MATH 106 Online
Algebra and Elementary Functions
Summer 2014
July 7th to August 15th

Instructor Information:

Ms. Bonnie Kegan
Email: bkegan1@umbc.edu
Mobile Phone: 410-507-9328 (Text or call)
Work Phone(s): 301-763-7639

Office Hours: Virtual using Blackboard Collaborate **Tuesday/Friday 8:30pm-10pm**. This is a time when I can answer your questions and work through example problems (on a virtual whiteboard). If you have speakers you can hear me talk as well as see me write on the board. Please sign-up on discussion board in blackboard no later than 7pm if you plan to attend office hours for that day. If no one signs up I will not be online.

If scheduled office hours don't work for you, you can also schedule virtual one-on-one sessions by appointment. Just ask!

Course Materials:

Optional: Mark Dugopolski, *Elementary and Intermediate Algebra, 3rd Edition, McGraw-Hill 2009.*

Required: ALEKS- Online course component. See further instructions for signing up on the Blackboard course page. COURSE CODE: TKYT6-FPARC

Calculator: NO CALCULATORS ARE ALLOWED IN MATH 106

Course Objectives: This course provides an introduction to the basic techniques and functions of mathematics. This course is especially recommended for those students who need to brush up due to a shaky high school preparation or for those who haven't had a mathematics course in several years. Topics include linear equations and inequalities; quadratic equations; polynomials; and rational functions and their inverses, including the exponential and the logarithm.

Topics Include:

1- Real Numbers and Systems of Linear Equations
2- Exponents and Polynomials
3- Factoring
4- Rational Expressions and Equations
5- Rational Exponents and Radicals
6- Quadratic Equations and Functions
7- Logarithmic and Exponential Functions
8- Functions (and Graphing)

Grading & Distribution: Note the contribution of each graded item to your final grade below:

Grading			Distribution	
	Points	Percent	Grade	Percent Range
ALEKS Pie (8 *25 pts)	200	20%	A	90 - 100
Quizzes (5*40pts)	200	20%	B	80 - 89.9
Assignments (8*25pts)	200	20%	C	70 - 79.9
Final	400	40%	D	60 - 69.9
	1000	**100%**	F	00 - 59.9

ALEKS: Aleks is your text and practice material in this class. Please keep up with the course schedule as there is limited time to catch up in this short semester! There are 8 objectives. The proportion of each ALEKS objective will be averaged and will account for 20% of your grade.

ASSIGNMENTS: Topic worksheets will need to be completed by hand and scanned or photographed and uploaded to blackboard by the posted due dates. Be sure to show ALL work to support your answers. These will account for 20% of your grade. Late assignments may be penalized 2 points per day.

QUIZZES: Quizzes will be on ALEKS and will be due when noted on the schedule. Quizzes are timed and you will have two attempts to take the quiz. On the second attempt you only need to redo the problems you missed on the first attempt. The highest score for both attempts will be the quiz grade. If you feel you deserve partial credit on any missed problems after the 2nd attempt, please send an email request, and if possible show work supporting your answer. Quizzes account for 20% of your grade.

FINAL EXAM: There will be an IN PERSON final exam on UMBC's main campus on Thursday August 14th from 6:30-8:30pm(Location:TBD) The final exam accounts for 40% of your grade.

E-MAIL:
- Compose and send ALL email to instructor using UMBC email (bkegan1@umbc.edu)
- All messages should contain a subject line briefly identifying the subject and the course "MATH106".
- Email will be responded to within 24 hours, excluding weekends and holidays. If you need something answered on the weekend, text or call my mobile phone! Also after 5pm you will get a quicker response if you text me as I am often not in front of a computer in the evenings.

ACADEMIC INTEGRITY*: By enrolling in this course, each student assumes the responsibilities of an active participant in UMBC's scholarly community in which everyone's academic work and behavior are held to the highest standards of honesty. Cheating, fabrication, plagiarism, and helping others to commit these acts are all forms of academic dishonesty, and they are wrong. Academic misconduct could result in disciplinary action that may include, but is not limited to, suspension or dismissal. To read the full Student Academic Conduct Policy, consult the UMBC Student Handbook, the Faculty Handbook, or the UMBC Policies section of the UMBC Directory.*

ONLINE MATERIAL AND ASSIGNMENT SCHEDULE

START BY DATE	**COMPLETE BY DATE**	**ALEKS PIE TOPIC**	**Assignment Due Dates** (Sat and Weds)	**Quiz Due Dates**
7/7	7/11	Systems of Linear Equations (includes several pre-req topics)	#1 Due 7/12 (Sat)	
7/12	7/15	Exponents and Polynomials	#2 Due 7/16(W)	QUIZ #1 Due 7/16
7/16	7/18	Factoring	#3 Due 7/19 (Sat)	QUIZ #2 Due 7/19
7/19	7/25	Rational Expressions and Equations	#4 Due 7/26 (Sat)	
7/26	7/30	Radicals and Rational Exponents	#5 Due 7/30 (W)	QUIZ #3 Due 7/31 (Th)
7/31	8/5	Quadratic Equations	#6 Due 8/6 (W)	QUIZ #4 Due 8/6
8/6	8/8	Exponential and Logarithmic Functions	#7 Due 8/9 (Sat)	QUIZ #5 Due 8/9
8/9	8/12	Functions	#8 Due 8/12 (W)	
8/14	6:30-8:30pm	FINAL EXAM		Location: TBD