SUPPORT FOR COLLEGE ALGEBRA

MATH 0999, FALL 2015

University of North Georgia

CRN # 10484; 11:00 a.m. – 11:50 a.m. MWF, Room 320

INSTRUCTOR

Name	Michael Goodroe
Office	311 B
Phone	(706) 310 - 6334
Email	michael.goodroe@ung.edu
Hours	T 01:00 PM – 03:00 PM

Important Dates			
	1.)	Add/Drop	August 17 - 21
	2.)	Withdrawal	October 12
	3.)	Final Exam	December 7
		@ 10:20 a.m. – 12:20 p.m.	
	4.)	Math Jam Fridays 12:00pm – 2:00pm	
		Room 320	

UNG Supplemental Syllabus Links:

COURSE

DESCRIPTION

A course designed to allow students to simultaneously satisfy their LS requirements and take Math 1111, an Area A math course. The course will cover the Beginning or Intermediate Algebra topics needed for the student to be successful in College Algebra. The course allows the instructor to assist the students with any deficiencies they may have while attempting the College Algebra topics. The material covered in MATH 0999 is meant to provide background information or just-in-time remediation of the topics covered in MATH 1111. Topics to be covered include: polynomial, rational, and radical expressions and equations, quadratic functions and their graphs, and systems of equations.

Credit: 3 hours.

Course Pre-requisites: Admission requirements will be determined on a semester to semester basis. Admission is dependent upon the student's MPI score. Completion of MATH 0989, Foundations of College Algebra, with a grade of "C" or higher is required if the student initially places in Foundations of College Algebra.

Course Co-requisite: MATH 1111 College Algebra, CRN 9073

COURSE OBJECTIVES

After completion of the course the student will be able to:
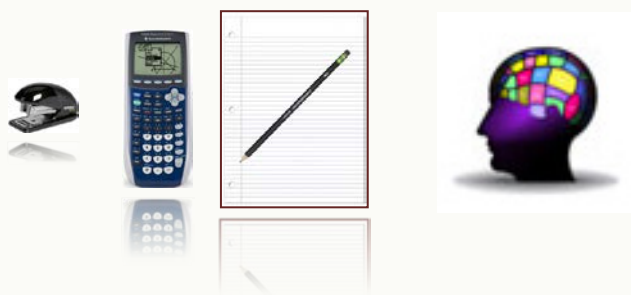
    a. Apply Introductory Algebra concepts
    b. Solve Linear Inequalities
    c. Find and Graph Equations of Lines, Understand and Apply Knowledge of Functions
    d. Algebraically Solve Systems of Linear Equations

e. Simplify and Solve Rational Expressions and Equations
f. Solve Radical Equation and Apply Properties of Complex Numbers
g. Algebraically Solve Quadratic Equations and Graph/Translate Quadratic Functions

Additionally, Students will be able to:

- Apply the order of operations
- Perform operations on fractions
- Use exponential notation, apply rules of exponents and negative exponents
- Solve linear equations
- Solve linear inequalities
- Perform operations on polynomials
- Factor polynomials
- Perform basic operations on radical expressions
- Solve quadratic equations using variety of methods including the quadratic formula
- Perform basic operations on rational expressions
- Simplify complex fractions
- Solve radical equations
- Solve rational equations
- Solve and classify systems of linear equations
- Apply function concepts and notation
- Graph a linear function
- Write an equation of a line given variety of conditions
- Solve and classify systems of linear equations

MATERIALS

Course Website: http://faculty.ung.edu/mgoodroe/index.html

Text: 1.) eTextbook - College of the Sequoias - Intermediate Algebra (**Main**)
https://www.cos.edu/Faculty/jonb/Pages/Math-230-Intermediate-Algebra.aspx

2.) eTextbook – College of the Redwoods – Intermediate Algebra (Supplemental)
http://msenux2.redwoods.edu/IntAlgText/

3.) eTextbook – College Algebra – **(Main Text for Math 1111 by Dr. Kidane)**
http://www.stitz-zeager.com/szca07042013.pdf

4.) Desmos Graphing Site (**Log on and Create an Account for *FREE*)**
https://www.desmos.com

GRADING

Your final grade will be determined as follows:

Assignments/Quizzes	70%
Final (Cumulative)	30%

EXAMS

Students need to be in the classroom and prepared to take the exam
five minutes prior to the scheduled class start time. If you will be
late, please notify me via email as soon as possible prior to the start of the exam. If you miss the exam
or come late without prior notification and re-scheduling, a grade of zero will be recorded (see make –
up policy below).

Calculator use: you may use a hand-held calculator for exams. However, you will not be permitted to
use the calculator function on your cell phone.

If you need to leave the classroom during the exam, please do so quietly and respectful of other
students.

MAKEUP WORK

No make-up of exams/quizzes/homework assignments will be given. If you miss <u>one</u> of the exams,
then your Final Exam score will replace the missed exam. If you take all exams, then the Final Exam
score will replace your <u>single</u> lowest score, assuming your final exam score is greater than your lowest
exam score.

