



SOUTHERN UNIVERSITY – SHREVEPORT, LA
SU College Connect Program

FALL 2020 – SPRING 2021

MASTER SYLLABUS
MATH 133S
ALGEBRA FOR COLLEGE STUDENTS

INSTRUCTOR: _____
OFFICE HOURS: BY APPOINTMENT
CLASS TIME(S)/SECTIONS: _____

OFFICE LOCATION: TBA
PHONE: _____
EMAIL: _____

Course Description:

This course places emphasis on applications involving: solving equations and inequalities; function properties and graphs; linear, quadratic, polynomial, exponential and logarithmic functions; systems of equations.

Prerequisite: ACT score of 19 or higher, ACCUPLACER Math score of 70 or higher in Elementary Algebra, **OR** Passing Math 090 with a grade of “C” or better.

Textbook and Materials:

1. *Precalculus*

Precalculus

AUTHOR(S): Lial; Hornsby; Schneider; Daniels
ISBN: 9780134306995
EDITION (YEAR): 6th (2017)
PUBLISHER: Pearson

2. MyMathLab Access Code

This item is packaged with the textbook in the campus bookstore.

The Connect Program is under contract with the Follett Book Company. The cost for the textbook/software is included in each student’s fees. The textbook, packaged with a MyMathLab access code, can be picked up from the bookstore on the HOST CAMPUS **after** the student has accepted and paid fees. Parents/students who have completed the Opt Out form, by the deadline date, are required to purchase their own textbooks and accompanying software.

Course Learning Outcomes:

After the completion of this course, the student should be able to:

1. Distinguish between linear and quadratic equations and functions.
2. Read, understand, and solve linear and quadratic application problems by interpreting, analyzing, and evaluating real world problems.
3. Solve, graph, and describe various types of equations.
4. Interpret, and solve systems of equations.
5. Solve and describe polynomial functions.
6. Solve and evaluate logarithmic and exponential functions.

Attendance:

Students are required to attend classes regularly and punctually, as a minimum academic obligation. Failure to observe this policy may seriously jeopardize a student's academic standing. Tardiness and excused absences should be brought to the attention of the instructor(s) by the student. The following class attendance policies apply:

A student required to be absent from class because of illness or other unavoidable circumstances should promptly report the reasons to the instructor and, if required present excuses. The instructor should make clear to the student that excuses explain absences, but do not remove them.

Excuses for participation in University sponsored activities will be initiated by the sponsoring unit and approved by the college division chair and the Office of Academic Affairs.

Students who wish to be absent from classes for reasons not covered by these regulations must apply to their department for a leave of absence. All excuses or explanation must be submitted in writing to the student's department head within three school days after the student returns to classes.

Make-up Policy:

A legitimate excuse must be presented to make-up any quizzes or exams. Upon receipt of the excuse, the student will have exactly one (1) week to take the make-up quiz/exam.

Academic Dishonesty:

The University defines academic dishonesty in two categories: premeditated and non-premeditated fraudulent behavior. Premeditated fraud is defined as conscious, pre-planned deliberate cheating with materials prepared in advance. It may consist of the following: collaborating during an exam without authority; stealing, buying or otherwise obtaining all or part of an examination; using specially prepared materials; selling or giving away all or part of an examination or examination information; bribing another person to obtain an examination or information; substituting for another student, or permitting another person to substitute for oneself to take an examination; submitting as one's own any work prepared totally or in part by another; selling, giving or otherwise supplying materials to another student for use in fulfilling academic requirements (e.g., term paper, course project, etc.); breaking and or entering a building or office for the purpose of obtaining examinations (administered or un-administered); changing, or being an

accessory to the changing, of grades in a grade book, on an examination paper, or on other work for which a grade is given, or a “drop slip” or other official academic records of the University which involve grades; proposing and/or entering into an arrangement with an instructor or receiving a reduced grade in a course, on an examination or any other assigned work in lieu of being charged with academic dishonesty; committing plagiarism – failing to identify sources, published or unpublished, copyrighted or copyrighted, from which information was taken; acquiring answers for any assigned work or examination from an unauthorized source; falsifying references; listing sources in a bibliography not used in academic assignment; inventing data or source information for research or other academic endeavors; forging the signature of a faculty member or any academic officer on an academic document; altering or being an accessory to altering the contents of an academic document (i.e. registration forms, pre-registration forms, add/drop forms, transcripts, fee exemption forms, registration card, etc.); using computers in an act of academic dishonesty; or submitting falsified or altered transcripts.

