MATH 106 Online SUMMER 2012
Algebra and Elementary Functions
Session II: July 9th – August 17th

Instructor Information:

Ms. Bonnie Kegan
Mobile Phone: 410-507-9328 (VZN) *Feel free to text me with quick questions!!
Work Phone(s): 301-763-7639 (M-Th) 301-763-5695 (F)
Email: bkegan1@umbc.edu
Office Hours: Mon/Weds/Thu 8:30pm-9:30pm on UMBC gmail GCHAT or by mobile phone.
*You can also email scanned copies of handwork to me. I will review and make comments and send you a corrected/annotated copy back. This may require 24 hours.

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 ID: **3UJD4-WWGYA**

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.

Material Covered:
-Review Chapters: 4(Exponents and Polynomials), 5 (Factoring), 7(Systems of Linear Equations)

-Main Chapters: 6 (Rational Expressions), 9(Radicals and Rational Exponents), 10(Quadratic Equations and Inequalities), 11(Functions), 12(Exponential and Logarithmic Functions)

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

Grading				**Distribution**	
		Points	Percent	Grade	Points
Homework (Best 10 of 12)	10 × 40	400	40%	A	900 - 1000
Offline Quizzes	5 × 60	300	30%	B	800 - 899
Cumulative Final	1 × 300	300	30%	C	700 - 799
				D	600 - 699
	Total	1000	100%	F	0 - 599

COURSE POLICIES

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 your question to 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.
- Remember, once sent, e-mail is a permanent and official record of your concerns and a representation of yourself!

OFFLINE QUIZZES:

- Students will be expected to complete one offline quiz per week. Each quiz will cover multiple chapters. Quizzes are to be completed *individually.* Collaboration with anyone other than the instructor will result in a zero for that quiz.
- Instructor will post PDF file of the quiz on blackboard **every Friday by 12pm** for students to print and complete by hand (showing all relevant work for each problem).
- Students should upload a scanned copy of the completed quiz on blackboard (or fax to 410-455-1066 ATTENTION KEGAN MATH 106 /GRADER: B. GYORFI)
- Quizzes will be due by **3pm on Tuesdays** (7/17, 7/24,7/31,8/7,8/14). Late quizzes will receive a 5% deduction if received after 3pm but before midnight Tuesday, and then an additional 2% for each additional day late.

HOMEWORKS:

- Students will be expected to complete two online homework assignments per week. In addition to homework students should spend at least 9-12 hours per week doing practice problems and reviewing any provided concept handouts.
- Students should pay close attention to HW due dates! In order to keep up with the accelerated pace of the course and be prepared for quizzes, students should meet all required deadlines!
- *A schedule of homework due dates is included on this syllabus.*

FINAL EXAM

- All students are expected to be present for CUMULATIVE FINAL EXAM at **6:00pm on Friday August 17th (Location: TBA)**
- You should request a make-up exam **WITHIN 24 HOURS** of the missed exam (**BY PHONE-VOICE *not text***). If you have a known conflict in advance please notify your instructor as soon as possible so that alternate arrangements
- Make-up tests are only allowed under reasonable circumstances (*illness, car trouble, work, family obligation, etc.)* Unexcused absences will receive a zero for the test. Be aware that your instructor *may request documentation* of your reasonable circumstance.

ACADEMIC INTEGRITY POLICY

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.

<u>THIS IS A GEP course.</u> All general education mathematics courses:

- Have performance expectations demonstrating a level of mathematical maturity beyond Algebra II (high school intermediate algebra).
- Include development of analysis, synthesis and problem-solving skills, and introduce students to "ways of thinking" in mathematics.
- Introduce mathematical concepts and techniques that can be applied in further mathematics and/or other disciplines.
- Explore mathematical applications to other disciplines.

ONLINE MATERIAL AND GRADED ASSIGNMENT SCHEDULE

CHAPTER START BY DATE	CHAPTER COMPLETE BY DATE	Online Course	Homework and Due Dates	Quiz and Due Dates
7/9	7/15	Chapters 4, 5 and 7 (Exponents, Polynomials, Linear equations)	#1,#2 7/15	
7/16	7/22	Chapter 6 (Rationals)	#3,4 7/22	#1 Ch 4,5,7 7/17
7/23	7/29	Chapter 9 (Radicals)	#5, 6 7/29	#2 Ch 6 7/24
7/30	8/5	Chapter 10 (Quadratic Functions and Inequalities)	#7, 8 8/5	#3 Ch 9 7/31
8/6	8/11	Chapter 11 (Functions)	#9, 10 8/11	#4 Ch 10 8/7
8/12	8/16	Chapter 12 (Logarithmic and Exponential Functions)	#11,12 8/16	#5 Ch 11 8/14
8/17	6:00-8:00pm	**FINAL (Cumulative)**		Location: TBA

Tips on Using ALEKS:

- Under the REVIEW tab you can choose content to review and also access PDF files of the textbook sections or video lectures for certain textbook sections.
- While working HW problems you can view an example problem to help you.
- Use the PIE CHART for practice on topics you haven't mastered yet.