

CRN 23498    Math 130B-020    Mon/Wed/Fri 9:00 am – 9:50 am    MCS 212  
 CRN 22502    Math 130B-030    Mon/Wed/Fri 11:00 am – 11:50 am    MCS 212

Lecturer: **Nancy S. B. Kloboučník** (klō bōch nik)

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\*Always put Math 130B and your name, to identify yourself, in the subject line of your Email.\*

Routinely check your @angelo.edu e-mail account for important class updates.

Office: **MCS 219C**

Open door policy: stop by and get your questions answered.

Students are welcome without an appointment during these times:

Mon/Wed/Fri 10:00 am – 10:50 am

Mon/Wed/Fri 12:00 pm – 12:30 pm

Mon/Wed/Fri 3:00 pm – 5:00 pm

(I may be available at other times by appointment)

### **Math Learning Lab: Library C302 Personal Tutoring !**

Monday – Thursday 9:00 am – 4:00 pm      Friday 9:00 am – 1:00 pm

Monday – Thursday 6:00 pm – 9:00 pm      Sunday 5:00 pm – 8:00 pm


You decide when to attend. No appointment necessary. This is when you can ask all those questions you avoided in class. If you're not getting 100% on the homework, stop by the math lab – it's a great resource!

Textbook: *Developing Skills in Algebra*, Sixth Edition, by Nanney, Cable, et al. ISBN# 978-1-932628-22-7  
 A copy of the textbook has been placed on Reserve in the ASU Library and in the Math Learning Lab.

Attendance: Attending and participating in class will help you succeed. Please arrive promptly and remain for the entire period. Roll will be taken daily.

Grading: The traditional grading scale will be used: 90% (A), 80% (B), 70% (C), 60% (D).  
 This class is a developmental course, so a grade of C or better is required to pass.

○ Homework and Quizzes	= 16%
(6 lowest daily scores will be dropped, 3 before midterm & 3 after midterm)	
○ 4 Regular Exams (16% each)	= 64%
○ Comprehensive Final Exam	= 20%
Total	= 100%

**Homework:** All homework will be assigned daily on Blackboard, , <http://blackboard.angelo.edu>.  
 Print out the assignment to use as a cover page when turning in your homework.


To receive credit for homework assignments, the assignment must be placed on the instructor's desk prior to the beginning of class. If you are tardy or absent, I will not accept your homework. If you have trouble completing a homework assignment, see me for assistance or get help in math lab **before** it is due.

If you cannot attend class, homework can be turned in early, sent to class with a friend, faxed to the math department, or scanned and e-mailed. If an assignment is late or not turned in, it will become one of your six dropped daily scores. This is the leeway you are given to allow for unavoidable tardies/absences.

You must show your work in an organized manner and use correct mathematical notation. Homework will not be graded unless your work is shown. **A general rule is to show as many steps on your papers and tests as I show on similar problems in class.**

**Format:** Use a pencil. Write down the original problem and immediately below it, show your work. Circle or box your final answer. Skip a line before starting the next problem. Put only one column of problems on a page and leave the back of the page blank. Do not submit spiral pages with torn edges. Put multiple pages in order, place the cover page on top, and staple the pages together in the upper left hand corner. Be sure to put your name and section on the cover page.

Quizzes: Unannounced quizzes will be given randomly as I deem necessary. Make-up quizzes will not be given. If you miss a quiz, it will become one of your six dropped daily scores.

Extra Credit: Watch Blackboard, , for these opportunities! Optional assignments may be offered to the entire class, allowing every student a chance to earn bonus points on homework or exams. Print out the assignment to use as a cover page. Late work will not be accepted.

Exams: You may not leave the room during an exam. Exams may be taken early if I excuse the expected absence. Make-up exams will not be given. At the end of the semester, if it is to your benefit, I will drop your lowest exam score and let the final exam count for 36% of your grade, provided no more than six absences have been accrued during the semester. Do not miss the final exam for any reason.

Strategy: You need to be present and ready to do your best each day, especially on test days. Between class-periods attempt enough problems to be able to quickly work similar problems on a quiz. Do not wait to learn any topic. Rework any missed or omitted homework/quiz/exam problems. Continuously review all chapters.

#### Classroom Policies:

☐ I expect students to be respectful of all members of our class. Please refrain from talking during lecture. Please turn off and put away all cell phones and other electronic equipment.

☐ Food and drink are allowed in the classroom. Please be discrete. Dispose of your own trash. Please straighten the classroom before leaving.

☐ Calculators are valuable tools when they are used appropriately. Do your homework by hand and then use your calculator to check your answers. You may not use calculators during exams or class work.

Disabilities: Students with disabilities which may warrant academic accommodations must contact the Student Life Office, Room 112 University Center, to request such accommodations. You are encouraged to make this request early in the semester so that appropriate arrangements can be made.

Religious Holy Days: A student who intends to observe a religious holy day should make that intention known in writing to me one week prior to the absence. A student who will be absent from class for the observance of a religious holy day shall be allowed to take an exam early and may turn in the daily assignment early.


**Honor Code:** ASU expects its students to maintain complete honesty and integrity in their academic pursuits. Students are responsible for understanding the Academic Honor Code, which is available on the web at <http://www.angelo.edu/forms/pdf/honorcode5.pdf>.

