MPC 099 (A,B,C,D,E)   **Intermediate Algebra**

Instructor: Tyler Wallace   **Credits:** 5 (1 credit for each Module)
Office: 1228   **Term:** Fall 2011
Email: tylerw@bigbend.edu   **Class Mode:** Online
Phone: 509.793.2154   **Website:** http://angel.bigbend.edu
Office Hours: M-Th 9:15-10:20   http://wamap.org
                or by appointment   http://wallace.ccfaculty.org

Course Description: This course is split into five parts or modules which cover basic algebraic operations and concepts, and the structure and use of algebra. The five modules include: Solving Linear Equations, Graphing Linear Equations, Introduction to Polynomials, Factoring Polynomials, and Simplifying Rational Expressions. A grade is assigned for each of the five modules.

Prerequisite(s): BBCC placement exam or passing all five modules of MPC 095 with a 1.0 or better. Students who fail to meet the prerequisite by the end of the third day of class (Wednesday) will be dropped from the course.

Text(s): All texts (required and optional) are available for purchase at the bookstore or fee download off the following website: http://wallace.ccfaculty.org/book/book.html.

- Required: *MPC 099 Lab Notebook* by Tyler Wallace
- Optional: *Beginning and Intermediate Algebra* by Tyler Wallace
- Optional: *Student Solutions Manual to Beginning and Intermediate Algebra* by Tyler Wallace

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 099".

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

- Module A: Solve compound inequalities, absolute value inequalities, and systems of equations.
- Module B: Simplify radical expressions.
- Module C: Solve quadratic equations and applications, also simplify compound fractions.
- Module D: Solve rational equations and applications.
- Module E: Use function notation to solve problems and use exponential and logarithmic functions.

What you will do to be successful in this course:

Each module 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.
    - o Due: When you take the test, bring to the test with you to turn in.
    - o Grading: Credit is given for completion of all pages for the module. Partial credit is assigned if notebook is incomplete.
    - o Grade weight: 5%
- **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.
    - o Due: When you take the test, graded instantly as you submit online.
    - o 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.
    - o Grade weight: 20%
- **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.
    - o Due: As listed on the calendar (every 8th day of class)
    - o Grading: Generally tests are 15 problems worth 2 points each. One point given for the answer and one point is given for the work. Please note this is a "general" grading system as there are occasional exceptions.

o Retakes: You will have the opportunity to retake each test once as scheduled during the week immediately following the test.

o Grade weight: 75%

Module Grade: After each exam a module grade is assigned based on your weighted average. Your grade will start fresh each module. This means a total of five grades are given over the course of "MPC 095". Grades are assigned using 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	0.0
91	3.6		84	2.9		77	2.2		70	1.5			
90	3.5		83	2.8		76	2.1		69	1.4			
89	3.4		82	2.7		75	2.0		68	1.3			

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 and you must use one of the scheduled retake times. Doing so will provide you with only one opportunity to take the test.

Test Retakes: You will have the opportunity to retake each test once, as listed on the course calendar, to improve your score. You must sign up in advance to do a retake. Test results will be given out as soon as possible, usually within 24 hours of taking the test. Retakes will be required of students who score lower than 65% weighted averages on the module, and highly encouraged of students who score lower than 75% weighted average

Competency: On each module you should strive to have a score of at least 75% or 2.0 once homework, workbooks, and tests are averaged together. If you score below 65% or 1.0 you will be required to retake the module exam. If you score between 65% and 75% you will be strongly encouraged to retake

the exam to improve your grade. Students who earn 75% or higher are much more likely to be successful in the next module! If your score is above 75% you do have the option to retake your exam, however, it is suggested that you focus on the new material in the course.

