

Summer 2016 Carolina Pre-Calculus Review Program Overview

Program Description

The Carolina Pre-Calculus Review (CPR) Program is a collaboration between the Department of Mathematics, the College of Engineering and Computing, the Darla Moore School of Business, and the Student Success Center. Providing intensive pre-calculus preparation for University of South Carolina (UofSC) undergraduate students through more than twenty instructional hours, this non-credit, 6-day program intentionally reviews fundamental concepts and introduces college-level study strategies and skills critical to academic success in MATH 115/122/141/142 and other first-year courses.

CPR is designed to be an online, social, and relaxed environment with the overall goal of giving new students a “head start” at UofSC. Participants explore difficult concepts and are given the opportunity to develop relationships with students, staff, and faculty before their first day of class. Lectures and sessions are delivered by a UofSC faculty and tutor in an online format, and the program also utilizes ALEKS (link to https://www.aleks.com/about_aleks), a customized learning system from The McGraw-Hill Companies. ALEKS content and Blackboard are used to supplement course lectures and provide tailored support for each student.

Program Goals for Participants

Participants...

- explore concepts that faculty have identified as problematic for students learning calculus
- gain an understanding of college-level techniques and skills, including the integration of “*what to study*” with “*how to study*” at UofSC
- develop relationships with students, staff, and faculty before their first day of class, including a Student Success Center Peer Tutor who has been successful at UofSC
- re-take the Math Placement Exam to improve scores at the completion of the CPR Program

Sample Lecture Concepts:

CPR focuses on these concepts, which have been identified by UofSC Faculty (and through past participants’ ALEKS pre- and post-assessments) as problematic for students learning calculus.

- Exponents and polynomials
- Lines and systems
- Functions and graphs
- Rational expressions
- Radical expressions
- Exponentials and logarithms
- Trigonometry

Program Dates

- Summer 2016 Session #1: July 11th-July 16th
- Summer 2016 Session #2: August 1st-August 6th

Program Registration

- Students receive information during New Student Orientation and can sign up throughout the summer via Marketplace.
- There is a \$100.00 program fee for each 6-day session; the fee covers the cost of the Instructor-led lectures, the support of the Peer Tutor, and unique access to ALEKS (for the week of the session and for up to six weeks after the session).
- **To register for the CPR program visit: <http://sc.edu/success/cpr.html> or visit the Student Success Center homepage and click on “Help with courses” on the lefthand-side navigation menu.**
- After registering, you will be directed to the Marketplace to pay the \$100 program fee. You will also receive follow-up information from a Student Success Center staff member (a unique code and information to access the ALEKS software and online lectures).

Program Format & Participant Expectations

General Format

- Daily 1 ½-hour pre-calculus lectures with math faculty
- Access to ALEKS, an individualized assessment that identifies personal growth areas
- Daily 1-hour Group Study Session (in the form of Supplemental Instruction/Tutoring by a Student Success Center Peer Tutor)
- Daily instructor Office Hours
- Pre- and post-assessments through ALEKS

Student Expectations

Students will be expected to do the following as a participant in CPR:

- Attend and participate in daily online calculus lectures and study sessions
- Complete online ALEKS assignments
- Complete ALEKS pre- and post-assessments
- Complete post-participation survey
- Re-take the UofSC Math Placement Exam

Summer 2016 Program Schedule

- 9:30am – 11:00am Pre-Calculus Lecture
- 11:00am – 12:00pm Group Study Session (SI) held by Peer Leader
- 7:00pm – 9:00pm Drop-in Tutoring Hours
- *Evenings* *Complete ALEKS assignments on your own*
- *As needed* *Instructor Office Hours available*