

1067-Z1-1990 **Josip Derado*** (jderado@kennesaw.edu), Dept. of Mathematics and Statistics, Kennesaw State University, 1000 Chastain Rd, Kennesaw, GA 30144. *How to teach college classes with a large diversity in students abilities and interest.*

A common problem we are facing in today's college environment is a large diversity in students abilities to do mathematics and their interest in mathematics. The problem is the most prevalent in the entry level courses, like calculus. The student body is a mixture of students whose majors vary from math to biology or business. As a result the students ability and their interest differ significantly. For example, while the math students would like to see more proofs in the course, biology major would be more interested in pure computational aspects of the course. In the first year courses, the students ability and the knowledge and understanding of mathematics they brought from the high school varies significantly.

We developed the teaching method appropriate for the college settings which would assess the problem and allow an instructor to successfully adopt his teaching to accommodate the student body. The method is based on a differentiation of assignments according to students' individual progress throughout the course and their individual interest.

The paper presents the method and the analysis of the data obtained from the application of the method in the last 3 years at Kennesaw State University. (Received September 22, 2010)