# SYLLABUS FOR MATH 1300 (Intermediate Algebra) – Fall Semester 2016 8:30 MATH 1300

**Instructor: Bonnie Blumberg** **Email:** nadlerb@uhd.edu

**Office: S-729** **Office Phone: (713)221-8408** **Website: http://cms.uhd.edu/Faculty/NadlerB**

**OFFICE HOURS: MONDAYS 8:00– 8:30am in S729, 1:15 – 2:00 in S729**
**TUESDAYS 8:00– 8:30am in S729, 11:15 – 12:00 in S729, and 12:00 – 2:00 N925**
**WEDNESDAYS 8:00– 8:30am in S729, 1:15 – 2:00 S729**
**THURSDAYS 8:00– 8:30am in S729**

**COURSE DESCRIPTION**: This course is designed to provide the students with basic background in arithmetic and algebraic skills needed for business, liberal arts, social and behavioral sciences, natural sciences, engineering, computer science and mathematics courses. A survey of pre-college algebra topics including factoring, the Cartesian Coordinate System, systems of first-degree equations in two variables solved by graphical and algebraic means, exponents and radicals, and word problems.

**PREREQUISITE**: This is a 3-credit course with a prerequisite of passing math 0300 with a "C" or better or placement by exam.

**TEXTBOOK:** *Beginning and Intermediate Algebra* 6th edition, by Elayn Martin - Gay, Pearson Prentice-Hall, Upper Saddle River, New Jersey, 2017 or the UHD Customized Edition, and *My Math Lab* - **REQUIRED** (see below).

**COURSE RESOURCES:** The first place to seek assistance and resources is from your instructor, both inside and outside of class. My office hours are listed above to work with you outside of class. Next, students enrolled in MATH 1300 at UHD have access to the Center for Math & Statistics (formerly called the Math Lab) in the Academic Support Center (N925) where they may obtain additional tutoring with understanding concepts or improving their skills. The Center is staffed with mathematics faculty and student assistants, and offers tutorial help, videotapes, calculators, and computer access on a walk-in basis. The Center maintains extensive hours which are published each semester. You are encouraged to visit the Center throughout the semester whenever you feel you have time to work there - 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 from tutors as necessary. The accompanying online homework component, MyMathLab, at www.mymathlab.com provides numerous help resources such as chapter pretests, exercise examples, and self-quizzes. The multimedia online library contains section lecture videos, animation examples, PowerPoint slides, test prep videos corresponding to each textbook chapter test, and a multimedia textbook.
VISIT THE UHD ALGEBRA STUDENT WEB PAGE FOR MORE INFORMATION: **http://cms.dt.uh.edu/qep/algebra** . Here you will find the Math 1300 Final Exam Review and other resources.

**CALCULATOR USE**: You are allowed to use a scientific calculator on the final exam (a non-programming, non-graphing calculator - no cell phone or other electronic device), but no problem REQUIRES the use of a calculator.

**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)! 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.

**ONLINE HOMEWORK (MML):** 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 www.mymathlab.com. If you purchased a MyMathLab code for MATH 0300 or 1300 last semester, 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. It is preferable that you use Google Chrome to access MyMathLab. 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 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 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 can:

- Complete and submit homework assignments online;
- Check out your MyMathLab homework grades and other course grades in the Gradebook;
- View a complete online version of the textbook and look at multimedia sources such as online video clips that accompany the textbook, and much more.

Please contact me immediately if you have any problems with the website. You may bring your laptop because UHD is wireless. Studying and completing the homework problems from the list of suggested textbook homework problems in the syllabus is the best way to study for an exam in addition to completing all online homework by the exam date. **5 points extra credit on the test is given to those students that have completed ALL online homework for that chapter with a grade of 90 or above by each exam date. An additional 5 points extra credit will be given if the quizzes for that test period are at 90 or better.**

**IN-CLASS ACTIVITIES (GROUP WORK):** Over the course of the semester, there will be several in-class assignments which can be done in groups. On that day when an in-class assignment is given, the assignment will count as the roll sheet. Be sure to turn in your assignment even if it is incomplete to be counted as present!

