



NORTH CENTRAL TEXAS COLLEGE

PRE~ALGEBRA COURSE SYLLABUS

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| Course Name & Number | Pre-Algebra MATH 0303 | Semester & Year | Spring 2010 |
| Instructor's Name | Valerie Adams | Office Hours | By Request |
| E-mail Address | vadams@nctc.edu | | |
| Grading Policy & Procedures | Homework 15% Four Exams 65% Final Comprehensive 20% Grade Scale: 90 – 100% = A; 80 – 89% = B; 70 – 79% = C; Below 70% = F | | |
| Catalog Description | This introductory course includes a general overview of basic arithmetic: integers, fractions, and percent. Other topics include algebraic concepts, solving equations, linear equations, graphing, and polynomials. Simple geometric concepts are also discussed. This course is designed for those students with little or no algebra background. This course does not count toward graduation at NCTC. | | |
| Prerequisite for MATH 0303 | Satisfactory <i>THEA</i> placement score. | | |
| Textbooks & Materials Required / Recommended | Elayn Martin-Gay: <u>Prealgebra</u> , Prentice Hall, Inc., 2011, 6 th ed. ** Calculators may be used only after Chapter 4. | | |
| Course Competencies | At the completion of the course the student should be able to: <ul style="list-style-type: none">• perform operations of arithmetic on terms.• solve basic equations.• perform basic operations of integers.• solve equations and problems.• perform basic operations of arithmetic on fractions.• perform the operations on fractional expressions.• perform basic operations on polynomials.• solve algebraic equations.• calculate percents.• solve percentage problems.• interpret statistics and plot solutions on graphs.• use geometric formulas to solve applied problems. | | |
| Attendance Policy | Regular and punctual attendance is expected of all students in all College Prep classes for which they have registered. There are NO excused absences. After 3 hours of absenteeism, a student may be warned and referred to the College Preparatory Studies Department Chair. After a student has been absent from class 6 hours , the student may be dropped . If the student is dropped from the only College Prep class in which he/she is enrolled and is TSI liable, the student will be DROPPED from all remaining courses for that semester. Inform the instructor in writing during the first week of class of any religious holidays observed this semester. Documentation must be given to the instructor at the class following the holiday. Also, since punctuality has become a problem in recent semesters, three tardies will be considered one absence . Coming in late disrupts the class. Occasions do occur that you will need to be tardy, but not on a consistent basis. | | |

Tentative Calendar

| Date | Starting | Topic |
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| Week 1 | January 18 | Introduction; 1.7 Exponents and Order of Operations 1.8 Algebraic Expressions 2.1 Integers 2.2 Adding Integers |
| Week 2 | January 25 | 2.3 Subtracting integers 2.4 Multiplying/dividing integers 2.5 Order of operations |
| Week 3 | February 1 | 2.6 Solving Equations (Addition and Multiplication Properties) Review TEST #1: Chapters 1 & 2 |
| Week 4 | February 8 | 3.1 Simplifying Algebraic Expressions 3.2 Solving equations (review of section 2.6) 3.3 Solving equations in one variable 3.4 Linear equations in one variable & problem solving |
| Week 5 | February 15 | 4.1 Intro to fractions and mixed numbers 4.2 Factors and simplest form 4.3 Multiplying and dividing fractions |
| Week 6 | February 22 | 4.4 Add, subtract fractions, LCD, equivalent fractions 4.5 Add, subtract unlike fractions 4.6 Complex fractions and Order of operations |
| Week 7 | March 1 | 4.7 Operations on mixed numbers 4.8 Solving equations with fractions Review |
| Week 8 | March 8 | TEST #2 Chapters 3 & 4 5.7 Mean, Median, Mode 6.1 Ratios and rates <i>** Spring Break March 15-19 Campus closed</i> |
| Week 9 | March 22 | 6.2 Proportions 6.3 Proportions and problem solving 6.4 Square roots and Pythagorean theorem 6.5 Similar Triangles |
| Week 10 | March 29 | 7.1 Percents, decimals, fractions 7.3 Solving percent problems with proportions 7.4 Applications of Percent 7.5 Percent & problem solving: tax, commission, discount |
| Week 11 | April 5 | Review TEST #3: Chapters 6 & 7 8.3 Coordinate plane 8.4 Graphing lines |
| Week 12 | April 12 | 9.1 Lines, Angles 9.2 Perimeter 9.3 Area, Volume, Surface Area |
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| Week 13 | April 19 | 10.1 Add, subtract polynomials 10.2 Properties of exponents 10.3 Multiply polynomials ** <i>Last Day to Drop with a W is Fri 4/23</i> |
| Week 14 | April 26 | 10.4 Intro to factoring: GCF Review TEST # 4: Chapters 8 - 10 |
| Week 15 | May 3 | Review for Final Exam ** <i>Final Exams May 10 - 13</i> |

Class Rules

1. Turn off all electronic devices prior to entering class.
2. Administrative policy prohibits food or drink in classrooms.
3. Be courteous to your fellow classmates.
4. Maintain a positive and professional attitude.
5. Ask questions, get involved, and do your homework.

