

UCSC Math 11B Summer 2016

Course Information

Title: Calculus with Applications

Location and Time: Social Sciences 2, Room 71; Monday, Wednesday, and Friday 9:30 am – 12:00 pm

Website: UCSC eCommons

Textbook: Biocalculus (Calculus for Life Sciences), Stewart and Day [custom edition for UCSC]

Prerequisites: course 11A or 19A or Applied Mathematics and Statistics 15A or AP Calculus AB exam score of 4 or 5, or BC exam score of 3 or higher, or IB Mathematics Higher Level exam score of 5 or higher. Prerequisites waived for non-UCSC students

Description: Starting with the fundamental theorem of calculus and related techniques, the integral of functions of a single variable is developed and applied to problems in geometry, probability, physics, and differential equations. Polynomial approximations, Taylor series, and their applications conclude the course. Students cannot receive credit for this course and course 19B, or Applied Mathematics and Statistics 11B and 15B, or Economics 11B.

Instructor Information

Salvador Guerrero
saguerre@ucsc.edu

Office Hours: Monday,
Wednesday, and Friday 12 – 1

TA Information

Jiaqi Chen
jche133@ucsc.edu

Sections: Tuesday and Thursday
12 – 2, North Science Annex 102
Office Hours: Tuesday and
Thursday 2 – 3

Tutor Information

Wesly Lim welim@ucsc.edu

Registration Dates

Enrollment Deadline: 6/28

Deadline to Change grading Option: 8/5

Drop Deadline (with refund): 8/1

Withdraw Deadline (no refund): 8/12

Evaluation

WebAssign HW (4 points): will cover reading material and are due by lecture; code **ucsc 6968 7902** (can also be submitted on paper instead).

Quizzes (2 points each): taken during each section, only one per week counts.

Written HW (4 points each): 4 assignments mostly consisting of “projects” in textbook. (details in eCommons)

Project (20 points): choose from a list of projects similar to “case studies” in textbook. (details in eCommons)

Midterm Exam (20 points): there will be one midterm, covering integration and antiderivatives. Missed exam may be made up at home for half credit. Date TBA.

Final Exam (30 points): Final Exam will be comprehensive and take place on 8/26 from 9:30 am – 12:00 pm.