

Item #6296
8 – 8:50m M-F

Math 097
Spring 2010

Intermediate Algebra
30-211

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Course Description: (5 credits) Coordinate plane, functions, equations, inequalities, properties of lines, radical expressions, quadratic equations, system of non-linear equations.

Course Objectives: *The student will be able to ...*

- Know key terms related to the coordinate plane, graph points and lines in the rectangular coordinate system by hand.
- Understand the concept of functions, know the different ways of describing a function, determine domain and range of functions, and evaluate functions.
- Solve linear equations and application problems.
- Solve linear, compound, and system of inequalities.
- Solve absolute value equations and inequalities.
- Understand the concept of slope, recognize the different forms of the equation of lines, write equations of lines, and create linear models from a given data.
- Understand complex numbers and perform basic operations with complex numbers.
- Simplify and perform operations on radical numbers or expressions, and solve equations involving radical expressions.
- Solve quadratic and rational inequalities.
- Solve application problems related to the topics listed above.
- Know when and how to use the graphing calculator to evaluate or graph functions.
- Know and apply the different methods of solving quadratic equations: factoring, taking the square root, completing the square, and quadratic formula.

Text: Academic Systems *Personal Academic Notebook* (PAN). The PAN may be obtained from the instructor. The cost is included in the \$96.60 fee for the course. Bring the book to class.

Prerequisite: Math 091 with a minimum grade of 1.7 or COMPASS algebra score of 47.

Calculators: No graphing calculator is required for this course since there is a grapher built into the computer. However, you may find a TI-83/4 helpful. Furthermore, the graphing calculator may be required in subsequent courses. Calculators may be rented from the math department on a first come first serve basis. To rent a calculator, pay the rental fee at the cashier in building 6 and then submit the form to me.

Attendance: Attendance will be taken as a formal part of your grade. Attendance may be taken more than once in a class period to encourage prompt attendance and discourage early departure. Attendance quizzes may also be given in lieu of taking formal attendance.

Homework: There are two types of homework for each section – online and paper pencil. Each will be weighted equally toward your grade.

i. Online homework

a. Online homework must be completed for each section and is due by midnight the day after you are scheduled to complete the section and the day before you turn in your paper pencil work.

b. Missed or incomplete assignments may be given a grade of zero (depending upon the assignment). Your lowest assignment will be dropped from your grade.

ii. Paper pencil homework - The format and grading criteria for homework is as follows.

a. **Which Problems?:** The course calendar lists the homework that should be done each day after class. There are three subsections of homework in each section.

(a) *Homework* Do every sixth problem beginning with three: 3, 9, 15, ... the solutions are in the back of the PAN.

The problems are: _____

(b) *Apply* (Practice Problems). Do every sixth problem beginning with three: 3, 9, 15, ... the solutions are in the back of the PAN.

(c) *Evaluate* (Practice Test). Do every problem. All of the solutions are given.

b. **Format:** Write your name, the date, and the section in the upper-right corner. Multiple page assignments should be numbered. Each problem should be clearly labeled with the problem number. Your work should be done neatly in pencil and you should generously space each problem.

c. **Grading:** Your homework will be graded for completion in answers and work. Missed assignments will be given a score of zero. Your assignment with the lowest score will be dropped from your grade. *Late assignments will not be accepted.*

Evaluates: The Academic Systems course has computer-based “Evaluates” at the end of each section. These are similar to section quizzes.

i. Each section begins with a “Pre-test.” I recommend that you skip over the pre-test until you have completed the section. At this point, you may take the pre-test as practice for the evaluate. If you score 95% on the pre-test, it will count as your evaluate score.

ii. Be aware that you cannot exit the program in the middle of an evaluate, so avoid starting one at the end of class.

iii. The Academic Systems program will allow you to take each evaluate a maximum of three times (the test changes slightly each time), with only the highest score counting towards your grade. I understand the desire to keep working on a single section until you “get it right.” But, I need to help you recognize when you must move on, regardless. For that reason, evaluates must be completed prior to each exam.

Tests: There will be four tests given during the quarter.

i. The tests will be cumulative, but will emphasize the material covered since the last test.

ii. If a score of less than 70% is earned on an exam, you must meet with your instructor prior to taking subsequent exams. In these conversations, personalized learning plans may be developed.

iii. If you miss a test, a score of 0% will be assigned. All tests must be taken during the scheduled class time. *No make-up tests.*

iv. Spoken and written communication as well as sharing of calculators during exams is prohibited.

Final Exam: A comprehensive final exam will be held in the regular class meeting room. The date and time for the final exam may be found in the online quarterly schedule. The final exam is mandatory and a grade of 0.0 may be assigned at the instructor’s discretion to those who fail to take the final exam.

