

Syllabus for Math 111, Section 018 Fall 2017

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Course Description

MATH 111 - Basic College Mathematics
Credits: 3

Basic college algebra; linear and quadratic equations, inequalities, functions and graphs of functions, exponential and logarithm functions, systems of equations. Credit may not be received for both MATH 111 and 115.

Prerequisites: Qualification through the Algebra version of the Math Placement Test score of 8 or higher: <http://assess.math.sc.edu/>

Class Meetings: This is a blended course. This means we will meet both in-person in class for 1 day (Wednesday) and you will work online, on your own, through Blackboard for the remainder of the week.

Schedule:

Class Meetings — W 10:50AM-11:40AM in WMBB 125
Online — Blackboard

Online: Interactive notes with videos are posted on Blackboard (<http://blackboard.sc.edu>). Students are expected to read the notes, attempt example problems, and view solution videos as necessary. **Students are strongly encouraged to maintain a notebook for the course.** You should treat this course as you would any other – you should take notes on important definitions, keep an organized copy of example problems, etc. Practice homework from each section will be posted on WebAssign (<http://www.webassign.net>), and there is a weekly graded assignment on WebAssign as well. Students who are not registered on WebAssign when an assignment is due will receive a zero on those assignments. These assignments cannot be made up. This course will meet in person once a week on Wednesday for 50-minutes (10:50AM-11:40AM) in WMBB 125. During the course meeting, we will discuss common problems, work on practice problems, and take a weekly quiz. On test days, we will spend the entire class period taking the test.

Text: *College Algebra: Concepts and Contexts*, Stewart, Redlin, Watson and Panman, 2011. ISBN: 978-0-495-38789-3 (eBook strongly recommended)

Online Instructional System: WebAssign (<http://www.webassign.net>) (Required)

Sections: Sections A2-A4, B2-B3, C1-C3, 1.3-1.8, 2.1-2.7, 3.1-3.4, 4.1-4.6 (omit Section 4.3)

Students are required to purchase WebAssign access. Students are strongly encouraged to purchase WebAssign **with** eBook access for this course. (See Getting Started with Enhanced WebAssign handout.) **Students do not need a hard copy of the text.**

Attendance and Participation: Regular attendance and participation is expected—both in person and online. As a hybrid course, your attendance to the face-to-face class meeting each week is very important. In accordance with university policy, a letter grade may be deducted for each 10% of (face-to-face) classes missed.

Withdrawal: Any student wishing to withdraw from the class should do so by Monday, October 16. Students dropping after this date will receive a WF for the course.

Learning Outcomes: Upon successful completion of this course, students should be able to:

- Factor various polynomial expressions using the methods: finding a common factor; using special formulas, including difference of squares and sum or difference of cubes; factoring a quadratic whose leading coefficient is 1; factoring a quadratic whose leading coefficient is not 1; and factor by grouping.
- Solve polynomial equations using factoring and solve quadratic equations using factoring, completing the square, and the quadratic formula.
- Work effectively with rational expressions including simplification of sums, differences, products, and quotients and solving equations involving rational expressions.
- Use order of operations, properties of exponents, function notation, properties of logarithms
- Find and interpret the average rate of change of a function using an equation, a table of values, or an equation.
- Write the equation of a linear or exponential function using two points, a table of values, or a general description of the function. Write equations of vertical, horizontal, parallel, and perpendicular lines.
- Distinguish between the growth or decay of linear and exponential functions. Solve real-world applications involving linear and exponential functions.
- Differentiate between interest compounded annually, interest compounded continuously, and other types of compound interest. Convert from one form to the other and understand the difference between the nominal and effective rates.

(All learning outcomes for this class are equivalent to the face-to-face MATH 111 course. For a detailed list of course objectives, look at the Tentative Course Schedule on Blackboard.)

Tests: There will be three tests and cumulative final exam. The *tentative* dates for these are:

- Test 1: Wednesday, October 4 on Sections A2-A4, B2-B3, C1-C3, 1.3-1.4
- Test 2: Wednesday, November 1 on Sections 1.5-1.8, 2.1-2.7
- Test 3: Wednesday, November 29 on Sections 3.1-3.4, 4.1-4.6
- Final: Friday, December 15 at 9AM in WMBB 125

Make-up exams will generally NOT be given. Exceptions may be made for documented illness/family emergency. Those with acceptable excuses must contact me within 24 hours of the scheduled exam time to schedule a make-up.

- **Test Description:** All three tests and the final exam will be a combination of short answer questions and applications where you will work out math problems. You will be graded based on a completely correct solution – not just the final answer. All steps must be correct for full credit.

Testing: All tests will be administered during the face-to-face class session.

WebAssign Homework: Practice homework using WebAssign (<http://www.webassign.net>) will be assigned at the end of every section. Students are encouraged to complete (or at the very least attempt) every assignment. Graded Assignments will be given once a week and graded via WebAssign. Students must complete each assignment online before the due date. The lowest graded assignment grade will be dropped regardless of excuse. If you have a legitimate excuse for missing more than one graded assignment, please come talk to me.

- **WebAssign Practice Homework Description:** Practice homework using WebAssign is posted at the end of every section. If you miss a question on the Practice Homework, you will be able to view the solution and access further resources to help you understand the correct solution. You can try the problem as many times as you wish and the due date will always be the date of the test on which this material appears.
- **WebAssign Graded Assignment Description:** Graded assignments will be posted once a week and graded via WebAssign. If you miss a question on a Graded Assignment, you will have 2 more chances to get the question correct, but you will not be able to view tutorials or hints. Graded assignments are usually due on Friday before 11:59pm. You will be able to access the key to these solutions after the due date, and you should review the problems you missed before the quiz on Wednesday.