THEA Compliance

If you did not pass the *THEA* test, or other approved test, in Reading, or Writing, or Mathematics, you will be required to complete a College Prep course **EVERY SEMESTER (including summers)** until you complete the College Prep course sequence or provide passing test scores.

Scholastic Integrity

Scholastic dishonesty shall include, but not be limited to cheating on a test, plagiarism, and collusion. See *Student Handbook* “Student Rights & Responsibilities: Student Conduct [FLB-(LOCAL)]” #18. Student violations of this policy will be reported to the appropriate Dean.

ADA Statement

North Central Texas College does not discriminate on the basis of disability for admission or access to its programs. The College is committed to providing equal access to its students with disabilities by providing appropriate accommodations; a variety of services and resources are made available through the ACCESS Department. Students are responsible for notifying the ACCESS Department of their need for assistance. Students with documented disabilities, such as mobility impairment, hearing or visual impairment, learning, and/or psychological disorders are eligible for services.

ACCESS and NETWORKS Program: The ACCESS Program provides accommodations for students who have a documented disability. A disability is anything that can interfere with learning, such as a learning disability, psychological challenge or physical illness or injury. Accommodations may include extra time on tests, tests in a non-distracting environment, note taker in class, etc. On the Corinth Campus, contact: Wayne Smith, ACCESS Coordinator, at (kwsmith@nctc.edu), 940-498-6207 or Penny Cogbill, Departmental Assistant, at (pcogbill@nctc.edu), 940-498-6212 or William Leija, Departmental Assistant, at (wleija@nctc.edu), 940-498-6224 in Suite 170. For the Gainesville, Bowie, or Graham Campuses, contact Yvonne Sandmann, ACCESS Specialist, at (ysandmann@nctc.edu, (940) 668-7731 ext. 4321) in Room 110 on the Gainesville Campus.

NETWORKS is a childcare reimbursement program that may assist technical students with partial childcare reimbursement for those that apply and qualify. Contact Yvonne Sandmann, ACCESS Specialist, for more information.

Additional Resources

The Student Success Center is designed to help all students at NCTC develop tools to achieve their academic goals. Students can attend free interactive workshops about Time Management, Study Skills, Test Anxiety, Choosing a Major, Learning Style Strategies, Career Exploration, and much more. This program also links students to FREE tutoring, including a Writing Center, a Math Lab, and free online. All students are invited to visit the Student Success Center located in Rooms 160, 170, 183, 188 in Corinth, Rooms 111 and 114 in Gainesville, and Room 124 in Bowie. Contact Tracey Fleniken, Student Success Coordinator, at tfleniken@nctc.edu, 940-668-4209 in room 114 on the Gainesville Campus for more information.

TRIO Program:

TRIO Programs are federally funded programs which offer services designed to assist students in achieving their academic goals. Services include educational workshops, academic advising, tutoring, personal counseling, career counseling, cultural enrichment, and financial aid information. Students may be eligible for TRIO if they are currently enrolled at North Central Texas College, have academic need, and meet at least ONE of THREE criteria which include: 1) first generation status—neither parent has graduated from college 2) income level is within federal low income guidelines, and/or 3) has a documented disability. TRIO is located in Room 170 on the Corinth Campus, Room 112 on the Gainesville Campus, and Room 124 on the Bowie Campus. Contact Jessica DeRoche, TRIO Coordinator, at jderoche@nctc.edu, 940-498-6212 on the Corinth Campus for more information.

Students can also access the Department of Student Success' website by going to www.nctc.edu and clicking on the Student Services link and Student Success or "Tutoring and Other ACADEMIC SUPPORT SERVICES", or by going directly to http://www.nctc.edu/Student_Services/Access/AcademicandStudentSupportServices.htm

EEOC Statement

North Central Texas College does not discriminate on the basis of race, color, national origin, gender, religion, age, or disability in the employment or the provision of services.

Web Page

Visit the North Central Texas College web page for information on registration, financial aid, counseling/advising, and cost of tuition and fees. You will also find information on the catalog and semester schedules as well as courses of study. You can keep up with what is happening on campus by checking the calendar of events and the sports news. The web has information on the library as well as links to other areas of interest. Check out our web page at <http://www.nctc.edu> .

You can also learn more about the Department of College Preparatory Studies at http://www.nctc.edu/What_We_Teach/ArtsSciences/DevStudies/DevStud.html . From this site, students have access to information about department faculty members and their course syllabi. Additionally, students can navigate to a variety of educational resources for English, math, and reading, which were selected to enhance the College Preparatory Studies current curriculum and assist students in achieving their educational goals.