Math 1400 College Algebra
Syllabus – Summer 2016

Instructor: Andrew W. Herring
Office: Ross Hall 207
Office Hours: MW 11:00am-12:00pm (MAC-Ross Hall 29) R 2:00-3:00pm (Ross Hall 207)
Class Meeting Tines: MTWRF 9:10am-10:40am
Course Dates: 23 May, 2016-1 July, 2016

Exams: All three exams are cumulative with an emphasis on the most recent material.

Exams will be given during the normal class time on the following days:

Exam 1	3 June, 2016
Exam 2	17 June, 2016
Exam 3	1 July, 2016

A *non*-graphing calculator and *one* handwritten 3 in. x 5 in. note card are allowed for each exam.

Except in the case of an emergency, arrangements for a make-up exam must be made at least three days in advance of the regularly scheduled exam. What constitutes a sufficient reason for needing a make-up exam is left to the instructor's discretion.

ALEKS: There are 19 ALEKS Objectives that you will complete over the course of the semester. The purpose of these objectives is to increase your understanding of the concepts covered in class through solving problems. To get the most out of these Objectives, you should keep a notebook of your written solutions to the ALEKS problems showing all your work as you would on a quiz or an exam. Keeping a notebook of your solutions will help you to improve your mathematical writing skills and will be a helpful resource when studying for exams. Class lectures and notes should prepare you to complete the assigned topics in ALEKS.

The ALEKS Objectives and their due dates are listed in the course syllabus and in ALEKS. Your grade is based on the percentage of the topics in each objective which are added to your pie in the ALEKS software by the due date for that objective. Your two lowest ALEKS Objective scores will be dropped. Subsequent ALEKS Objectives can be started as soon as the current Objective is completed or once the due date for the current Objective expires.

Quizzes/Classwork: These assignments are designed to prepare you for exams and give you feedback on your mathematical writing skills. I anticipate there will be 9 quizzes and some other written assignments over the semester, your lowest score on such an assignment will be dropped. These assignments will typically consist of short quizzes given during the last 15 minutes of class. The content for the assignments may include any topics that have been discussed in class or by the ALEKS Objectives. The quizzes will be conducted in the same way as exams. Students should work independently and may use a non-graphing calculator and a 3x5 handwritten note card. Violation of these restrictions will result in a zero for the assignment.

Participation: You are expected to attend every lecture for the full time. Use of portable electronic devices, including laptops, is prohibited during lecture, unless you have cleared their use with the instructor. *If you must miss class, it is **your** responsibility to get with a peer and learn what was missed that day. You are responsible for all announcements and information given in class.*

Grading Policy: What follows is the breakdown for how your semester's grade will be computed:

Exam 1	23%
Exam 2	25%
Exam 3	27%
ALEKS Objectives	10%
Classwork/Quizzes	15%
Total	100%

You can estimate your letter grade by using the following scale: let x denote the percentage of points you've earned in the course. If $x \geq 90\%$ you will receive an A, if $89\% \geq x \geq 80\%$ you will receive a B, if $79\% \geq x \geq 70\%$ you will receive a C, if $69\% \geq x \geq 60\%$ you will receive a D, and if $59\% \geq x$ you will receive an F. Plus/Minus Grades will not be awarded. You must achieve a C or higher to use this course as a prerequisite for other math courses.

Getting Help: On of the most important skills a student can learn is recognizing early that they are confused with some concept or skill in the class. Once you recognize you need help, first check through your materials, such as class notes, to see if the answer is there. If you cannot solve it yourself, *please seek help*. There are lots of resources available to you to help you succeed.

Study Groups: Meet with some of your classmates and help each other with questions. Learning from your peers is one of the best ways to learn.

Office Hours: I am here to help you. You are also encouraged to come to my office hours.

MAC The Math Assistance Center (MAC) is a free walk-in tutoring center for students enrolled in 1000 and 2000 level math courses. It is in Ross Hall 29 (northwest corner, on bottom floor). Their operating hours can be found on their website at `http://www.uwyo.edu/math/mac`. You can even go there to do your homework; you do not have to ask any questions or to seek any help. It is also a good place to meet for your study groups. The MAC has several desktop computers that you can use to do your online homework.

eTutoring: The University of Wyoming offers online tutoring. Please see `http://www.uwyo.edu/studentaff/step/tutoring/resources/` for more information.

Walk-In Academic Coaching The Center for Advising and Career Services in 222 Knight Hall offers walk-in coaching to any student. They can help on a variety of topics, such as Note Taking, Time Management, Exam Preparation, Textbook Reading, Staying Motivated, Managing Finals, etc.