In-Class Quizzes: Quizzes will be given weekly during the face-to-face class session and will be based on the homework. **No make-up quizzes will be given.** The lowest quiz grade will be dropped regardless of excuse. If you have a legitimate excuse for missing more than one quiz, please come talk to me.

- **In-Class Quiz Description:** Quizzes will be given once a week during the face-to-face class session and will be based on the most recent WebAssign Graded Assignment. Quiz Practice Problems will be posted on Blackboard on the Friday before the quiz. Students are encouraged to try all the practice problems and bring questions to the in-class meeting on Wednesday. Quizzes will be 3-5 problems and should take between 10-15 minutes at the end of class. Questions will be a combination of short answer questions and applications where you will work out math problems. You will be graded based on a completely correct solution – not just the final answer. All steps must be correct for full credit.

Typical Weekly Schedule: A typical week will look like this:

- **Monday** Graded Assignment distributed via WebAssign.
- **Friday** Graded Assignment due by 11:59pm.
Quiz Practice Problems posted on Blackboard.
- **Wednesday** Quiz during the Face-to-Face Session

Calculators: Calculators may be used on tests and quizzes unless otherwise noted. (Use of the TI-83/84 will be highly recommended for Math 122.) Use of the TI-89, TI-Nspire, or other calculator with a built-in CAS (computer algebra system) is prohibited.

Note: You may NOT store notes or formulas of any kind on your calculator. You will be asked to clear the memory on your calculator before each test. Also, you may not share calculators during a test or quiz.

Grading:

Quizzes:	50 pts (~9%)
WebAssign Graded Assignments:	50 pts (~9%)
3 Tests:	100 pts each (~18% each)
Final Exam:	150 pts (~27%)

Total:

550 pts

Letter grades will be given according to the following scale:

A :	90-100%
B+:	85-89%
B :	80-84%
C+:	75-79%
C :	70-74%
D+:	65-69%
D :	60-64%
F :	below 60%

Additional Help: For (free!) additional assistance, visit the math lab on campus. Tutors there will be able to answer most questions. The lab is located in LC 105 and the schedule is posted at <http://www.math.sc.edu/math-tutoring-center> Tutoring in the math lab is open to all students enrolled in a 100-level MATH class. You do not need an appointment – you can drop in whenever the lab is open. In addition, look for peer tutoring resources, including online tutoring, at the Student Success Center <http://www.sc.edu/success/> Finally, you are always welcome to come ask me questions. My office is LC 300G. If you cannot make it during office hours, just send me an email to request an appointment. The university offers many options for help. Do not wait until you are completely lost to seek assistance!

Supplemental Instruction: SI sessions are led by an undergraduate student who has taken this course and excelled in the course material. Your SI leader will facilitate a discussion and activities that encourage you to practice, discuss, and ask questions about the most current course material. Each SI leader holds three sessions

per week. SI schedule: <http://www.sa.sc.edu.ssc.supplementalinstruction/si-schedule/> You can also contact the Student Success Center at (803)777-1000 if you have questions about the SI schedule.

Minimum Technical Skills and Technology Requirements

Minimal technical skills are needed in this online course. All graded homework assignments in this course must be completed and submitted online. In addition, all course notes and examples are posted on Blackboard. Therefore, students **must** have consistent and reliable access to a computer and the Internet. Before starting this course, students must feel comfortable doing the following.

The minimal technical skills students should have include the ability to:

- organize and save electronic files,
- use email and attached files,
- check email and Blackboard daily, and
- register for and submit assignments via WebAssign.

(See Getting Started with Enhanced WebAssign handout.)

If you have problems with your computer, please contact University Technology Support (UTS) Help Desk at 803.777.1800 or helpdesk@sc.edu. The UTS Help Desk is open Monday – Friday from 8:00 AM – 6:00 PM. If you have problems with WebAssign, please visit the Student Support section of WebAssign <https://webassign.com/support/student-support/>

Academic Integrity

All students must review the Office of Academic Integrity sanctions. This information may be found at <http://www.housing.sc.edu/academicintegrity/sanctions.html>

One or more of the following sanctions may be imposed for Academic Integrity violations: 1) Expulsion from the University; 2) Suspension from the University for a period of no less than one semester; and/or Probation. A combination of the above sanctions may be implemented. It should be noted that submitting someone else's work is cheating and against the Carolina Code. Cheating, or any other Academic Integrity violations, will result in failure of the course for all involved parties. All parties will also be referred to the Office of Academic Integrity for additional retribution.

Copyright – As an instructor, I will provide citations and acknowledgement of any instructional materials that I use in this course that I do not create myself. All materials in this course are copyrighted and you as a student may not distribute them in any format outside of this course. This includes all materials provided either electronically or as class handouts.

Student Disability Services

Students with disabilities should contact the Office of Student Disability Services. The contact information is below:

1523 Greene Street, LeConte Room 112A

Columbia, SC 29208

Phone: 803.777.6142 Fax: 803.777.6741

Email: sasds@mailbox.sc.edu Web: <http://www.sa.sc.edu/sds/>

These services provide assistance with accessibility and other issues to help those with disabilities be more successful. Additionally, students with should review the information on the Disabilities Services website and communicate with the professor during the first week of class. Other academic support resources may help students be more successful in the course as well.

- Library Services (http://www.sc.edu/study/libraries_and_collections)
- Writing Center (<http://www.cas.sc.edu/write>)
- Student Technology Resources (<http://www.sc.edu/technology/techstudents.html>)