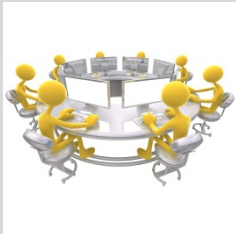**Instructor: Arman Banimahd**

Office: W120   Phone: (262) 521 5504   E-mail: arman.banimahd@uwc.edu

Office Hours: Tuesdays and Thursdays 9:00 - 9:50 am, Fridays 12:00 - 12:50, and by appointment

Course Information	Beginning and Intermediate Algebra course is made up of Mat 103A and the Mat 103B. Mat 103B is worth 3 credits and counts as elective credits, Mat 103A is a non-degree credit. Introduction to Basic and Intermediate Algebra course is an accelerated math course that covers algebra concepts and will be far more sophisticated than a high school algebra course. Expect to have the material covered at two to three times the pace of high school. Upon successful completion of this course (C or better in both parts of the course), students should be able to complete the subsequent course like MAT 110.
Prerequisite	A grade of C or better in Basic Mathematics (MAT 090) or based on placement test score. EL
Textbook	**Title**: Developmental and Intermediate Algebra, second edition **Author**: Stalder / Martin **ISBN**-13: 978-1-50669-648-5 **e-text** http://pages.uwc.edu/shubhangi.stalder/Developmental-and-intermediate-Algebra-Textbook2nded.pdf **And** **Title**: Developmental and Intermediate Algebra -Workbook **Author**: Stalder / Martin **ISBN**-13: 978-1-50669-649-2 **e-workbook:** http://pages.uwc.edu/shubhangi.stalder/workbook2nded.pdf **NOTES:** ☐ You must have your textbook, workbook with you every class period starting with the first class! ☐ You can either print e-text e-workbook, or purchase them at the school bookstore. ☐ All of the material will be posted on my webpage, banimahd.weebly.com/resources.html . You are responsible to check the webpage for assignments regularly.
ALEKS	You must have a minimum of 18 week ALEKS license purchased either through **www.aleks.com** or the bookstore. and, when prompted, enter the following code:
Other Materials	☐ A 3-ring binder (3 in) with a minimum of 6 tabs labeled as "Handouts", "Classwork", "Attendance Quizzes" , "Playing", "Exam and Quiz Reviews", and "ALEKS". ☐ About 200 sheets of paper in the last tab. ☐ Writing utensils, and colored pens/pencils ☐ A 12-inch ruler. ☐ A scientific calculator. *Cell phones or other electronic devices will NOT be allowed to be used as calculators.*
First Week	☐ All the handouts e-mailed to you must be included in their proper sections in this portfolio. ☐ Please *finish your initial assessment*; and all the *homework* listed in the welcome letter before you come to your first day of classes.

Course Content Objectives	This course is intended to prepare the students to succeed in the College Algebra course Mat110. Some of the objectives for this course are listed below (see calendar for detailed schedule) ➢ Apply the order of operations in arithmetic and algebraic expressions. ➢ Extend the rules of integer exponents to rational exponents and apply these rules in simplifying algebraic expressions. ➢ Explore various linear equations, their graphs, and the interpretation of their parameters. ➢ Become familiar with a variety of factorization techniques and their use in solving equations involving polynomials, rational expressions, and radicals. ➢ Work in the rectangular/Cartesian coordinate system with linear and other equations. ➢ Formulate simple real world applications in one or more variables and solve them algebraically and/or graphically. ➢ Where appropriate, use a scientific/non-graphing calculator to explore and answer various algebraic questions.
Other Objectives	➢ Help you experience mathematics visually, algebraically and verbally ➢ Try to instill playfulness and curiosity when working in mathematics ➢ Develop intuition, and critical thinking skills ➢ Be able to use proper mathematical terminologies in oral, and written communication
Calculator Policy	A calculator will be needed on some in-class written exams and quizzes. If permitted, a scientific calculator is allowed (e.g., TI-30XIIS, TI-30XS, TI-36X Pro). No graphing calculator (e.g., TI-84), cell phone, or other electronic device will be allowed. On ALEKS assessments, a calculator button will show up if permitted.
Workload	Workload estimation is based on the average student.

