MAT 372 Advanced Calculus II

Instructor: Professor Don Jones, WXLR 623.

Time: TTh 10:30-11:45, LL 221.

Text: The Elements of Real Analysis 2nd Edition, Robert G. Bartle.

Prerequisite: MAT 371.

Note: MAT 372 counts as an Advanced Course in Mathematics towards the BS degree and the Stats BS degree.

Topics: The course is a multi-dimensional version of MAT 371. It will cover the topology of \mathbb{R}^n , differentiation in \mathbb{R}^n , extremum problems, open mapping theorem, implicit function theorem, and integration in \mathbb{R}^n .