

MATH 1300-1301 Linked Course (Intermediate Algebra & College Algebra)

INSTRUCTOR: Bonnie Blumberg

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OFFICE HOURS: Monday, Tuesday, Wednesday and Thursday 8:00– 8:30 in S729,
Mondays & Wednesdays 11:30 – 12:00 S729 and 12:00 – 1:00 in N925, and by appt.

WHY YOU ARE IN THIS COURSE: To qualify for this course, you must have a TSI Math placement score 336 – 349 or have passed Math 0300 with a grade of A or B. Like many students at UHD, your placement test results indicate that your arithmetic and algebra skills are not sufficiently developed for you to pass one of the core college level mathematics courses required of all students at UHD (such as MATH 1301). MATH 1300 is a developmental course intended to help build your mathematical skills up to the college level so that you can take the Math 1301 College Algebra in the last half of the semester after you have passed the Math 1300.

ABOUT THIS COURSE: This class links Math 1300 Intermediate Algebra with Math 1301 College Algebra. Students register for 6 hours of Math – 3 hours that are developmental and 3 hours that are college level. This class meets every day, Monday – Thursday. We will work only on Math 1300 starting the first day until the class takes the Math 1300 final exam Monday, October 13th at 8:00 am (a 2 hour departmental comprehensive exam). Starting October 14th, those students who passed Math 1300 with an average of 70 or better will work on Math 1301 until students take the Math 1301 final exam during regularly scheduled final exams. Those students not passing Math 1300 with an average of 70 or better by October 14th will be required to drop Math 1301 and work in class with Math 1300 worksheets and online work for the rest of the semester. They will be given another opportunity to take the Math 1300 final exam again during regularly scheduled final exams and will only have an opportunity to earn 3 hours of developmental credit.

TEXTBOOK: (MATH 1300) *Beginning and Intermediate Algebra*, Fifth Edition, by Elayn Martin-Gay, Pearson Prentice Hall, Upper Saddle River, NJ, 07458. Math 1300 students are REQUIRED to purchase the MyMathLab computerized homework system (unless they previously used it in Math 1300 at UHD). The Math 1301 e-book and MyMathLab access code will be provided to Math 1301 students by the Math department October 14th. Any student wanting to purchase a book may do so. The Math 1301 textbook is: *Essentials of College Algebra with Modeling and Visualization*, Fifth Edition, by G. Rockswold, Addison Wesley, Boston, MA, 2014 (book bundled with MyMathLab).

WHERE TO FIND COURSE RESOURCES: The first place to seek assistance and resources is from me, both inside and outside of class. The times and locations where I am available for office hours to work with you outside of class are listed above, and also posted outside my office door S729. Next, students enrolled in MATH 1300 and 1301 at UHD have access to the Center for Math & Statistics (formerly called the Math Lab) in the Academic Support Center (925-N) where they may get additional tutoring with understanding concepts or improving their skills. The Center is staffed with mathematics faculty and student assistants, and offers tutorial help, videos, calculators, and computer access on a walk-in basis. The Center for Math & Statistics maintains extensive hours, including nighttime hours and Friday AND Saturday hours. You are encouraged to visit the Center for Math & Statistics throughout the semester whenever you feel you need extra help, no appointment required. It is also an excellent place to study the textbook and work on homework problems, so that you can receive immediate answers to your questions as necessary. You may also get help from S405, the SI lab from your SI or any SI. VISIT THE UHD ALGEBRA STUDENT WEB PAGE FOR MORE INFORMATION: <http://cms.uhd.edu/qep/algebra> Here, you will find the final exam reviews!

CALCULATOR USE: Students in Math 1300 are allowed to use a basic 6-function calculator on tests and the final exam. Students in Math 1301 are required to have a calculator with log and ln functions.

TENTATIVE EXAM SCHEDULE:

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| • Exam 1 Math 1300: Thursday, September 4 | Exam 1 Math 1301: Tuesday, October 21 |
| • Exam 2 Math 1300: Thursday, September 18 | Exam 2 Math 1301: Thursday, October 30 |
| • Exam 3 Math 1300: Thursday, September 25 | Exam 3 Math 1301: Monday, November 17 |
| • Exam 4 Math 1300: Wednesday, October 8 | Exam 4 Math 1301: Tuesday, November 25 |
| • Final Exam Math 1300: Monday, October 13 | Final Exam Math 1301: |

MAKE-UP POLICY: There will be absolutely no make-up tests or quizzes. Any missed grades are recorded as zeroes, so attendance counts (See Attendance Policy, a separate handout)! If you miss a test due to an emergency, you must notify me promptly in writing with documented evidence. In such case, the final exam will be counted for the missing test or the missing test grade may be the dropped grade.