Item	Hours Spent
Class time (4 credits)	~4 hrs/wk (~58 hours)
Out-of-class time: 1. Watching videos/reading text 2. Taking notes/writing summaries on lectures/reading 3. Doing problems from Video Logs 4. Filling ALEKS Pie/meeting Intermediate Objectives	~8-12 hrs/wk (~116-174 hours)
Make-up exams (when needed to satisfy 100% mastery goal)	~8 hrs
Total for the Semester	$\sim 182\text{-}240\ hrs$

Grading Policy

➢ Your grade in MAT103 will be determined according to the following:

MAT 103 B grade	%	MAT 103 A grade	%
Quizzes (7 quizzes total, one dropped)	6	Quizzes (7 quizzes total, one dropped)	6
Exam 1 Part B	6	Exam 1 Part A	6
Exam 2 Part B	9	Exam 2 Part A	9
Exam 3 Part B	12	Exam 3 Part A	12
Exam 4 Part B	12	Exam 4 Part A	12
Final Exam Part (Paper/Pencil)	25	Final Exam Part (Paper/Pencil)	25
Pre/Post class Worksheets	8	Pre/Post class Worksheets	8
Class Participation/Attendance Quizzes	8	Class Participation/Attendance Quizzes	8
Reasoning Assessments	5	Reasoning Assessments	5
ALEKS Objectives	9	ALEKS Objectives	9
Total	100	Total	100

Grading Scale: Standard grading scale is used where scoring above 93% is an A, 90-92% is an A-, 87-89% is a B+, and so on.

	> **Exams/Quizzes:**
	All assessments/exams are cumulative. Exams and quizzes are not timed, but eligibility is earned.
	To earn exam eligibility, you must
	    ☐ Complete the relevant exam review
	To earn quiz eligibility, you must
	    ☐ Must complete relevant practice quizzes
	    ☐ Complete all relevant pre-class/post-class worksheets
	
	> **Retake/ Make-up Exam Policy:**
	If you miss an exam due to extenuating circumstances, then a retake/makeup exam will be considered only if:
	    ☐ You have emailed the instructor before the next class
	    ☐ You have completed the relevant practice exam by the due dates
	    *There will be no make-up quizzes
	
	> **Pre/Post class Worksheets:**
	To be successful in class, you must arrive prepared. Prepared means:
	    ☐ You have read/watched the assigned lessons
	    ☐ You have completed the pre-class worksheet(s)
	    ☐ You have completed the post-class worksheets associated with the previous lesson(s)
	
	> **Class Participation/Attendance Quizzes:**
	Attendance quizzes are brief in-class quizzes designed to check understanding of textbook/video lessons, workbook exercises, classroom content, or ALEKS topics. These quizzes may be oral and administered one-on-one or in a group. The student/group will use appropriate mathematical terminology to explain their work. No student is forced to demonstrate their mastery orally in front of the whole class.
	    ☐ In-class participation involves engaging in classroom activities such as group work, reflections, problem-solving presentations, and other tasks.
	    ☐ Attendance quizzes are questions in class that are designated as attendance quizzes. These only get 1 or 0 points each. You are required to sign in for each one.
	
	> **Reasoning Assessments:**
	    ☐ These are assessments to check if you can apply knowledge learned out of context.
	    ☐ The points on these questions are graded for your reasoning skills and explanation of your thought processes.
	    ☐ You must demonstrate adequate effort and thought to receive credit on these assessments.
	    ☐ Some of the assessments may be given as take home. You must respect the honor code presented on these take home assessments.
	
	> **ALEKS Intermediate Objectives:**
	Your ALEKS pie is broken into 9 Intermediate Objectives. You must complete these objectives by the deadlines to earn full credit.
	
	Extra Credit: You will be allowed extra credit points from time to time throughout the semester for problems or information so pay careful attention to these.

Cheating	**Cheating:** *If you are caught cheating on ALEKS or paper/pencil exams and quizzes, pre/post class worksheets (cheating refers to when you use other websites to solve your problem, or copying solutions from another student), academic misconduct proceedings will be started against you and you will not be allowed to take any further exams until this matter is resolved. Cheating is a serious offense and will not be tolerated. The mastery you demonstrate in this class is your own work and you should take pride in your dignity and ethical behavior that is expected of you in College.*
Special Needs	Please feel free to come and talk to me if I can help you in any way.