If you know in advance that you will not be present during an exam, please notify me via email as soon
as possible to schedule taking the exam prior to the actual exam date. No exams will be scheduled
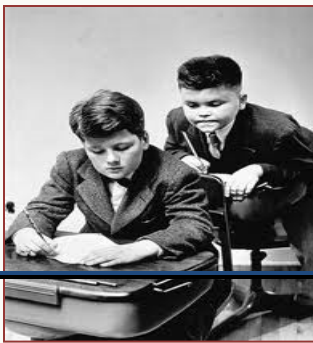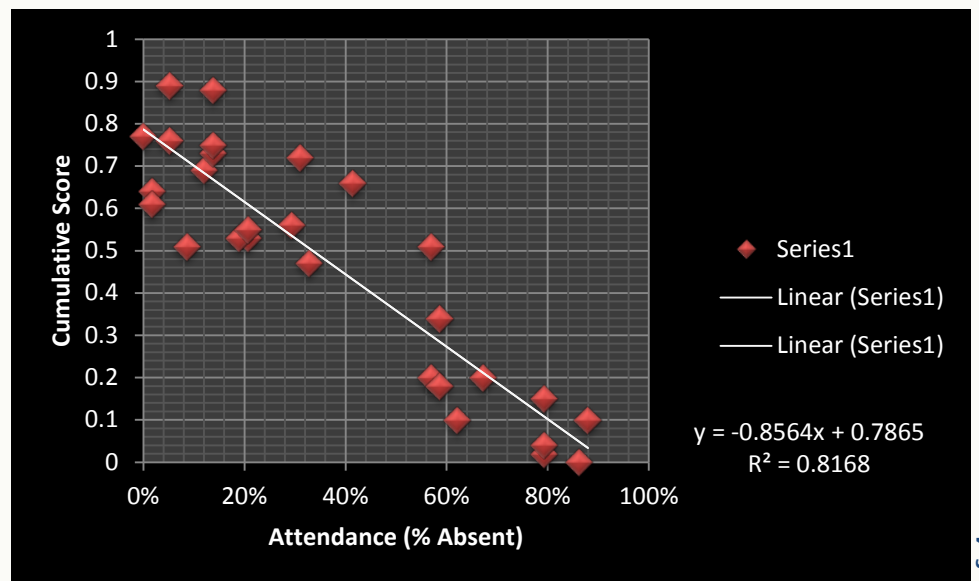**after** the actual exam date, only prior.

POLICIES

ATTENDANCE

UNG Student Attendance Policy: http://ung.edu/academic-affairs/faculty-handbook/3-faculty-responsibilities/3.7-class-attendance-policies/3.7.1-student-attendance-policy.php

Data support the fact that when students regularly attend their mathematics courses, they are much more likely to succeed. Learning mathematics requires students to engage and actively participate in mathematics. Being absent from class greatly reduces your chances to be involved in your own learning. Though attendance in this course is not an element of your cumulative score, students who regularly miss class tend to have very low scores. Therefore, I will record your attendance daily.

Below is a linear graph from a recent class, which relates the percent of student absences with student's cumulative scores. All my classes have a similar graph! As you can see, as the percent of absences increases to the right on the horizontal axis, cumulative scores decrease on the vertical axis. Conversely, the less a student is absent, say between 0% and 20%, student scores increase. I encourage you to make a personal commitment to attend class regularly and to be proactive in your own education.

Please be aware that UNG policy states that a student who has missed 10% or more in a class can/wil be "WITHDRAWN" from class either receiving a grade of "W" or "WF" depending if absences occur before or after the withdraw date! I will be recording attendance everyday starting on the first day through the last day of classes. Therefore, you can miss 6 days during the semester.

$$y = -0.8564x + 0.7865$$
$$R^2 = 0.8168$$

SCHOLASTIC DISHONESTY

See attached link of UNG's Student Conduct Code:

http://ung.edu/academic-affairs/policies-and-guidelines/supplemental-syllabus.phpb

DISTRUPTIVE BEHAVIOR

Students who exhibit behaviors which are considered to obstruct or disrupt a class or its learning activities will be considered under the Board of Regents Policy on Disruptive Behavior. **Behaviors which will be considered to be inappropriate in our classroom include sleeping, eating, coming in late/leaving early, interrupting others, talking out of turn, cell phone use of any kind, inappropriate behavior during group work, verbal or nonverbal behavior that is disrespectful of other students or the teacher.** Students who exhibit disruptive behavior will be given a verbal warning for the first infraction. If the behavior continues, the student will be asked to leave the classroom. Prior to returning to our classroom, the student will need to make an appointment to see me during office hours. Any further infractions would be referred to the Disciplinary Committee of the College.

Cell phones:

1. Should be **turned off** or in **silent mode** during all classes.
2. Should be put away and not visible during class.
3. Any use of a cell phone, including but not limited to, sending/receiving calls, texting, checking the Internet is not permitted during class, with the exception of Instructor permitted use.

Computers or Tablets:

1. Are not permitted unless prior arrangements are made with your Instructor.

MISCELLANY

USEFUL LINKS

http://ung.edu/learning-support/academic-resources.php

KHAN Academy   http://www.khanacademy.org/

Pearson's Intermath   http://interactmath.com/ChapterContents.aspx

MathTV YouTube Channel	http://www.youtube.com/user/MathTV
Purplemath	http://www.purplemath.com/
UNG-Oconee Math	https://web.ung.edu/media/MathHelp

Class Files – All in-class notes using the Smartboard will be posted daily after each class. Additionally, exam keys will be posted after each exam has been taken.

ACADEMIC SUPPORT

You are strongly encouraged to go to the SLC or LS Math Lab, study in groups, and see me for help outside of class. All of these are free! Students that get help outside of class are typically much more successful than those that do not.

SLC hours are: (Math Tutoring)

Monday-Friday   8:00 AM – 9:00 PM

http://www.gsc.edu/academics/labs/oconee/Pages/Math.aspx