Grading: Attendance: 5%, Online Homework: 10%, PAN (Paper Pencil) Homework: 10%, Evaluates: 10%, Exams: 40%, Final Exam: 25%. GPA’s will be given according to the following scale:

95-100%	4.0	%%%	GPA	%%%	GPA	%%%	GPA	%%%	GPA
93-4%	3.9	81%	3.1	73%	2.3	65%	1.5	57%	0.7
91-2%	3.8	80%	3.0	72%	2.2	64%	1.4	56%	0.6
89-90%	3.7	79%	2.9	71%	2.1	63%	1.3	55%	0.5
87-8%	3.6	78%	2.8	70%	2.0	62%	1.2	54%	0.4
85-6%	3.5	77%	2.7	69%	1.9	61%	1.1	53%	0.3
84%	3.4	76%	2.6	68%	1.8	60%	1.0	52%	0.2
83%	3.3	75%	2.5	67%	1.7	59%	0.9	51%	0.1
82%	3.2	74%	2.4	66%	1.6	58%	0.8	0-50%	0.0

Policies and Notes:

- i. **Attendance:** You are responsible for all material covered in class including all announced changes to the schedule and assigned course work. (If you miss class, *you* are still responsible for everything in class).
- ii. **Cell Phones:** The use of cell phones, pagers, and palm pilots in class is strictly prohibited. Failure to comply may result in your removal from the classroom. Following one warning, you may be asked to leave the class (and/or be marked absent) if you make or receive phone calls within the class period. Ringers should be turned off.
- iii. **Food and Drink** – Since you will be working at a computer station nearly every day, food and drinks are not allowed in the classroom, with one exception: if necessary, you may use a water bottle which has a pop-up spout or straw. There is a water fountain down the hall that you may use during class time.
- iv. **Internet Usage:** The computers are for math only purposes. Should you use the computers for any other purpose you may be asked to leave the class (and/or be marked absent). This includes computer usage in the time slot between classes. There will be one warning given.
- v. **Equipment:** The equipment in the classroom belongs to the college. As a student in this course, you are allowed to use the computer and headphones in this lab during class. You may use the open labs upstairs if you want to work at other times. Theft of the headsets will lead to higher course fees in the future.
- vi. **Music:** There will be no listening to music during class time. In my experience, there is a strong correlation between those listening to music (on MP3, CD, etc.) and failure in Academic Systems. Non-compliance may result in removal from the classroom (and/or you may be marked absent). There will be one warning given.
- vii. **Conduct:** This is an academic classroom. Your instructor, classmates, and classroom should be treated with respect. Disregard for this policy will result in your being asked to leave the classroom. You will also be marked absent.
- viii. **Corrections:** Changes and corrections to grading must take place during the week following the original distribution of the graded material. It is your responsibility to confirm accurate grading and bring it to my attention in a timely fashion.
- ix. **Math Resource Center:** Math materials, study space, and math tutoring help is available in 26-319H. Some of my office hours will take place in the MRC.
- x. **Academic Dishonesty:** Cheating, plagiarism, and other forms of academic dishonesty are unacceptable at Highline Community College and may result in lower grades and/or disciplinary action. It is both your right and responsibility to be familiar with the document entitled: Student

Rights and Responsibilities code WAC 132I-1210 adopted by the Board of Trustees of Community College District 9 on December 13, 2007. This is available in the counseling center.

- xi. **Special Concerns:** If you have any special concerns about this class, please talk to me personally in my office. The more I know about you individually, the more I can help you be successful in this course. If you need course adaptations or accommodations because of dis-Ability; if you have emergency medical information to share with me; or if you need special arrangements in case the building must be evacuated, please provide me with the Letter of Accommodation you have received from the Office of Access Services. Access Services is located in Building 6 in the Student Development Center.
- xii. **Important Dates:** The last day to drop without incurring a “W” and the last day to officially withdraw with a “W” are listed in the quarterly.

Logging into the IC Computers and Academic Systems: How do I start?

- IC Account Activation
 - Your account for logging in to computers in IC labs requires account activation.
 - Log in to any lab workstation with username myinfo, with password myinfo.
 - You will be taken to the MyInfo login page. Choose the Activation link.
 - Enter your Student ID, ZIP code (from your address on file with Registration), and date of birth, then click **Next**
 - Enter and confirm your email address, and enter and confirm your new password.
 - After confirmation, close the browser and log out of the workstation.
 - Log into the computer using your IC username and new password.
 - Determine your username and password
 - Usernames (*Plato name*)
 - Your username for will consist of the first seven (7) letters of your first name and the first seven (7) letters of your last name. For example:
 - Tom Jones would be **tomjones**
 - Mikhail Barishnikov would be **mikhailbarishn**

Your username: _____
 - Passwords
 - Your *initial password* will consist of the first four (4) letters of your last name and the last four (4) numbers of your Student ID. The first character is capitalized. For example:
 - Tom Jones with ID# 880654321 would have the password **Jone4321**
 - Mikhail Barishnikov with ID# 880456789 would have the password **Bari6789**

Your password: _____ (may be changed for security)
- Open *Academic Systems* by clicking on the globe icon and log in using your username and password as previously determine. For example, Dusty Wilson with SID 880-12-3456 would log in as:

The screenshot shows a login form with three fields: 'Account Login', 'PLATO Name', and 'Password'. The 'Account Login' field contains 'Highline' and has a handwritten arrow pointing to it with the text 'the same for everyone' above it. The 'PLATO Name' field contains 'dustywilson'. The 'Password' field contains 'Wils3456' and has a handwritten arrow pointing to it with the text 'this shows *****' above it.