Semester Tentative Calendar for Math 103 Course Fall 2017

The video/text assignments are to be viewed/read and Video Log Questions Attempted before class. Video links are embedded in the appropriate section of the e-text and the workbook. At the intermediate objective due dates, your percentage mastery will be recorded for your grade on that Intermediate Objective.

Last day to drop without W is September 18, and last day to drop with a W is November 13.

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
September	**3.**	**4.**	**5.** Module 0, Counting Project, 1.1 on decimal number system, Complete ALEKS Initial Assessment prior to first Day!!	**6.**	**7.** 1.2,1.4,1.5 Number sets, Fractions, irrationals, equiv. fractions, sci. not., number lines, rounding	**8.**	**9.**
	10.	**11.**	**12.** 1.6-1.7, Natural, Integer and rational exponents and radicals, **Quiz 1**	**13.**	**14.** 1.7-1.8, Natural, Integer and rational exponents and radicals,	**15.**	**16.**
	17. ALEKS I.O.1 due	**18.**	**19.** 1.9, 1.10, 2.1 Polynomial and rational expressions, functions, **Quiz 2**	**20.**	**21.** 2.2 Polynomial and rational expressions, functions, begin addition of "like" objects	**22.**	**23.**
	24. ALEKS I.O.2 due	**25.**	**26.** 2.3 Subtraction, Review	**27.**	**28.** Exam I	**29.**	**30.**
October	**1.** ALEKS I.O.3 due	**2.**	**3.** 2.3, 2.4 Factoring	**4.**	**5.** 2.5 Factoring Trinomials and binomials	**6.**	**7.**
	8. ALEKS I.O.4 due	**9.**	**10.** 2.6, 2.7 Multiplication and division **Quiz 3**	**11.**	**12.** 2.7 Division of whole #'s, rational expr., polynomials	**13.**	**14.**
	15.	**16.**	**17.** 2.8 Division algorithm for decimals, polynomials, order of operations.	**18.**	**19.** 3.1, 3.2,Graphs of inequalities, additive and multiplicative prop of =, **Quiz 4**	**20.**	**21.**
	22. ALEKS I.O.5 due	**23.**	**24.** 3.3 Percentage, proportion and variation problems, Zero Product property and solving equations by factoring, Review	**25.**	**26.** Exam II	**27.**	**28.**
	29. ALEKS I.O.6 due	**30.**	**31.** 3.3 Solving Equations continued,	**1.**	**2.** 3.4, Absolute value equations and inequalities, Power and radical equations, **Quiz 5**	**3.**	**4.**
November	**5.**	**6.**	**7.** 3.4, Absolute value equations and inequalities, Power and radical equations , 3.5 Quadratic equations by completing the square and quadratic formula	**8.**	**9.** 4.1, 4.2 Rectangular Coordinate System, Midpoint and Distance between two points, and graphing solutions to equations **Quiz 6**	**10.**	**11.**
	12. ALEKS I.O.7 due	**13.**	**14.** 4.3 Lines and linear equations in two variables, slope-intercept and point-slope form for equations of lines, Review	**15.**	**16.** Exam III	**17.**	**18.**
	19. ALEKS I.O.8 due	**20.**	**21.** 4.3 Lines and linear equations in two variables, slope-intercept and point-slope form for equations of lines	**22.**	**23.** Thanksgiving Break	**24.**	**25.**
	26.	**27.**	**28.** 4.3 Lines and linear equations in two variables, slope-intercept and point-slope form for equations of lines	**29.**	**30.** 4.4, Interpreting graphs, Linear Models, Linear systems of equations	**1.**	**2.**
December	**3.** ALEKS I.O.9 due	**4.**	**5.** 4.5 Linear systems and Mixture Problems. Review for exam.	**6.**	**7.** Exam IV	**8.**	**9.**
	10.	**11.**	**12.** 4.6, 4.7 Rate Problems, Multistep Problems. **Quiz 7** Review for Final	**13.**	**14.** Review for Final	**15.**	**16.**

17.	18. Final Exam 3:30-5:30pm	19.	20.	21.	22.	23.