**METHOD OF EVALUATION:**

- Three (3) of four major in-class exams at 100 points each will be counted as 39%.
- In-class Activities and MML online homework assignments and quizzes (*MyMathLab*) will be 28% of your grade. All online homework is due the day of the test.
- The final exam grade is worth 33% of your semester grade. The comprehensive final exam contains all multiple choice questions to be taken on a scantron. If the final exam score is less than 50, regardless of the course average, a grade of "F" or "IP" will be given.

The grading scale is: **90 and above A, 80 - 89 points B, 70 - 79 points C, and 69 points or below IP (In Progress) or F.**
These grades will appear on student transcripts, but will not be calculated into the GPA. **Students not taking the final exam will receive an "F" for the semester. Students not making a final exam score of 50 or better cannot pass the class.**

Students violating the Math 1300 Attendance Policy will receive an "F" for the course, regardless of their average. Students attending class but not making a genuine effort to pass (as evidenced by not turning in assignments on time, not participating in class, not seeking help outside of class, etc.) will receive an "F" for the course, regardless of their average.

**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.

**SUPPLIES NEEDED:**

- *My Math Lab* (listed above) – REQUIRED!
- A 3-ring binder to keep all notes, daily sheets, homework, and exams
- The textbook (listed above) - optional
- Graph Paper

**DROPPING THE COURSE:** Please note that the last day to withdraw from a course with a grade of "W" is October 31st **(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".

**ATTENDANCE:** Your failure to attend class (face to face or hybrid), engage course material (Online only), or make contact with faculty to adequately explain your absence by the 10th class day of the semester will result in your being administratively dropped from this course. Being dropped from this course may affect your enrollment status and/or your financial aid eligibility. If a student misses the equivalent of more than 6 hours of class, the instructor will notify the MS department office that the student is in violation of the Attendance Policy. Students that violate the Attendance Policy are not eligible to receive a grade of "IP" if they are not passing the class. They must receive a grade of "F" for the course. Students who are attending regularly and completing in-class assignments as well as online homework and quizzes but still are not passing the course will receive a grade of "IP". **If you do not attempt the final exam you will receive a grade of "F" for the course (departmental rule).**

| *Math 1300 Chapters* | *Sections* |
|---|---|
| **Chapter 6** | **6.1 The Greatest Common Factor and Factoring by Grouping** |
| **Factoring Polynomials** | **6.2 Factoring Trinomials of the Form $x2+ bx + c$** |
| | **6.3 Factoring Trinomials of the Form $ax2+ bx + c$ and Perfect Square Trinomials** |
| | **6.4 Factoring Trinomials of the Form $ax2+ bx + c$ by Grouping** |

| | |
|---|---|
| | **6.5 Factoring Binomials** |
| | **6.6 Solving Quadratic Equations by Factoring** |
| | **6.7 Quadratic Equations and Problem Solving** |
| **Chapter 7** | **7.1 Rational Functions and Simplifying Rational Expressions** |
| **Rational Expressions** | **7.2 Multiplying and Dividing Rational Expressions** |
| | **7.3 Adding and Subtracting Rational Expressions with Common Denominators and Least** |
| | **Common Denominator** |
| | **7.4 Adding and Subtracting Rational Expressions with Unlike Denominators** |
| | **7.5 Solving Equations Containing Rational Expressions** |
| | **7.6 Proportion and Problem Solving with Rational Equations** |
| | **7.7 Simplifying Complex Fractions** |
| **Chapter 3** | **3.4 Slope and Rate of Change** |
| **Lines and** | **3.5 Equations of Lines** |
| **Introduction to Functions** | **3.6 Functions** |
| **Chapter 10** | **10.1 Radicals and Radical Functions** |
| **Rational Exponents,** | **10.2 Rational Exponents** |
| **Radicals, and** | **10.3 Simplifying Radical Expressions** |
| **Complex Numbers** | **10.4 Adding, Subtracting, and Multiplying Radical Expressions** |
| | **10.5 Rationalizing Denominators and Numerators of Radical Expressions** |
| | **10.6 Radical Equations and Problem Solving** |
| **Chapter 11** | **11.1 Solving Quadratic Equations by Completing the Square** |
| **Quadratic Equations and Functions** | **11.2 Solving Quadratic Equations by the Quadratic Formula** |

**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 development-al 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.

