • Corrections will be due by the Thursday after quizzes are returned
Midterm Exam	<ul style="list-style-type: none"> • There will be a midterm that will cover the first 6 lessons of the course • This will be taken on Thursday, May 8 in our regular classroom during our regular meeting time • It is necessary to complete the midterm in order to pass the course
Final Exam	<ul style="list-style-type: none"> • There will be a comprehensive final at the end of the semester • This will be taken in the classroom during our scheduled time • It is necessary to complete the final exam in order to pass the course

Evaluation Criteria

Online Modules (10%)	Each online lesson 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 print out your Score Summary and bring it to class. After you have submitted your certificate of completion you can continue to improve your score until the last day of class. Online module totals are based on the number of questions in the module.
Homework Assignments (25%)	Homework assignments are located in IMathAS and are automatically scored as you progress through the homework. You will have an unlimited number of attempts at each question up until the assignment is due. Assignments are worth varying totals based on the number of questions and the amount of points each question is worth. Questions done during a LatePass will only be scored at 75% of their actual value.
In Class Projects (5%)	In class projects will be graded for completion. They should be completed in class and will be checked before you leave.
Quizzes (20%)	Quizzes will be worth 20 points each and will be given every class. They will be graded and returned the following class meeting. Then corrections, if necessary, can be completed for up to 50% of the points missed. Corrections will be due by the Thursday after they quizzes are returned
Midterm (20%)	The midterm is a paper and pencil exam which consists of multiple choice questions. The true/false and multiple choice are all equally weighed.
Final (20%)	The final is a paper and pencil exam which consists of 40 multiple choice questions which are all equally weighted.

Official Course Description and Competencies

Maricopa County Community College District Official Course Description

MAT150 College Algebra / Functions

Analysis and interpretation of the behavior and nature of functions including polynomial, rational, exponential, logarithmic, power, absolute value, and piecewise-defined functions; systems of equations, modeling and solving real world problems. Additional topics may include matrices, combinatorics, sequences and series, and conics.

Prerequisites: Grade of C or better in MAT120, or MAT121, or MAT122, or equivalent, or satisfactory score on District placement exam.

Course Note: Students may receive credit for only one of the following: MAT150, MAT151, MAT152, or MAT187.

MCCCD Official Course Competencies:

1. Analyze and interpret the behavior of functions, including end behavior, increasing and decreasing, extrema, asymptotic behavior, and symmetry.
2. Solve polynomial, rational, exponential, and logarithmic equations analytically and graphically.
3. Find real and complex zeros of polynomial functions analytically and graphically.
4. Graph polynomial, rational, exponential, logarithmic, power, absolute value, and piecewise-defined functions.
5. Determine domain and range of polynomial, rational, exponential, logarithmic, power, absolute value, and piecewise-defined functions.
6. Use transformations to graph functions.
7. Perform operations, including compositions, on functions and state the domain of the resulting function.
8. Determine whether a relation is a function when represented numerically, analytically, or graphically.
9. Determine whether a function is one-to-one when represented numerically, analytically, or graphically.
10. Determine the inverse of a relation when represented numerically, analytically, or graphically.
11. Classify functions by name when represented numerically, analytically, or graphically.
12. Determine regression models from data using appropriate technology and interpret results.
13. Read and interpret quantitative information when presented numerically, analytically, or graphically.
14. Justify and interpret solutions to application problems.
15. Compare alternative solution strategies.
16. Calculate and interpret average rate of change.
17. Model and solve real world problems.
18. Solve systems of three linear equations in three variables.
19. Solve systems of linear inequalities.
20. Communicate process and results in written and verbal formats.

How to Succeed in this Hybrid 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.
- Obtain your IMathAS access 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

- As the class only meets once a week, students are expected to be at every class meeting
- Attendance is mandatory to receive participation/project credit

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 course webpage
- The schedule of course assignments can be seen under once logged into IMathAS

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