FOUNDATIONS FOR COLLEGE ALGEBRA

MATH 0989, FALL 2015

University of North Georgia

CRN # 10644; 1:00 pm – 2:50pm MW; Room 320

INSTRUCTOR

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

Important Dates

1.) Add/Drop   August 17 - 21

2.) Withdrawal   October 12

3.) Final Exam   December 7
        @12:40 pm – 2:40 pm

4.) Math Jam Fridays 12:00pm – 2:00pm
        Room 320

UNG Supplemental Syllabus Links:

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

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

COURSE

DESCRIPTION

A course for students needing in-depth preparation in basic mathematics and beginning algebra. The course is required for students whose MPI scores indicate a need for the course and whose major requires College Algebra, MATH 1111. The course will cover the following topics: Real Numbers, Linear Equations and Problem Solving, Exponents and Polynomials, Linear Inequalities, Factoring Polynomials, Rational Expressions and Equation and introduce the following topics: Functions, Systems of Linear Equations, Radicals and Complex Numbers, Quadratics Equations and functions. Students required to take this course must pass with a grade of C or higher before enrolling in MATH 0999. Other students may volunteer to take the course to enhance their current math skills.

COURSE OBJECTIVES

To develop and support the student's math knowledge and skills enabling the student to be successful in MATH 0999 Support for College Algebra along with MATH 1111, College Algebra.

After completion of the course, the student will be able to:

- Identify and perform basic operations on real numbers.
- Translate sentences to algebraic expressions and equations.
- Solve linear equations..
- Use exponential notation and properties of exponents.
- Perform basic operations on polynomials.
- Factor polynomials.
- Perform basic operations on rational expressions.
- Solve a variety of application problems.
- Perform basic operations on radical expressions.
- Solve radical equations.
- Define complex numbers.
- Add complex numbers.

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

Texts: 1.) eTextbook - College of the Redwoods - Pre Algebra (**COR**
http://mathrev.redwoods.edu/PreAlgText/

2.) eTextbook – College of the Redwoods – Elementary Algebra
http://mathrev.redwoods.edu/ElemAlgText/

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

4.) eTextbook – College of the Sequoias - Intermediate Algebra
https://www.cos.edu/Faculty/jonb/Pages/Math-230-Intermediate-Algebra.aspx

5.) Desmos Graphing Site
https://www.desmos.com

GRADING

Your final grade will be determined as follows:

Exams (3)	45%
Assignments/Quizzes	30%
Final(Cumulative)	25%

EXAMS

Students need to be in the classroom and prepared to take the exam <mark>five minutes prior</mark> 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. <mark>If you miss the exam or come late without prior notification and re-scheduling, a grade of zero will be recorded</mark> (see make -up policy below).

Calculator use: you may use a <mark>simple hand-held calculator for exams</mark>. However, you will not be permitted to use the calculator function on your cell phone or any Wi-Fi device.

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

MAKEUP WORK

<mark>No make-up of exams/quizzes/homework assignments/Projects will be given</mark>. 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

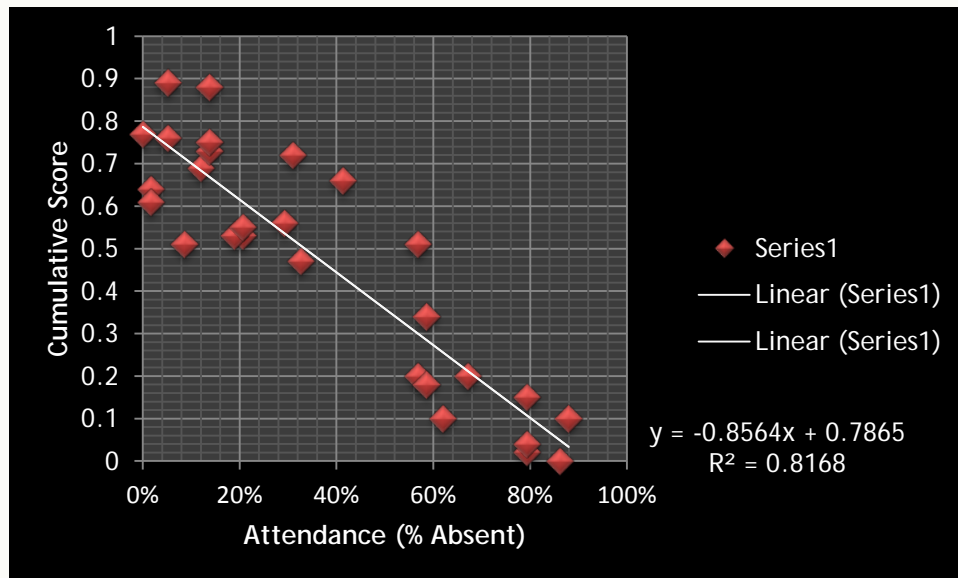UNG Student Attendance Policy: http://ung.edu/academic-affairs/faculty-handbook/3-faculty-responsibilities/3.7-class-attendance-policies/3.7.1-student-attendance-policy.php

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.

<mark>Please be aware that UNG policy states that a student who has missed 10% or more in a class can/will 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</mark>

Chart showing Cumulative Score vs Attendance (% Absent) with Series1 data points and linear trendline.

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

SCHOLASTIC DISHONESTY

See attached link of UNG's Student Conduct Code:

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

DISRUPTIVE 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. <mark>Should be put away and not visible during class</mark>.
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

<mark>KHAN Academy</mark>:   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

ACADEMIC SUPPORT

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

SRC hours are: (Math Tutoring)

Monday-Friday   8:00 AM – 9:00 PM

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

LS Math Lab hours are: (Room 311 B)

Same as Office Hours

<mark>Math Jam Fridays 12:00pm – 02:00pm in room 320</mark>