**SATISFACTORY PROGRESS POLICY FOR DEVELOPMENTAL COURSES:**

- **PLACED ON ACADEMIC NOTICE (AN):**
  - If you receive an IP (In Progress) in this course, you may enroll in a maximum of 12 credit hours the next semester (You must re-enroll in the same course until satisfactorily passed.).

- If you receive two or more IP's in the same semester in different courses, you may enroll in a maximum of 9 credit hours the next semester (You must re-enroll in the same course until satisfactorily passed.).

- **PLACED ON DEVELOPMENTAL PROBATION (DP):**
  - If you receive an F in this course, or four IP's over four semesters in the same course
    - You may enroll in a maximum of 9 credit hours the next semester (You must re-enroll in the same course until satisfactorily passed).
    - You must also enroll in an extra course (Math 1201-Math Success Lab) to help you pass the developmental course the next semester
    - You are required to meet with an assigned advisor on a regular schedule (at least 3 times during the semester)
- **PLACED ON DEVELOPMENTAL ACADEMIC SUSPENSION (DS):**
  - If you earn two consecutive grades of F or a fifth IP in the same course
    - You cannot enroll at UHD for one long semester
    - You must reapply for readmission to UHD before you can enroll
- **THE APPEALS PROCESS** - If you are placed on DS status and believe an exception should be made for you, then submit in writing your reasons to your academic advisor (the Dean of University College will make the final decision).

**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

**INTERMEDIATE ALGEBRA SUCCESS TIPS:**

- Be on time and attend every class session.
- Do all assigned online homework problems & optional textbook assignments 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!
- Keep track and record ALL grades so that you can be 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 those in 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 Center (N-925) for tutoring with all homework.
- Watch the video of each section located in the "Multimedia" section of *My Math lab*
- 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.
- 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.
- Do not get up or leave the room during an exam! Always be on time for all exams!

**Please make a commitment to:**

**1) ATTEND class regularly**

**2) DO online homework @ 90% or better by the test date**

**3) COMPLETE the textbook homework by the test date**

**WHY? Because 90% of students who do the above three things PASS the class!!!**

Math 1300 8:30

# Pearson's MyLab & Mastering Online Homework System Student Registration Instructions

To register for **Math 1300 (1st 8 wks) CRN13369 8:30am (Do not use Explorer – Google Chrome works best!)**:

1. Go to www.pearsonmylabandmastering.com or www.mymathlab.com

2. Under Register, select **Student**.

3. Confirm you have the information needed, then select **OK! Register now**.

4. Enter your instructor's course ID: **blumberg38195**, and **Continue**.

5. Enter your existing Pearson account **username** and **password** to **Sign In**. You have an account if you have used a Pearson product, for example: MyITLab, MyPsychLab, MySpanishLab or Mastering, such as MasteringBiology.

If you don't have an account, select **Create** and complete the required fields. Fill in the email address you check most often! **Write down your username and password** because you will use it for all your courses that require Pearson.

6. Select an access option. Use the access code that came with your textbook or that you purchased separately from the UHD Bookstore or online at www.mymathlab.com. Use a credit card or PayPal account if you plan to buy the access from the website.

If available, get **14 days temporary access.** (The link is near the bottom of the screen.)

7. From the confirmation page, select **Go To My Courses**.

8. On the **My Courses page**, select the course titled **Math 1300 (1st 8 wks) CRN13369 8:30am** to start your work.

**To sign in later**:

1. Go to www.pearsonmylabandmastering.com or www.mymathlab.com

2. Select **Sign In**.

3. Enter your Pearson account **username** and **password**, and **Sign In**.

4. Select the course title **Math 1300 (1st 8 wks) CRN13369 8:30am** to start your work.

**To upgrade temporary access to full access**:

1. Go to www.pearsonmylabandmastering.com or www.mymathlab.com

2. Select **Sign In**.

3. Enter your Pearson account **username** and **password**, and **Sign In**.

4. Select **Upgrade access** from the course title **Math 1300 (1st 8 wks) CRN13369 8:30am**.

5. Enter an **access code** or purchase access with a credit card or PayPal account.

For a registration overview, go to **www.pearsonmylabandmastering.com/students/get-registered**. Scroll down to **Need a little help?** and select a video.

