

# ***BUSINESS MATHEMATICS I AND II***

## **Math 115 a and b**

Richard B. Thompson  
Department of Mathematics  
University of Arizona

Christopher G. Lamoureux  
Department of Finance  
University of Arizona

### **OBJECTIVES**

At the University of Arizona ***Business Mathematics I*** and ***II*** form a cohesive program of quantitative methods for undergraduate business majors. Due to their substantial mathematical content, these courses are taught by the Mathematics Department.

The primary objective of ***Business Mathematics I*** and ***II*** is to prepare students for subsequent work in the Business College and for their future careers in business. For this reason, all aspects of the program follow business practices and use common tools of the business world. Specifically, students are to use a teamwork approach, applying mathematical tools to obtain quantitative information that is relevant to business decisions. Mathematical concepts are to be well understood, and supported by computational facility with computers. In addition to teamwork, each student is expected to attain individual competence in all phases of the coursework.

### **STRUCTURE**

It is expected that the following course structure will be used in all sections to support the course objectives at the University of Arizona.

- ❖ Mathematical content will be motivated by, and illustrated with, applications to major projects, leading to business decisions.
- ❖ All students are expected to develop and demonstrate computer skills with *Excel*, as needed for computation and simulation with the mathematical concepts and projects.
- ❖ All students are to work in teams, as they apply mathematical tools to the projects and prepare project reports. Developing the ability to function effectively in group-work settings is a major component of the program, and work done by a team will count toward the individual grades of its members.
- ❖ Teams will present preliminary oral reports, final written reports, and final oral reports on all projects. These will be made in acceptable business style, using word processing and *PowerPoint*.
- ❖ In addition to reports, all students are expected to demonstrate their mastery of the course content via graded homework assignments and examinations. Homework is to be submitted with business quality word processing or *Excel* files, as directed by the instructor. Examinations may be taken with pencil and paper, with computers, or with a combination of these tools.
- ❖ Individual instructors are encouraged to use any additional methods of evaluation, such as quizzes or outside of class work, that will promote the program objectives.