UAF DMS Guidelines for

MATH 151X –College Algebra for Calculus

1. General guidelines set by UAF; follow this link to the UAF syllabus requirements
2. GER Information (sample statement below):

This course is listed as a General Education Math Course as such this course is expected to meet the 4

- Homework
  - for online work through HAWKES, mastery level should be no less than 75%
  - instructors should provide written feedback to students approximately weekly throughout the semester; this can be through humanly-graded assignments or email correspondence
- Exams
  - at least two exams during the semester
  - exams must be timed, closed book, closed notes
  - exams should have some form of proctoring
  - use of non-graphing calculators are allowed in this course but not for Chapters 1-4
  - exams must be majority written answer (not multiple choice)
  - exams must be paper-and-pencil exams, written and graded by faculty members
  - exams should not be reused from previous semesters, limited reuse of edited problems is acceptable
- Final Exam
  - must be cumulative and representative of the entire course
  - must include problems from each Assessment Criteria listed on the next page
  - Students are expected to know on their own (no formulas provided on the test for the following):
    - equation of lines formulas
    - quadratic formula
    - exponential and logarithmic properties
    - simple and compound interest formulas

7. Assessment Criteria

Final exams should contain problems that demonstrate the students' acquired knowledge of the following topics.

- Fundamentals- Algebra
  - simplify algebraic expressions involving negative and fractional exponents, compound fractions, and rational expressions
  - solve a problem using modeling with equations q3ir0 p6@11A2 792 reW*nBT/F1 9.96 Tf1 /.02 Tm06 Tf1 0 0 1 72.02

identify the equation from a graph
graph a rational function by identifying intercepts and asymptotes

- Exponential Functions
  - graph a transformed exponential function
  - identify the equation of a graph of an exponential function
- Logarithmic Functions
  - graph a transformed logarithmic function
  - use laws of logarithms to evaluate, combine or expand logarithmic expressions
- Exponential and Logarithmic Equations
  - Solve various types of exponential and logarithmic equations algebraically
  - modeling with exponential functions

8. Grading Policy

- The syllabus must include a grading scale of [illegible] must be stated.
- Plus/minus grading is at the discretion of the instructor, but must be stated explicitly.
- Withdrawal and Incomplete policies must be stated explicitly.