

1077-N5-288

**Robert L Brabenec\*** ([robert.brabenec@wheaton.edu](mailto:robert.brabenec@wheaton.edu)), Department of Mathematics, Wheaton College, Wheaton, IL 60187. *Some of my Suggested Topics and Techniques for the Real Analysis Course.*

In order to include some review of calculus while reinforcing the need for rigor in analysis, I have students develop in careful axiomatic form such topics as the derivative formulas for the transcendental functions or the proofs for convergence tests of infinite series. I have used a wide variety of techniques while teaching a real analysis course over the past 45 years. A recent technique involves dividing the class into small discussion groups (last year I divided a class of 18 students into 3 groups of 6 students each) that meet with me for one hour each week. In this setting, I ask a variety of questions over the material of the previous week to which students must respond. Their responses are part of the course grade. I will describe some sample sessions and share student evaluations of this technique. (Received August 18, 2011)