MPC 090 **Prealgebra**

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Office Hours: M-Th 9:15-10:20
or by appointment

Credits: 5
Term: Fall 2011
Class Mode: Online
Website: http://angel.bigbend.edu
http://wamap.org
http://wallace.ccfaculty.org

Course Description: The study of basic arithmetic and algebraic topics prerequisite to a beginning algebra course including operations with integers, fractions, decimals and percents; order of operations, measurement, the metric system, algebraic expressions, formulas, and simple linear equations.

Prerequisite(s): Appropriate placement on the BBCC math placement test or satisfactory progress in MPC 080.

Text(s): Optional text: *Prealgebra: A Custom Edition for Big Bend Community College.*
I will also be emailing out a workbook which will be required. Watch your big bend E-mail!

Description of Online Course Resources:

- http://angel.bigbend.edu – used for getting started at the beginning of the course. Includes links to all other resources. Online homework can be completed inside this site using the WAMAP tab.
- http://wamap.org – homework is completed online using this site. It is an important site to have bookmarked. While you can access this site inside angle, if angel goes down on campus you can still access your homework online directly at this link. WAMAP also includes an online grade book where you can check your progress in the course.
- http://wallace.ccfaculty.org – while this site is not "needed" for the course, it is a good one to have for future reference. All course materials and videos can be found in some form on this site.

Online office: By appointment I am available in the online office. This is a virtual space that can be accessed over the web so you do not have to come to campus in order to ask me questions. Be sure to set up an appointment with me in advance and you can access the online office from the class website: http://wallace.ccfaculty.org and clicking on our course at the top, "MPC 095".

Calculators: Calculators are not needed for this course. For the majority of the course calculators will not be allowed. However, on occasion, during the last half of the term a calculator MAY be used (this will be explained clearly when allowed – after the second test!). However, only the following calculators may be used in Big Bend MPC courses: TI30Xa, TI 30XIIs, Casio FX 260, or Casio FX 300. Any other calculator, no matter how similar (especially not a MultiView) is **not permitted** in this or any other MPC course.

Course Objectives: Each unit will address a course level objective that should be mastered before moving on to the next.

- Unit A: Simplify expressions with integers and using the order of operations. Also simplifying algebraic equations and solving two step linear equations.
- Unit B: Simplify expressions with fractions and decimals and using the order of operations. Also solving general linear equations
- Unit C: Solve problems involving probability, statistics, ratios, rates, proportions and percents.
- Unit D: Solve geometry problems involving conversions, area, volume, and applications. Also simplify basic expressions involving polynomials.

What you will do to be successful in this course:

Each unit of this course is set up exactly the same. The following assignments and assessments are designed for you to show you have mastered the required objectives of the course:

- **Notebook**: As you watch videos in the WAMAP system, take notes in the workbook. Each page in the workbook corresponds to a video in the homework system. The homework system also includes two problems similar to the video. Work these two practice problems out in the workbook.
    - Due: When you take the test, bring to the test with you to turn in.
    - Grading: Credit is given for completion of all pages for the module. Partial credit is assigned if notebook is incomplete.
    - Grade weight: 5%
    - Why: The notebook is the tool that will help you learn the objectives for this course
- **Homework**: After watching about five videos (varies by section) you will complete a homework assignment of 15 problems. These are completed on WAMAP and should be done daily as listed on the calendar. While you are not required to turn in your work, it will be useful to show your work in an organized manner which you can reference later as you study. After completing about six homework assignments (varies by module) you will complete a practice exam. This is counted as homework in the grade book.
    - Due: When you take the test, graded instantly as you submit online.
    - Grading: Credit is given per problem and is graded by the computer. As soon as you submit a problem or assignment it will show up in your online grade book.
    - Grade weight: 10%
    - Why: The homework is where you practice the objectives until you have mastered them
- **Exam**: After completing the practice exam you will take an exam proctored at Big Bend Community College. Test times will be determined the first week of classes. Watch your big bend E-mail for important information regarding test times and locations.
    - Due: As listed on the calendar
    - Grading: Tests are graded on both correctness and work shown. Partial credit may be awarded
    - Grade weight: 45%
    - Why: The exam is where you demonstrate to your instructor that you have mastered the objectives for the unit.

