BMG 54 Course Outline as of Fall 2010

CATALOG INFORMATION

Dept and Nbr: BMG 54   Title: QUANT SKILLS - MATH
Full Title: Quantitative Skills/Math
Last Reviewed: 4/19/2010

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	3.00	Lecture Scheduled	3.00	17.5	Lecture Scheduled	52.50
Minimum	3.00	Lab Scheduled	0	6	Lab Scheduled	0
		Contact DHR	0		Contact DHR	0
		Contact Total	3.00		Contact Total	52.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 105.00   Total Student Learning Hours: 157.50

Title 5 Category: AA Degree Applicable
Grading: Grade Only
Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP
Also Listed As:
Formerly:

Catalog Description:
Quantitative methods and their uses for solving organizational problems. Development of skills in mathematics, quantitative analytical tools, financial calculations and analysis, statistics and presentation of data in a managerial context.

Prerequisites/Corequisites:

Recommended Preparation:
Successful completion of standard 1st year high school algebra course.

Limits on Enrollment:

Schedule of Classes Information:
Description: Quantitative methods and their uses for solving organizational problems. Development of skills in mathematics, quantitative analytical tools, financial calculations and analysis, statistics and presentation of data in a managerial context. (Grade Only)
Prerequisites/Corequisites:
Recommended: Successful completion of standard 1st year high school algebra course.
Limits on Enrollment:

Transfer Credit: CSU;
Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	**Area**		**Effective:**	**Inactive:**
	MC	Math Competency	Fall 1981	Fall 2009
CSU GE:	**Transfer Area**		**Effective:**	**Inactive:**
IGETC:	**Transfer Area**		**Effective:**	**Inactive:**

CSU Transfer: Transferable   Effective: Fall 1981   Inactive: Fall 2016

UC Transfer: Effective: Inactive:

CID:

Certificate/Major Applicable:
Both Certificate and Major Applicable

COURSE CONTENT

Outcomes and Objectives:
Upon completion of the course, students will be able to:
1. Calculate fundamental math operations in a variety of common modes.
2. Design, manipulate, and solve basic equations.
3. Formulate and solve quantitative operations in the areas of purchasing, pricing, depreciation, and inventory management.
4. Analyze data, including financial statements.
5. Calculate and compare loans and investments.
6. Assemble, arrange, and calculate statistical data.

Topics and Scope:

A. Basic mathematics operations
   1. numerical operations
   2. solving equations
B. Mathematics for business
   1. purchasing
   2. pricing
   3. inventory and overhead
   4. depreciation
   5. financial statement analysis and distribution of profits
C. Financial mathematics
   1. simple interest and simple discount
   2. compound interest
   3. amortizing a debt
   4. comparing investments
D. Mathematics for presentation and analysis of information
   1. elementary statistics
   2. graphs

Assignment:

1. Problem solving exercises in all of the content areas
2. Weekly quizzes
3. 4 - 5 exams and a final

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

None, This is a degree applicable course but assessment tools based on writing are not included because problem solving assessments are more appropriate for this course.	Writing 0 - 0%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Homework problems	Problem solving 10 - 20%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

None	Skill Demonstrations 0 - 0%

Exams: All forms of formal testing, other than skill performance exams.

Quizzes, exams, and final	Exams 80 - 90%

Other: Includes any assessment tools that do not logically fit into the above categories.

None	Other Category 0 - 0%

Representative Textbooks and Materials:
Contemporary Mathematics for Business and Consumers, author Robert A. Brechner 5th ed. 2008, South-Western Cengage Learning.