## Need technical support? Call (toll-free) 844-292-7015

Math 1300 (1st 8-wks) Fall 2016 Calendar

| Date | Math 1300 Section Covered |
|---|---|
| Aug 22 | 6.1 |
| 23 | 6.2, 6.3 |
| 24 | 6.2, 6.3 |
| 25 | 6.4, 6.5 |
| 29 | 6.6 |
| 30 | 6.7 |
| 31 | Math 1300 Test 1 |
| Sept 1 | 7.1 |
| 5 | Holiday |
| 6 | 7.2 |
| 7 | 7.3 |
| 8 | 7.4 |
| 12 | 7.5 |
| 13 | 7.6 |
| 14 | 7.7 |
| 15 | Math 1300 Test 2 |
| 19 | 3.4 |
| 20 | 3.5 |
| 21 | 3.6 |
| 22* | Math 1300 Test 3 |
| 26 | 10.1 |
| 27 | 10.2 |
| 28 | 10.3 |
| 29 | 10.4 |
| Oct 3 | 10.4 |
| 4 | 10.5 |
| 5 | 10.6 |
| 6 | Math 1300 Test 4 |
| 10 | 11.1 |
| 11 | 11.2 |
| 12 | Review |
| 13 | Math 1300 Final Exam |

*Last day to Withdraw from a course with a grade of "W"

*Revised: Fall 2012*

# Math 1300 - Intermediate Algebra
## Suggested Textbook Homework
## for Beginning and Intermediate Algebra, 5th Edition, Elayn Martin – Gay

| SECTIONS | READ PAGES | SUGGESTED PRACTICE PROBLEMS |
|---|---|---|
| 6.1 | 374 – 380 | 1 – 10 VRC, 1 – 21 EOO*, 23 – 37 odd, 43 – 61 odd, 69 – 77 odd, 81, 85, 87, 94, 95, 97, 98 |
| 6.2 | 382 – 386 | 1 – 10 VRC, 1 – 13 odd, 19, 21, 23, 27 – 55 EOO, 65 |
| 6.3 | 389 – 395 | 2 – 6 VRC, 1 – 13 odd, 17, 19, 23, 25, 35, 39, 41, 47, 55, 57, 59, 63, 65, 75, 81 |
| 6.4 | 397 – 401 | 1 – 4 VRC, 1 – 11 odd, 15, 17, 27, 43, 46 |
| 6.5 | 402 – 406 | 2, 4 – 6 VRC, 1 – 9 odd, 15 – 21 odd, 37, 41, 43, 49, 61, 63, 77 |
| 6.6 | 412 – 419 | 1 – 4 VRC, 1 – 7 odd, 11, 19, 23, 25, 27, 37, 49, 51, 55, 59, 65, 67, 77, 79, 83 |
| 6.7 | 421 – 426 | 1 – 7 odd, 8, 9, 10, 12 – 16, 21, 23, 31, 35, 39 – 42, 61 |
| 7.1 | 440 – 446 | 1, 2, 4 – 8 VRC, 17 – 39 odd, 45, 51, 55, 57, 77, 79 |
| 7.2 | 451 – 457 | 1 – 5 VRC, 1 – 47 odd, 51, 53, 87, 89 |
| 7.3 | 460 – 465 | 1 – 5 VRC, 1 – 37 EOO, 39 – 47 odd, 53 – 67 odd |
| 7.4 | 468 – 471 | 1 – 4 VRC, 1 – 57 EOO, 59 – 67 odd, 75, 77 |
| 7.5 | 474 – 478 | 1 – 23 odd, 25 – 41 EOO, 43 – 51 odd, 67, 68, 71 |
| 7.6 | 482 – 490 | 3 – 8 VRC, 1 – 19 odd, 29, 31, 55, 56, 65, 71, 73 |
| 7.7 | 495 – 499 | 1 – 2 VRC, 1 – 13 odd, 17, 19, 29 – 31 odd |
| 3.4 | 202 – 211 | 1 – 17 odd, 23 – 32, 33 – 57 odd , 63 – 69 odd |
| 3.5 | 217 – 223 | 1 – 2 VRC, 1 – 35 odd, 41, 43, 45, 47 |
| 3.6 | 226 – 233 | 1 – 6 VRC, 1 – 61 odd |
| 10.1 | 587 – 592 | 1 – 8 VRC, 1 – 11 odd, 19 – 43 odd, 47 – 53 odd, 57 – 71 odd, 79, 85, 88 |
| 10.2 | 596 – 600 | 1 – 6 VRC, 1 – 21 odd, 27 – 37 odd, 43, 47 – 55 odd, 61, 65 |
| 10.3 | 603 – 609 | 1 – 4 VRC, 1, 3, 7, 15, 31, 35 – 43 odd, 47, 49, 63, 67 – 70, 77 – 81 odd, 119 |
| 10.4 | 611 – 614 | 5 – 10 VRC, 1, 2, 3, 5, 7, 9, 17 – 29 EOO, 47, 49, 53, 61, 63 |
| 10.5 | 617 – 621 | 1 – 4 VRC, 1 – 11 odd, 17, 19, 25, 41, 43, 49 |
| 10.6 | 624 – 629 | 1 – 4 VRC, 1 – 15 odd, 23 – 41 odd, 51 – 56 |
| 11.1 | 652 – 659 | 1 – 2 VRC, 1, 5, 9, 11, 17, 23 |
| 11.2 | 662 – 668 | 1 – 6 VRC, 1, 3, 5, 7, 19, 25 |