- **Final:** At the end of the quarter you will take a 40 question, multiple choice exam on campus. The test is in three parts: 15 questions no calculator, 15 questions with a calculator, and 10 questions on solving equations. Watch your big bend E-mail for important information regarding final time and location.
    - o Due: During the final exam period – watch your big bend e-mail!
    - o Grading: Each correct problem is worth one point.
    - o Competency: In order to move on to any course this is a prerequisite for you must score 10/15 on the no calculator portion, 10/15 on the calculator portion, and 7/10 on the solving equations section.
    - o Grade weight: 40%
    - o Why: The final is where you demonstrate to your instructor that you remember and have mastered all the objectives for the course.

Module Grade: After your weighted grade has been calculated, I will assign your grade based on the following table:

Percent	Grade		Percent	Grade		Percent	Grade		Percent	Grade		Percent	Grade
≥95	4.0		88	3.3		81	2.6		74	1.9		67	1.2
94	3.9		87	3.2		80	2.5		73	1.8		66	1.1
93	3.8		86	3.1		79	2.4		72	1.7		65	1.0
92	3.7		85	3.0		78	2.3		71	1.6		64	0.9
91	3.6		84	2.9		77	2.2		70	1.5		63	0.8
90	3.5		83	2.8		76	2.1		69	1.4		62	0.7
89	3.4		82	2.7		75	2.0		68	1.3		<62	0.0

Pass/Fail Grades: This only applies to students taking the course under the Pass/Fail grading option. It is the policy of the Mathematics and Science Division to assign a passing grade only if the earned grade for the course is 2.0 or better. This means 75% is required in the course to receive a passing grade.

Withdraw Policy: I do not sign late withdraws for any reason. The campus withdraw deadline for Fall Quarter 2011 is on Tuesday, November 22. If you decide to withdraw for any reason be sure you do no miss this deadline.

Test Proctoring: If you live within the Big Bend service district your test MUST be proctored on campus as listed in the calendar. If you live outside of the service district you may have your test proctored at another community college or university. However, it is your responsibility to contact me by the first Wednesday of classes with the contact information of the testing center at the community college near you.

Late Work/Missing Test: No late work will be accepted for any reason. Missing a test will result in a 0 grade.

Competency: In order to move on to any course that list MPC 090 as a prerequisite, you must pass each section of the final (all three sections) with a 65% or better. If you do not pass the final or a part of the final on the first attempt, you can retake it once at the end of finals week.

How soon will I know my grade? The WAMAP system grades your homework instantly as you submit each problem. Tests results will be available within 24 hours of the exam on the wamap grade book.

Test Dates: Tests must be taken on campus on the scheduled times on the scheduled dates. The dates for the tests are (times are TBA, watch your big bend e-mail!):

- Test A: Monday, October 3
- Test B: Tuesday, October 25
- Test C: Wednesday, November 9
- Test D: Tuesday, November 29
- Final: Wednesday, December 7 (subject to change, watch your big bend e-mail!)

Special Needs: Any student who feels he or she may need a reasonable accommodation for any type of disability, please make an appointment to see me during office hours. You will also want to contact Disability Services in the 1400 building or by calling 509.793.2027 as soon as possible. The disability must be documented in order to receive accommodations.

Cheating: Don't cheat. Cheating will result in a 0.0 for the course. Complete honest is required. It is the students' responsibility to avoid even the *appearance of cheating.* This means (but not limited to): copying work from other students, using notes of any kind (audio, written visual, etc) on any test unless explicitly allowed by the instructor, giving test questions or answers to other students, receiving test questions or answers from other students, or anything else that might even APPEAR as academic dishonest.

No Name: Be sure to put your name on your paper. I do not give credit for no name papers and they will be thrown away.

Using E-mail: You MUST use your big bend E-mail account for this course. Often I send important course announcements to your big bend E-mail. It is expected that you check this account daily, as you will be responsible for all messages sent to this account and often the messages require a quick response from you the student. Do not use any other account for this course. Often e-mail from gmail, hotmail, juno, etc. end up in my junk mail which I do not check. Please note – the angel website includes an E-mail widget. I do not use this one either as the angel mail system does not represent math equations very well. To get to your big bend E-mail go to http://www.bigbend.edu and click "Big Bend E-mail".

Technical Support: Should you have any technical issues it will be important to contact your instructor immediately. You can reach the technical support desk at the following number: 509.793.2066.

Support Services: There are many options available to you should you have a question. These include, but are not limited to, the following:

- Contact your instructor!!!!!!!
- Math Lab in 1201 (where you took your placement test)
- Student Support Services
- Tutors if available
- Set up an appointment with me

Minimum technical skills: To use all the features of this online classroom you MUST…

- Be comfortable with and use regularly (that means daily) your big bend e-mail account (not angel!)
- Have or have access to a reliable computer with reliable internet. (students who do not have a computer or internet in the home may have difficulty with this online course and are encouraged to take a traditional section of the course)
- Be comfortable navigating the internet, watching videos (such as youtube), and entering in text into the computer.