Calendar:

Date	Topic Details in course content on next page	Exam
16 Jan, M	<b>Holiday</b>	
18 Jan, W	Ch 1	
20 Jan, F	Ch 2	
23 Jan, M	Ch 2	
25 Jan, W	Ch 2	
27 Jan, F	Ch 2	
30 Jan, M	Ch 4	
1 Feb, W	Ch 4	
3 Feb, F	Ch 4	
6 Feb, M	Ch 4	
8 Feb, W	<b>Exam</b>	Ch 1, 2, & 4
10 Feb, F	Ch 4	
13 Feb, M	Ch 4	
15 Feb, W	Ch 3	
17 Feb, F	Ch 3	
20 Feb, M	Ch 3	
22 Feb, W	Ch 5	
24 Feb, F	Ch 5	
27 Feb, M	Ch 5	
29 Feb, W	Ch 5	
2 Mar, F	<b>Exam</b>	Ch 3 – 5
5 Mar, M	Ch 6	
7 Mar, W	Ch 6	
9 Mar, F	Ch 6	
12 Mar, M	<b>Spring Break</b>	
14 Mar, W	<b>Spring Break</b>	
16 Mar, F	<b>Spring Break</b>	

Date	Topic	Exam
19 Mar, M	Ch 6	
21 Mar, W	Ch 6	
23 Mar, F	Ch 7	
26 Mar, M	Ch 7	
28 Mar, W	Ch 7	
30 Mar, F	Ch 7	
2 Apr, M	Ch 7	
4 Apr, W *	<b>Exam</b>	Ch 6 – 7
6 Apr, F	Ch 7	
9 Apr, M	<b>Holiday</b>	
11 Apr, W	Ch 8	
13 Apr, F	Ch 8	
16 Apr, M	Ch 8	
18 Apr, W	Ch 8	
20 Apr, F	Ch 8	
23 Apr, M	Ch 8	
25 Apr, W	Ch 3	
27 Apr, F	<b>Exam</b>	Ch 3, 7, & 8
30 Apr, M	Review	
2 May, W	Review	
4 May, F	Review	
<b>2-hour Final Exam, Ch 1 - 8</b>		
130B-020	9 May, Wed	8:00 a.m.
130B-030	9 May, Wed	10:30 a.m.

**\*Drop Date:** Wednesday, 4 Apr 2012, is the last day to drop a course with a W or withdraw from ASU. Remember, however, that a developmental class cannot be dropped unless you are self-placed in the course.

This syllabus only acts as a guide for the course; revisions may occur. It is up to you to attend class and stay current. Changes will be announced in class and posted on Blackboard, .

**Student Learning Outcomes**

- 1. The students will demonstrate factual knowledge including the mathematical notation and terminology used in this course.** Students will read, interpret, and use the vocabulary, symbolism, and basic definitions used in elementary algebra covering topics such as exponents, radicals, equations, inequalities, and polynomials.
- 2. The students will describe the fundamental mathematical principles, generalizations, and properties arising from the concepts covered in this course.** Students will identify and apply the basic operations on the real numbers and the techniques used in solving a variety of types of equations and systems of equations.
- 3. The students will apply course material along with techniques and procedures covered in this course to solve problems.** Students will use the facts, formulas, and techniques learned in this course to solve application problems in a variety of topics to include business, number relations, geometric situations, and proportions.
- 4. The students will develop the basic skills and knowledge necessary to be successful in college-level mathematics courses.** Students will acquire a level of proficiency in the fundamental concepts of equation solving, algebraic manipulation, graphing, and applications to promote success in college-level math courses.

**Course content**

**Textbook:** *Developing Skills in Algebra*, Sixth Edition, by Nanney and Cable. The following chapters including particular sections listed are covered. (See textbook "Contents")

- 1. Fundamental Concepts.** Addition, subtraction, multiplication, and division of real numbers; whole number exponents; algebraic expressions and combining similar terms; the product of a monomial and another polynomial; order of operations and grouping symbols; evaluating algebraic expressions; and using formulas.
- 2. First-Degree Equations and Inequalities: One Unknown.** Techniques in solving first-degree and absolute value equations; solving first-degree and absolute value inequalities; and literal equations.
- 3. Solving Word Problems.** From words to algebra; an introduction to solving word problems; distance-rate-time and mixture problems.
- 4. Products and Factoring.** The product of polynomials; factoring polynomials: the greatest common factor, factoring by grouping, factoring trinomials, formulas for factoring special products, complete factorization; and long division of polynomials.
- 5. Rational Expressions.** Simplifying rational expressions; multiplication, division, addition and subtraction of rational expressions; simplifying complex fractions; and rational equations.
- 6. Exponents and Radicals.** The laws of exponents; integer and rational exponents; scientific notation; radicals, simplification of radicals; operations with radicals; and rationalizing denominators.
- 7. Quadratic Equations.** Quadratic equations solved by factoring, completing the square and quadratic formula; solving incomplete quadratic equations; and word problems.
- 8. Relations and the Cartesian Coordinate System.** Cartesian coordinate system; graphing equations and inequalities in two variables; functions; linear equations in two variables; solving systems of equations in two variables by graphing, substitution and addition; graphical solution of a system of linear inequalities; and the algebraic solution of three equations with three variables.