MATH151/152 Fall 2019

Calculus Workshop I&II

Course Information

151 (001):	LCONTE 115, 6:00pm T/TR
152 (001):	LCONTE 115, 7:35pm T/TR
	Campus Map
INSTR:	Robert Vandermolen
Drop-in Hours:	M/T/W/TR 3:00-4:00pm
	LCONTE 317-N, (803) 777-9709
	robertv@math.sc.edu

Important Dates

09/03	First Day of Class
10/10	Fall Break
11/06	Last day to drop
11/27	Thanksgiving break
12/05	Last Day of Classes
12/07	Reading Day

Important Links

Math Tutor Lab

Student Success Center

Carolina Creed

Disability Services

Academic Dishonesty Policy

Academic Calendar

Grades

This course is **Pass/Fail** and is based off participation and overall completion of the daily activities.

"In mathematics the art of proposing a question must be held of higher value than solving it."

— Georg Cantor

COURSE DESCRIPTION

MATH 151/152 is a pilot program at UofSC to help at-risk students in Calculus I/II. It is for elective credit only. The class will consist of of small study group practice in applications of calculus.

Corequisite: concurrent registration in MATH 141/142

Note: Two 2-hour sessions per week.

MATHEMATICAL PRACTICES

Students will have opportunities to engage in the following mathematical practices:

- Persist and work through perceived failure.

- Collaborate productively with a team.

- Develop a personal framework of problem solving techniques

  - make sense of problems,
  - sketch and label diagrams,
  - restate and clarify questions,
  - identify variables and parameters,
  - use analytical, numerical, and graphical solution methods

- Create, interpret, and revise real-world models and solutions of problems.

CLASSROOM ENVIRONMENT

Behavioral norms and guidelines:

- We will all try to promote a friendly and excepting atmosphere.

- We will try our best to be prepared for class each day by completing assigned readings, videos, or homework before coming to class.

- We will rely on a consensus to arrive at resolutions to questions posed in class.

- When in groups it is important to listen carfully and with respect. This includes listening with intent to understand others' strategies and questions and not dominating group conversations or classroom interactions.

- We will focus on the mathematics and critique ideas, but we will not criticize people.

- We will take responsibility of our own learning by sharing strategies and questions with the goal of communication reasoning instead of using unhelpful phrases like: "I just don't get..."

CLASS POLICIES

1. **Absences:** YOU are responsible for what goes on in class, whether you are there or not. If you miss a day of class, the instructor WILL NOT PROVIDE NOTES, get the notes from someone in class and always check blackboard

2. If you have a **Learning Disability** which will affect this class, you should contact SDS A student that may apply should contact the SDS as soon as possible concerning accommodations one needs, also contact the instructor as well and these will be accommodated.

3. I will expect you to conduct yourselves following the Carolina Creed

4. **MATH LAB:** there is a free walk-in tutoring lab in Leconte 105, open Monday-Friday. There are also paid one-on-one math tutors available. For more information about either the lab or hiring tutors, see the following link.

5. **Student Success Center:** In partnership with UofSC faculty, the Student Success Center (SSC) offers a number of programs to assist you in better understanding your course material and to aid you on your path to success. SSC programs are facilitated by professional staff, graduate students, and trained undergraduate peer leaders who have previously excelled in their courses. Resources available to students include:

   - **Peer Tutoring:** make a one-on-one appointment with a Peer Tutor by going to www.sc.edu/success. If a course is not on the semester's supported-course list, there is a process for requesting assistance. The full schedule of days/times/locations for drop-in and Online Tutoring hours can also be viewed on the SSC website.

   - **Supplemental Instruction (SI):** attend SI Sessions to focus on the most difficult content being covered in class. SI Leaders are assigned to specific sections of courses and hold three weekly study sessions that can serve as "built-in study time." The schedule is posted on the SSC website each week and will also be communicated by the SI Leader.

   - **Peer Success Consultations:** make a one-on-one Success Consultation with a Peer Consultant to work on developing study skills, setting goals, and connecting to a variety of campus resources. Your instructor may communicate with the SSC via Success Connect, an online referral system, regarding your progress in the course. If contacted by the SSC, please schedule a Success Consultation. Success Connect referrals are not punitive and any information shared by your professor is confidential and subject to FERPA regulations.

   SSC services are offered to all UofSC undergraduates at no additional cost. You are invited to call the Student Success Hotline at (803) 777-1000, visit www.sc.edu/success, or come to the SSC in the Thomas Cooper Library (Mezzanine Level) to check schedules and make appointments.

Academic dishonesty
Students may find FAQs about the University's policy on academic dishonesty (which I will abide if an incident occurs)

PROPOSED CONTENT

Exponents (Rational & Integral)	Polynomials	Radicals
Factoring Polynomials	Rational Expressions	Absolute Value Equations
Graphs in 2 variables	Systems of Linear Equations	Linear Equations
Functions and Relations	Rational Expressions	Function Transformations
Zeros of Polynomials	Rational Inequalities	Exponential Functions
Logarithmic Functions	Angles and their Measurments	Sine and Cosine Functions
Other Trig Functions	Inverse Trig Functions	Right Triangle Trig
Trig Identities	Law of Sines	Law of Cosines
Polar Equations	Polynomial Division	Basic Differentation
Basic Integration	Infinite Series	Manipulating Trig Identities