Teaching Plan

There were 7 weeks from May 15 to June 26, 2017. There are 14 meetings. Two tests (1.5 hr each) take up 1 meeting so there are exactly 13 meetings for teaching. Every meeting lecture 1:30-4:15 pm, break 15 min, in-class exercise 4:30-4:50, tutorial 4:50-5:15.

- May 17   Dot product, Euclidean motions

- May 19 Cross product; planes

- May 22 Lines, quadratic surfaces

- May 24   Parametric curves, arc-length

- May 29   Graph and polar curves

- May 31   Test 1 (1.5 hr). Kepler's Law (optional)

- June 05 Open and closed sets; continuity of functions

- June 07 Partial differentiation, differentiation

- June 12 Differentiation continued, chain rule

- June 14   Gradient, directional derivatives, differentials

- June 19   Test 2 (1.5 hr). Surfaces, curves, Implicit Function Theorem

- June 21   Inverse Function Theorem; extremal problems, existence of extrema

- June 23 Unconstrained extremal problems

- June 26 Constrained extremal problems