Un-premediated fraud is defined as cheating without the benefit of materials prepared in advance. It may consist of copying from another student’s examination paper; allowing another student to copy from an examination paper; using textbook(s) or materials brought to class but not authorized for using during an examination.

Electronic Devices in Class:

The use of cellular phones, pagers, CD players, radios, and similar devices is **prohibited** in the classroom and laboratory facilities.

Non-Discrimination/Disability Policy:

Notice of Non-discrimination. Southern University does not discriminate on the basis of race, color, national origin, sex, disability, or age in its programs and activities. To address inquiries regarding the non-discrimination policies, please contact the Office of Academic Affairs for more information at 318-670-9348.

Accommodations for Students with Disabilities. Southern University is committed to ensuring equal access to an education for enrolled or admitted students who have verified disabilities under Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990 (ADA). College policy calls for reasonable accommodations to be made for eligible students with verified disabilities on an individual and flexible basis.

Any student enrolling in Southern University with a documented disability, who requests accommodations, must first provide a current evaluation of the disability from a medical professional. This documentation, which is required by federal guidelines, will remain on file with the Section 504/ADA/Title IX Coordinator located on the HOST CAMPUS.

Instructional Techniques:

Instructional techniques that will be used in this course may include, but are not limited to:

- Lectures
- Cooperative Learning
- Technology

Grade Scale:

Southern University operates on a 4.0 grading system. Students' academic progress is evaluated according to the following grading system.

GRADE	EXPLANATION	SCALE	QUALITY POINTS
A	Excellent	90-100	4.0
B	Above Average	80-89	3.0
C	Average	70-79	2.0
D	Below Average	60-69	1.0
F	Failure	Below 60	0.0
W	Withdrawal		0.0
AU	Audit		0.0
NC	Non-Credit		0.0
CR	Credit		0.0
P	Pass		0.0

Method(s) of Evaluation:

The methods of evaluation for this course may include, but are not limited to:

- Quizzes/Exams
- Group Projects
- Homework Assignments
- Minute Papers

To be in good academic standing, students are required to maintain a cumulative 2.0 average on the 4.0 system. Each grade reported as having been earned by the student at the end of a semester or summer term will be included in computing the cumulative grade point average. The student should observe that the grade "F" carries zero quality points and will be included in the computation.



COURSE OUTLINE
Math 133S
Algebra for College Students

This outline is intended as a guideline for the course. The institution and the instructor reserve the right to make modifications in content, schedule, and requirements as necessary to enhance each student's educational experience and student learning outcomes.

COURSE OUTLINE

A. Review of Basic Concepts: All Connect math faculty members are required to administer a mathematics diagnostic within the first two weeks of the Math 133 course during regular semesters. Students' diagnostic test results will dictate if a review of basic concepts are needed. Should 50% of the course or higher score below the grade of "C" in the basic concepts covered in the text, the faculty member has options as follows:

- a. Use ONLY one class period, after the diagnostic, to discuss basic concepts. Then, assign exercises pertaining to the students' area(s) of deficiency within MyMathLab.
- b. Refer the student(s) to a math tutor who works with Connect students in a Connect tutorial lab (if available) OR in a tutorial lab provided by the host campus.

B. Chapter One: Equations & Inequalities

- a. 1.1 Linear Equations
- b. 1.2 Applications & Modeling with Linear Equations
- c. 1.3 Complex Numbers
- d. 1.4 Quadratic Equations
- e. 1.5 Applications & Modeling with Quadratic Equations
- f. 1.7 Inequalities
- g. 1.8 Absolute Value Equations and Inequalities

C. Chapter Two: Graphs and Functions

- a. 2.1 Rectangular Coordinates & Graphs
- b. 2.3 Functions
- c. 2.4 Linear Functions
- d. 2.5 Equations of Lines and Linear Models
- e. 2.6 Graphs of Basic Functions
- f. 2.7 Graphing Techniques

D. Chapter Three: Polynomial & Rational Functions

- a. 3.1 Quadratic Functions & Models
- b. 3.3 Zeros of Polynomial Functions
- c. 3.4 Polynomial Functions: Graphs, Applications, and Models
- d. 3.5 Rational Functions: Graphs, Applications, and Models
- e. 3.6 Variation

E. Chapter Four: Exponents, Polynomials, and Polynomial Functions

- a. 4.1 Inverse Functions
- b. 4.2 Exponential Functions
- a. 4.3 Logarithmic Functions

F. Chapter Nine: Systems & Matrices

- a. 9.1 Systems of Linear Equations