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: Thursday, September 29
- Test B: Thursday, October 13
- Test C: Thursday, October 27
- Test D: Thursday, November 10
- Test E: Thursday, November 28

Calculators: Calculators are not needed for this course. However, on homework or tests a calculator MAY be used. However only the following calculators may be used in Big Bend MPC courses: TI 30Xa, TI 30XIIs, Casio FX 260, Casio FX 300. Any other calculator, no matter how similar (especially not a multiview) is not permitted in this or any other MPC course.

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.

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.

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

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, retake dates (if you want to take one), and withdraw deadline. Calendar lists pages that you should be completing in the workbook. Each topic will have around four videos with it, be sure to watch all videos! Each day (excluding review days) will have one to two homework assignments with it. E-mail your instructor if you have any questions, it is **your responsibility** to be aware of all dates on this calendar!

Module A: Simplify and solve linear equations and expressions including problems with absolute value. Also solve applications of linear equations.

Monday	Tuesday	Wednesday	Thursday
Sep 19 Compound Inequalities (workbook pg 4-6)	20 Absolute Value Inequalities (workbook pg 7-9)	21 Systems of Equations (workbook pg 10-17)	22 Systems of 3 Variables (workbook pg 18-19)
26 Value/Interest Problems (workbook pg 20-23)	27 Mixture Problems (workbook pg 24-26)	28 Practice Test	29 Module A Exam (bring your workbook)

Sign up for Retakes: Monday, October 3
Retakes for Module A: Wednesday-Friday, October 5-7

Module B: Solve inequalities; find equations of lines; and solve application problems.

Monday	Tuesday	Wednesday	Thursday
Oct 3 Simplify Radicals (workbook pg 28-32)	4 Add/Subtract/Multiply Radicals (workbook pg 33-39)	5 Rationalize Denominators (workbook pg 40-44)	6 Rational Exponents (workbook pg 45-47)
10 Mixed Index (workbook pg 48-50)	11 Review	12 Practice Test	13 Module B Exam (bring your workbook)

Sign up for Retakes: Monday, October 17
Retakes for Module B: Wednesday-Friday, October 19-21

Module C: Add, subtract, multiply, and divide various types of polynomials

Monday	Tuesday	Wednesday	Thursday
Oct 17 Complex Numbers (workbook pg 52-56)	18 Equations with Radicals (workbook pg 57-61)	19 Equations with Exponents (workbook pg 62-65)	20 Complete the Square and Quadratic Formula (workbook pg 66-72)
24 Rectangles (workbook pg 73-75)	25 Compound Fractions (workbook pg 76-79)	26 Practice Test	27 Module C Exam (bring your workbook)

Sign up for Retakes: Monday, October 31

Retakes for Module C: Wednesday-Friday, November 2-4

Module D: Factor polynomials

Monday	Tuesday	Wednesday	Thursday
Oct 31 Rational Equations (workbook pg 81-83)	Nov 1 Work Problems (workbook pg 84-85)	2 Simultaneous Product Equations (workbook pg 86)	3 Distance/Revenue Problems (workbook pg 87-92)
7 Frames (workbook pg 93-94)	8 Review	9 Practice Test	10 Module D Exam (bring your workbook)

Sign up for Retakes: Monday, November 14

Retakes for Module D: Wednesday-Friday, November 16-18

Module E: Evaluate, simplify, multiply, divide, add and subtract rational expressions.

Monday	Tuesday	Wednesday	Thursday
14 Functions (workbook pg 96-99)	15 Algebra of Functions (workbook pg 100-101)	16 Inverse Functions (workbook pg 102-104)	17 Graph Quadratic Functions (workbook pg 105)
21 Thanksgiving Break	22 Thanksgiving Break (withdraw deadline)	23 Thanksgiving Break	24 Thanksgiving Break
28 Exponential Equations and Compound Interest (workbook pg 106-111)	29 Logarithms (workbook pg 112-114)	30 Practice Test	Dec 1 Module E Exam (bring your workbook)

Sign up for Retakes: Monday, December 5

Retakes for Module E: Wednesday, December 7th at 2:00.