***EOO stands for every other odd. For example, if the assignment is 1 – 17 EOO, you would do 1, 5, 9, 13, and 17.**
**VRC stands for Vocabulary and Readiness Check**

# "Math Classroom Etiquette Rules"

1. Go to the restroom before class.

2. Unless you become suddenly ill or you notify me before class, remain in class until <u>dismissed</u> by me.

3. Cell phones should be turned off and put away. No electronic earpieces that are not medically necessary are allowed.

4. Check the calculator policy to see what kind can be used in class!

5. No web surfing. Do not work on the online homework during class unless you are directed by your instructor or you are in Math 1201 or CSP 110M.

6. No sleeping - if you get drowsy, ask if you may use the restroom to splash water on your face.

7. If you are taking a test, do not get up for any reason unless you have completed your test! If you get up I will assume you have finished your test and I will take it up!

8. If you are late on test day, you will not be able to take the test after the first person has completed an exam.

**Testing Numbers To See If They Are Evenly Divisible By…**

| | |
|---|---|
| 0 | Undefined! No number can ever be divided by zero!! |
| 1 | All numbers are divisible by 1! |
| 2 | Even numbers – numbers ending in 0, 2, 4, 6 or 8 |
| 3 | Add up the digits! If the sum of the digits is divisible by 3, then the number is too. |
| 4 | If when you divided the original number by 2 the quotient (result) was even or if the last 2 digits are divisible by 4. |
| 5 | If the number ends in 0 or 5 |
| 6 | If the number is divisible by both 2 and 3 |
| 7 | No divisibility test for 7! |
| 8 | If when the original number was divided by 4 the quotient (result) was even or if the last 3 digits are divisible by 8. |
| 9 | Add up the digits! If the sum of the digits is divisible by 9, then the number is too. |
| 10 | The number ends in 0. |
| 11 | Double digits for all numbers less than 100. |

