MATH 317–Calculus IV

Section 202. MWF 12–1 in Leonard S. Klinck Room 460.

Instructor: Ed Perkins
email: perkins@math.ubc.ca (only if other methods of contact are not possible)
Course webpage: http://www.math.ubc.ca/~perkins/teaching.html
Office Hours: (To be confirmed) Monday 1:20-2:50, Thursday 2:15-3:45 or by appointment. (On occasion the Thursday office hour will be replaced by Friday 1:20-2:50–this will be announced on Wed.)


Suggested Reading *Div, Grad Curl and all That*, by H. M. Schey

Course Outline

The course will be based on chapters 14 and 17 of Stewart’s text.

1. Vector-valued functions of one variable (Ch. 14):
Parameterized curves, arc length, curvature, normal and binormal vectors, velocity and acceleration, Kepler’s Laws.

2. Vector-valued functions of several variables (Ch. 17):
vector fields, line integrals, conservative fields, Green’s theorem, grad, div and curl, surfaces, surface integrals, Stokes’ theorem, divergence theorem.

Grading Scheme

Weekly Assignments (posted on the course webpage) : 15
Two Tests: 35
Final exam: 50

Weekly homeworks will be assigned and collected on Wednesday. Homeworks handed in on the following Fri. will be given a *. Each student has two free *’s. After that, the grade will be divided by 2. No assignments will be accepted after Fri.

There are two sections of Math 317. Both sections cover the same material, have the same grading scheme, and will write the same examination. For obvious reasons the midterms will be distinct. Efforts will be made to make the assigned Homeworks identical or at least very similar.

Policy on missed assignments and tests.

Students who are unable to hand in a homework due to a medical or equivalent excuse may have that homework not count towards their final grade.

Missing a test normally results in a mark of zero. Exceptions are granted only with prior consent of the instructor or due to a medical emergency. In the latter case, the instructor must be notified within two working days of the missed test and presented with a doctor’s note immediately upon the students return to UBC. If an exception is granted for a missed test, the final exam will be used to make up that portion of the grade.