USING MYMATHLAB: To supplement what is done in class, your instructor will require an online resource called MyMathLab. In order to use MyMathLab, you must purchase a Student Access Code from the UHD Bookstore (bundled with new textbook or sold separately) or purchase it online at <http://www.mymathlab.com>. If you purchased a MyMathLab code for MATH 1301 last semester (i.e. you are repeating the class), you DO NOT need to purchase a new code this semester. Your account will still be active, but you will need to enroll in a new section. You can use MyMathLab on any computer that has Internet access. If you do not have a computer at home with Internet access, you can log into MyMathLab from a UHD computer, print out the MyMathLab assignment, work through the exercises on paper, and then enter the answers in MyMathLab when you are next on campus. To register with

MyMathLab, you will also need a valid email address – use one that you regularly check. You must register with MyMathLab at <http://www.mymathlab.com> only the first time that you use it. (1) The course ID number will be given to you by your instructor. (2) The zip code for UHD is 77002. (3) You will then create a Login Name and Password which you will use to log in whenever you use MyMathLab at <http://www.mymathlab.com>. Make sure to record your exact login name and password for future logins. *Note:* The computers in the Center for Math & Statistics (formerly called the Math Lab) in N925, the Academic Computing Labs (S800, C300, B200), the PLTL (Peer Led Team Learning) Lab (S738), and the SI Lab (S405) can be used to access MyMathLab. You may also bring your laptop because UHD is wireless.

METHOD OF EVALUATION and EXTRA CREDIT:

- All online homework and quizzes are due the day of the test. **Those students completing the online homework and quizzes on or before the test day with an average of 90 or better will receive 10 points extra credit!**
- The final exam grade is worth 30% of your semester grade. Students must make a grade of 50 or better on the final exam to be able to pass the class. The comprehensive final exam contains all multiple choice questions to be taken on a scantron. Anyone not taking the Final Exam in class will receive a grade of “F” for the course!
- The online homework and quizzes are worth approximately 20% of the grade, and the best 3 of 4 exams are worth 50% of the grade.

GRADING SCALE:

Math 1300 students: “A” is 90 – 100, “B” is 80 – 89, “C” is 70 – 79, and “IP” or “F” is below 70.

Math 1301 students: “A” is 90 – 100, “B” is 80 – 89, “C” is 70 – 79, and “D” is 60 – 69, and “F” is below 60.

Students not taking the final exam will receive an “F” for the semester. Students violating the Attendance Policy will receive an “F” for the course, regardless of their average. Students not getting at least a 50 on the final exam cannot pass the class!

DROPPING THE COURSE: Please note that the last day to withdraw from a course with a grade of “W” is **October 30th (6:00 pm)**. If you do not complete the course requirements and do not officially withdraw, you will receive a grade of “F”. You cannot receive the grade of “I” (Incomplete) unless you have a documented personal emergency that prevents you from completing the last fraction of the course. You must have a passing average on the work you have already completed to receive an “I”. If you do not pass Math 1300 with a grade of C or better, you must drop Math 1301 before **October 21st** (the day of the first test in Math 1301)

ATTENDANCE: An attendance policy is enforced for this class. Attendance will be taken on a daily basis, starting the **FIRST** day of class. Your failure to attend class or make contact with the faculty to adequately explain your absence by the 10th class calendar day of the semester will result in you being administratively dropped from this course. Being dropped from this course may affect your enrollment status and/or your financial aid availability. If a student misses the equivalent of more than 6 hours of class during the semester, the instructor will notify the MS department office that the student is in violation of the Attendance policy and can receive a grade of F (and in Math 1300, the student is ineligible for the IP). **If you do not take the final exam you will receive a grade of "F" for the course.**

HONESTY CODE: Please remember that as a member of the UHD academic community you are bound to observe the academic honesty code in all your school work. A grade of “0” will be given for any course work where cheating is detected. Failure to report a dishonest act is also categorized as “Academic Dishonesty” in the UHD Student Handbook.

EXCESS COURSE ATTEMPTS: In accordance with state law, effective Fall 2004, UHD is charging a fee of \$65 per semester credit hour for enrollment in a developmental course after 18 hours of developmental work has already been attempted. Once 18 hours of developmental course work has been accumulated, registration in a developmental course will result in the additional charge. An attempt is defined as an enrollment that results in a letter grade (including “S”, “U”, “IP”, and “W”). A developmental course is defined as Math 0300, Math 1300, ENG 1300, ENG 130A, and RDG 1300.