# ALGEBRA SUCCESS TIPS

- **Be on time and attend every class session.**
- **Read & highlight the syllabus the day it is given out. Refer to it often & bring to class**
- **Do all assigned homework problems the day the section is covered in class!!**
- **Try not to fall behind. In fact, try to stay ahead!**
- **Ask questions in class whenever you feel yourself starting to get lost!**
- **Keep track and record ALL grades so that you can be aware of your average throughout the semester.**
- **Read the textbook (often more than one time) after the instructor has introduced the lesson and before you start your homework – IT IS VERY HELPFUL! Work through the examples and compare your solutions with those in 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) and the SI Lab in S405 (check hours) for tutoring with all homework.**
- **Watch the video of each section located in the "Multimedia" section of *My Math lab***
- **Become part of a small group (3-4) that meets to do homework together in the math lab and study for exams together.**
- **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 or index cards and reviewing with classmates.**
- **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.**
- **Do not get up or leave the room during an exam! If you are late on the exam day and at least 1 person has already completed the exam, the instructor does not have to give you the exam (then your grade will be a zero!)!**

# Math 1300 Course Formulas

**Pythagorean Thm:** $a^2 + b^2 = c^2$

**Slope:** $m = \dfrac{y_2 - y_1}{x_2 - x_1}$ **(Start with the same pt. for each subtraction)**

**Distance:** $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

**Quadratic:** $x = \dfrac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

**Point-Slope Form:** $y = y_1 + m(x - x_1)$ **(Not required to know)**

**Slope-Intercept Form:** $y = mx + b$

**Square Root Property:** If $a^2 = b$, then $a = \pm\sqrt{b}$ **(Chapter 11)**

**Fractional Exponent:** $a^{m/n} = \left(\sqrt[n]{a}\right)^m$

**Negative Exponent:** $a^{-n} = \dfrac{1}{a^n}$

**Zero Exponent:** $a^0 = 1$

# Multiplication Table

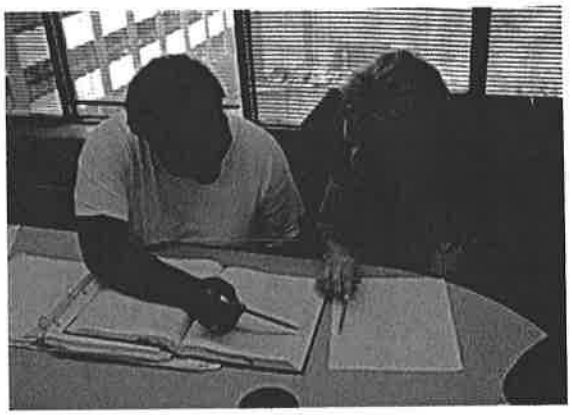
## Multiplication Table

| x | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **1** | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| **2** | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
| **3** | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 |
| **4** | 0 | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 |
| **5** | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 |
| **6** | 0 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 |
| **7** | 0 | 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63 | 70 | 77 | 84 |
| **8** | 0 | 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 | 80 | 88 | 96 |
| **9** | 0 | 9 | 18 | 27 | 36 | 45 | 54 | 63 | 72 | 81 | 90 | 99 | 108 |
| **10** | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |
| **11** | 0 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | 110 | 121 | 132 |
| **12** | 0 | 12 | 24 | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 | 132 | 144 |

# NEED TO IMPROVE YOUR MATHEMATICS?
# WANT FREE TUTORING?

## Come visit the Math Lab in N-925 and get help in the following Math classes:

*Beginning Algebra (MATH 0300)*
*Intermediate Algebra (MATH 1300)*
*College Algebra (MATH 1301)*
*Plane Trigonometry (MATH 1302)*
*Pre Calculus (MATH 1404)*
*Finite Math (MATH 1305)*
*Fundamentals of Calculus (MATH 1306)*
*College Mathematics for Liberal Arts (MATH 1310)*



Instructor and peer tutoring.
Videos are available for viewing and to check out.
Calculators & textbooks available for in-lab use.
Computers available for online homework.

## HOURS OF OPERATION

Mon – Thurs 8 am – 8 pm
FRIDAY 8-2 & Saturday 11-5

Sponsored by Computer and Mathematical Sciences Dept.
Contact: Anna Simmons, Rosenthala@uhd.edu