Expectations of Students in Online Courses:

- This is a 5 credit course. This means you are expected to spend 10-15 hours per week on the course. This turns into 2-3 hours per day. If you are spending less than this requirement it is highly unlikely that you will be successful!
- This means just watching the videos and doing just required homework may not be enough to be successful.
- This is a 5 credit course. You are expected to spend 10-15 hours per week on this course.
- Online courses take more discipline on the part of the student. Students often feel that online courses are “easier” and procrastinate. Stay with the calendar. If you have questions, contact your instructor immediately!
- This is a 5 credit course. You are expected to spend 10-15 hours per week on this course.
- Students are expected to watch ALL videos, complete ALL assignments, and do ALL tests as listed on the calendar. Be sure you are familiar with the calendar.
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Course Calendar: See next page.

Course Calendar: Subject to change. Note test dates and withdraw deadline. Each day (including review days) will have one ***required online homework*** assignments with it. Calendar lists topics that you should be completing in the workbook (most topics have several pages as each topic will have around four videos with it, be sure to watch all videos!) along with optional review assignments out of the optional textbook which are not turned in. E-mail your instructor if you have any questions, it is **your responsibility** to be aware of all dates on this calendar!

Date	Topic	Optional Extra Practice Out of Optional Text (required homework is done online each day!)
9/19	Operations on Whole Numbers	
9/20	Order of Operations	7 (1-43 eto, 45-85 odd)
9/21	Add and Subtract Integers	16 (23-57 eoo, 67-85 eoo), 28 (29-77 odd), 38 (9-67 odd)
9/22	Multiply and Divide Integers	50 (17-83 eoo) 57 (1-59 odd)
9/26	Simplify Algebraic Expressions	67 (7-55 eoo), 73 (11-89 eoo), 83 (23-69 eoo)
9/27	One Step Equations	91 (5-55 eoo), 100 (3-57 eoo, 73, 75)
9/28	Two Step Equations	104 (1-39 odd)
9/29	Practice Test	
10/3	Test A	
10/4	Prime Factorizations	113 (7-57 odd)
10/5	Reduce Fractions	122 (3-75 odd, 85, 87)
10/6	Multiply and Divide Fractions	133 (7-85 eoo, 95)
10/10	LCM	142 (3-45 odd)
10/11	Add and Subtract Fractions	152 (3-71 odd, 81, 83)
10/12	Order of Operations with Fractions	169 (3-41 odd)
10/13	Mixed Numbers	161 (3-49 odd)
10/17	Solving General Equations	175 (9-59 odd), 179 (3-37 odd)
10/18	Equations with Fractions	184 (3-43 odd)
10/19	Operations with Decimals	190 (5-45 eto), 200 (5-45 eto), 209 (1-75 eto)
10/20	More Fractions and Decimals	221 (1-25 odd, 63-77 odd), 227 (1-23 odd)
10/24	Practice Test	
10/25	Test B	
10/26	Probability and Measure of Center	232 (1-33 odd), 239 (1-11 odd, 15-29 odd)
10/27	Graph Points	247 (1-37 odd)
10/31	Ratios, Rates, and Proportions	257 (3-43 odd), 267 (3, 7, 15-31 odd)
11/1	Applications of Proportions	267 (9-13 odd, 33-59 odd)
11/2	Percents and Translating	279 (7-71 eto), 288 (1-47 odd)
11/3	Percents and Proportions with Applications	296 (1-47 odd), 306 (3-59 odd)
11/7	More Percent Applications	316 (1-41 odd), 323 (1-15 odd)
11/8	Review	
11/9	Test C	
11/10	Convert Units	333 (13-73 eoo), 339 (1-33 eoo)
11/14	Convert Dual Units and Temperature	Worksheet, 339 (37-43 odd), 347 (49-73 odd)
11/15	Area, Volume, and Surface Area	358 (1-65 odd)
11/16	Pythagorean Theorem	369 (1-27 eto, 29-55 odd)
11/17	Introduction to Polynomials	376 (7-51 eto), 383 (1-37 odd), 388 (1-29 odd)
xx	Thanksgiving Break 11/21-11/24	Note Withdraw Deadline is 11/22
11/28	Review	
11/29	Test D	
11/30	Review – No Calculator	Practice Final A
12/1	Review – With Calculator	Practice Final B
12/5	Review – Solving Equations	Practice Final C
12/7	Final (date subject to change)	