STATEMENT ON REASONABLE ACCOMMODATIONS: UH-Downtown complies with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, pertaining to the provision of reasonable academic adjustments/auxiliary aids for students with a disability. In accordance with Section 504 and ADA guidelines, UHD strives to provide reasonable academic adjustments/auxiliary aids to students who request and require them. If you believe that you have a documented disability requiring academic adjustments/auxiliary aids, please contact the Office of Disability Services, One Main St., Suite 409-South, Houston, TX 77002. (Office) 713-226-5227 (Website) www.uhd.edu/disability/ (Email) disabilityservices@uhd.edu

Math 1300 GOALS: At the completion of this course, a student should be able to: (1) factor out the greatest common factor from a polynomial; (2) factor binomials and trinomials using standard techniques; (3) use the Zero Factor Theorem to solve equations; (4) solve quadratic equations in one variable by the methods of factoring, the Square Root Property, and the Quadratic Formula; (5) solve various geometric and real-world word problems involving quadratic functions; (6) simplify rational expressions and utilize the fundamental principle of rational expressions; (7) perform basic operations to combine rational expressions; (8) solve rational equations and identify those with no solution; (9) solve proportions and proportional word problems; (10) simplify complex fractions; (11) compute the slope of a line; (12) recognize the equation of a straight line and determine the equation of a line from information such as: given two points on the line, or, one point on the line and the slope of the line; (13) state and use the relationship between the slopes of parallel and perpendicular lines; (14) determine the domain and range of a relation; (15) recognize functions expressed

as graphs, formulas, or tables, and evaluate expressions involving function notation; (16) evaluate and simplify square and cube roots, compute n th roots, and approximate roots; (17) write radicals using rational exponents and vice versa; (18) simplify and combine radical expressions using the basic operations and the rules for exponents, and rationalize denominators and numerators in radical expressions; (19) find the distance between two points in the plane by using the appropriate formulas; (20) solve equations containing radicals and use the Pythagorean Theorem to model problems.

Math 1301 GOALS: At the end of the course, a student should be able to: (1) write complex numbers in standard form and perform the four elementary operations with complex numbers; (2) solve quadratic equations in one variable by the methods of factoring, extraction of roots, completing the square, and the Quadratic Formula; (3) properly use function notation and inverse function notation and interpret its meaning in context; (4) recognize the equation of a straight line and determine the equation of a line from information such as: given two points on the line, or, one point on the line and the slope of the line; (5) state and apply the definition of a function, determine the domain and range of a function, evaluate expressions involving functional notation, simplify expressions involving the algebra of functions, and given a function find its inverse, if it exists; (6) solve problems involving direct and inverse variation; (7) graph linear functions and quadratic functions by hand; (8) recognize the important features of graphs of polynomial functions and piecewise-defined functions; (9) find the vertex and intercepts of a parabola; (10) state the fundamental properties of polynomial functions; (11) solve quadratic inequalities, state the solution using interval notation and graph the solution; (12) state the inverse relationship between exponential and logarithmic functions, graph both types, use properties of logarithms to rewrite expressions, and solve exponential and logarithmic equations; (13) solve absolute value equations and inequalities; (14) solve systems of equations in three variables by algebraic techniques; (15) state and use the relationship between the slopes of parallel and perpendicular lines; (16) interpret the meaning of the slope of a line in context; (17) interpret the meaning of function intercepts in context; (18) compute midpoints and apply the Midpoint Formula to interpolate and extrapolate.

MATH SUCCESS TIPS:

- Be on time and attend every class session.
- Do all assigned homework problems and review with the textbook problems for each section!!
- Try not to fall behind. In fact, try to stay ahead!
- Ask questions in class whenever you feel yourself starting to get lost!
- Check the online grade book so that you are aware of your average throughout the semester.
- Read the textbook (often more than one time) after I have introduced the lesson and before you start your homework – IT IS VERY HELPFUL! Work through the examples and compare your solutions with the book.
- Get in the habit of first writing the entire problem, and then clearly and legibly write each step in solving the problem and clearly write out the solution. Writing helps catch faulty thinking!
- Sit in the front of the class to avoid distraction.
- Use the Math Lab (N-925) for tutoring with all homework.
- Watch the videos for each section located in “Multimedia” of MyMathLab for review or additional explanation.
- Become part of a small group (3-4) that meets to do homework together in the math lab and study for exams.
- Obtain the phone number or email address of a classmate in case of absence to keep up with any assigned work or due dates.
- Study for all tests – try preparing study sheets and reviewing with classmates.
- Attend the Final Exam Review (usually on a Reading Day - to be announced later) and bring with you a hard copy of the review with as many problems worked as possible.
- Use my office hours for homework questions or academic questions as they arise.
- Do not get up during class or leave early unless you inform the instructor ahead of time. Plan ahead - use the restroom, get water, etc. before class begins or wait until it is over.