It is important that you try a variety of different services. If you do not receive the help you need at that time, please try again or try a different service. Don't be shy. Make sure you get the help you need!

Course Supervisor: Come to me if you are unhappy about some aspect of the course. In the event that a problem remains unresolved after our discussions, talk to Dr. Clements, the Math 1400 Supervisor, (RH 316, nclemen1@uwyo.edu).

Beginning of Semester Information

Prerequisites: The prerequisite for Math 1400 is either a C or better in Math 0925, a Math Placement Exam score of 3 within the last year, or an ACT Math score of 23 within the last three years.

Course Materials: You will be required to have an account with the online homework software ALEKS. This can be purchased either online, using a credit card, or through the University Store. At the University Store the ISBN is 9781259957925. The physical book is optional since you will have access to an electronic copy of the text through ALEKS. The textbook is *College Algebra & Trigonometry* by Julie Miller. You may purchase a bundle from the University Store which includes a physical copy of the text as well as the ALEKS access code. The ISBN for this bundle is 9781259961892. You are highly encouraged to purchase the course packet for this class. It is available in the bookstore. It will also be available on the course website. You will also need a scientific non-graphing calculator on exams.

Goals of Math 1400: This course fulfills the *Quantitative Reasoning I (Q) requirement* of the 2015 University Studies Program. Students will learn to reason and solve quantitative problems from a wide array of authentic contexts and everyday life situations. The elements of the Quantitative Reasoning (Q) experience may include numerical, logical, geometric, and algorithmic thinking as well as the integration of these modes of analysis with students verbal, creative, and critical-thinking skills. Students should demonstrate mathematical and logical skills needed to formulate, analyze, and interpret quantitative arguments in a variety of settings.

College Algebra emphasizes aspects of algebra important in the study of calculus. This includes; functions and function notation, graphs of functions, solving of equations and inequalities, polynomial, rational, exponential and logarithm functions. By the end of this course, students should be able to

- Formulate, analyze, and interpret quantitative arguments in a variety of settings.
- Solve quantitative problems from a wide array of authentic contexts and everyday situations.
- Communicate arguments in a variety of formats (e.g., words, tables, graphs, mathematical equations).
- Understand the basic properties for a variety of different types of functions.
- Develop the skills required to solve problems algebraically and graphically.
- Read and write mathematics making correct usage of terminology and notation.

College Algebra or Problem Solving: Problem Solving (Math 1000) which also fulfills the *Quantitative Reasoning I (Q) requirement* of the 2015 University Studies Program examines modern topics chosen for their applicability and accessibility. Student success tends to be higher in Problem Solving than in College Algebra. If your major does not require College Algebra, Calculus (Math 2200), or Business Calculus (Math 2350) you should consider taking Problem Solving to satisfy the Q requirement of the 2015 University Studies Program.

Academic Dishonesty and Classroom Conduct: The University of Wyoming is built upon a strong foundation of integrity, respect and trust. All members of the university community have a responsibility to be honest and the right to expect honesty from others. Cheating, plagiarism, and other forms of academic dishonesty (see UW Regulation 6-802) is unacceptable to our community and will not be tolerated. This course follows the recommendations of the College of Arts and Sciences in addition to the University Regulation 6-802 and the Student Code of Conduct. Students should report suspected academic dishonesty to the instructor. The UW regulations and the Student Code of Conduct (UW Regulation 8-30) can be found at `http://www.uwyo.edu/generalcounsel/new-regulatory-structure/academic-policy.html`. For further information on this subject check out the *Students and Teachers Working Together* link on the *Current Students* tab of the College of Arts and Sciences Homepage at `http://www.uwyo.edu/as/current-students/`

You are expected to avoid any behaviors that would be disruptive in class. Unsanctioned talking, use of cell phones, eating, sleeping, listening to music, and doing homework during classes are rude and disruptive behaviors. I reserve the right to ask you to leave or to put away any devices that are not helpful should I deem it necessary. Persistence in such behavior may get you dropped from the course.

Disability Statement: If you have a physical, learning, or psychological disability and require accommodations, please let me know as soon as possible. You must register with, and provide documentation of your disability to University Disability Support Services (UDSS) in SEO, room 330 Knight Hall. 766-6189, TTY: 766-3073.

The policies in this syllabus are subject to change. Minor changes will be announced in class and substantive changes shall be communicated in writing.