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Development of a calculus supplement learning program for university students.

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Summary: The purpose of this study was to develop an effective Calculus Supplement Learning Program for university students who are from liberal arts and investigate how the program affects their achievement in and attitudes to mathematics. we analyzed their answer sheets and interview reports with qualitative methods. After adapting the program, students recognized that mathematical concepts and definitions were very important to study college calculus. Also, they picked up how to learn mathematics in college. Finally, we found that students could develop their abilities of proof, problem solving, and logical thinking through the program.

Classification: I45 I55 C95 C35 C25

Keywords: calculus; supplement learning program

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