Instructor. Dr. Ian Knowles, Room 481A, Campbell Hall, (205) 934-2154.
Office Hours. MTuWTh 3-4pm, or drop in, or call for an appointment.
Textbook. Not allowed in this course.
Prerequisite Courses. MA440, or permission of instructor.
Spring Term Dates: Tuesday January 4 – Wednesday May 4.
Class Meetings. MTuWTh: 4:00 – 4:50pm, Room EB135.
Syllabus. Construction of the real numbers from the rationals, continuous functions, differential calculus, introduction to integral calculus and the Riemann-Darboux integral, infinite series, exponential and logarithm functions, sine and cosine functions, complex numbers.
Grading. This course is taught using the Socratic method. There are no examinations. Students present their own proofs of theorems chosen from a preassigned theorem list, receiving one point for each correct proof. Grades are determined solely from the total number of recitation points received. MA541 students are expected to perform at a higher level than MA441 students with respect to the clarity and rigor of their presentations.