Math 102: Intermediate Algebra Syllabus

Course Prefix/Number/Title:
Math 102/Intermediate Algebra

Course Description
Properties of the real number systems, factoring, linear and quadratic functions, polynomial and rational expressions, inequalities, systems of equations, exponents and radicals.

> **Credits:** 4 Semester Credits
> **Prerequisit(s):** None
> **Delivery Method:** In class

Course Objectives/Student Outcomes
The students will
- Analyze and solve various types of intermediate algebra problems
- Utilize a hand-held calculator for solving algebra problems
- Use ALEKS as a tutoring application
- Be prepared for college Algebra, Math 103

Instructor: Connie Blair
Office: Admin RM 159
Office Hours: MTWHF, 8:00-8:50, 11:00-12:00
Email: connie.blair@minotstateu.edu

Class Schedule: 9:00-9:50am MWThF

Textbook: Miller, O'Neill, Hyde, Intermediate Algebra, 2nd Ed – E-text with ALEKS; ISBN 007709744

Course Requirements
Learning algebra is an **investment of time**. Algebra is learned best by practicing, reflecting, and practicing some more. While understanding examples provided by the instructor and textbook is a good first step, to truly master the material you should be able to look at a problem, know how to proceed and be able to carry out the steps **WITHOUT ASSISTANCE**. The independent practice in the ALEKS learning system provides opportunities for you to get to that point. Passing grades on assessments demonstrate that you have indeed mastered the skills taught.

Evaluation

Homework—5%	Homework will be submitted in ALEKS unless stated otherwise. You can find the listed homework on the course calendar in ALEKS. You may work ahead, but each homework assignments must be completed by the due date listed.
Objectives—5%	The modules listed in the course outline below are the scheduled objectives. In order to receive credit for completing these modules, they must be completed by the date listed on the course calendar.
External Assignments—10%	Made up of Pop-Quizzes. These cannot be retaken.

Assessments—20%	Made up of weekly Progress Checks that will occur when you log into your ALEKS account. These are currently scheduled for Thursdays.
Tests—60%	You have two tests, the Mid-Term on <u>February 29th</u> during normal class time and the Final Exam on <u>Tuesday, May 8th at 8:00 am</u>. Please arrange to be in class for both of these dates. ***There will be no make-ups.***

Letter grades are assigned using the following scale
A 90-100%
B 80-89%
C 70-79%
D 60-69%
F 59% or lower

Course Outline (subject to change)
Module Topics are located at the end of the Course Syllabus
Module 1: S 1.1—1.2 Due 01/24/12
Module 2: S 1.3—1.5 Due 01/31/12
Module 3: S 1.6—1.7 Due 02/07/12
Module 4: S 1.8 Due 02/14/12
Module 5: S 2.1—2.3 Due 02/21/12
Midterm Review Due 02/28/12
Module 6: S 4.1—4.3 Due 03/06/12
Module 7: S 4.4—4.5 Due 03/20/12
Module 8: S 4.6—4.8 Due 03/27/12
Module 9: S 5.1—5.3 Due 04/03/12
Module 10: S 5.4—5.6 Due 04/10/12
Module 11: S 6.1—6.3 Due 04/17/12
Module 12: S 8.1—8.4 Due 04/24/12
Final Review Due 04/27/12

General Education Goals/Objectives
<u>*Goal 3: Demonstrates the ability to convert, calculate, and analyze a variety of mathematical problems*</u>

<u>Objective 1: Utilizes mathematical equations to solve problems</u>
      Skill 1: Solves equations and problems using the appropriate method

<u>Objective 2: Applies practical application of mathematics to everday life</u>
      Skill 2: Defines and demonstrates the use of decimals, percentages, and fractions
      Skill 3: Solves word problems

Relationship to Campus Theme
The student will begin to see applications of algebra in nature, business, health, construction, etc. As they use the calculator, they can solve real life problems with large numbers. These problems will require critical thinking and interaction with other students.

Classroom Policies

- **ATTENDANCE:** The sequential nature of mathematics deems it necessary for students to attend class and *participate* on a regular basis, therefore one of the course requirements is regular attendance and will be enforced using pop quizzes.
- **ASSIGNMENTS:** Students may work ahead; however, each assignment must be completed on or before the due date.
- **ELECTRONIC DEVICES:** Turn off or mute (not vibrate) cell phones, pagers, and other electronic devices. There is absolutely no cell phone or iPod use during class.
- **WORKING AHEAD:** The purpose of ALEKS is for students to work at their own pace, while still adhering to deadlines to complete the course in the time allotted. If a student finds themselves ahead of schedule, they may take the mid-term and/or final exam early with the following conditions: The student must complete the appropriate test review in ALEKS with a 90% or better and the date they take the exam must be at least two weeks prior to the date posted on the syllabus.

Academic Integrity

The academic community is operated on the basis of honesty, integrity and fair play. It is the expectation that all students, as members of the college community, adhere to the highest levels of academic integrity. This means that

- Students are responsible for submitting their own work. Student work must not be plagiarized.
- Students must not cooperate on oral or written examinations or work together on evaluated assignments without authorization

Violations of academic principles such as cheating, plagiarism or other academic improprieties will be handled using the guidelines outlined in the Student Handbook.
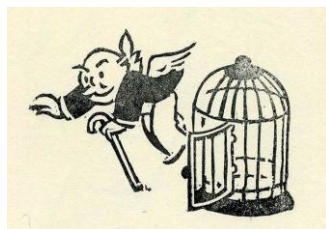
Disabilities and Special Needs

If you have a disability for which you need accommodation, please see me immediately. If you have already met with Student Developmental personnel, please provide me with the information regarding your needs so that I can make the appropriate accommodations.

Get out of Jail Free
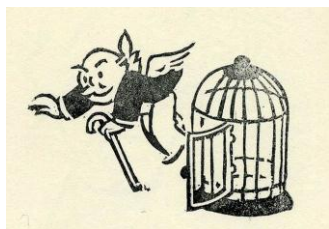
Turn in a late assignment up until the last week of the semester. This card is worth 5 points on your final exam if it is not used.

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