#### **BMG 54 Course Outline as of Fall 1981**

## **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	<b>Course Hours Total</b>	
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, statistics, and graphical presentation of data in a managerial context.

## **Prerequisites/Corequisites:**

# **Recommended Preparation:**

Successful completion of standard 1st year HS algebra course.

#### **Limits on Enrollment:**

#### **Schedule of Classes Information:**

Description: Enjoy learning how to translate math concepts into everyday working tools. A practical approach to numbers & how they work in personal & professional decision making. (Grade Only)

Prerequisites/Corequisites:

Recommended: Successful completion of standard 1st year HS 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:**

Certificate Applicable Course

## **COURSE CONTENT**

### **Outcomes and Objectives:**

Students will learn:

- 1. techniques in fundamental math operations;
- 2. manipulation and solution of equations;
- 3. quantitative operations in purchasing, pricing, depreciation, inventory management;
- 4. elementary analysis of financial statements;
- 5. to calculate and compare loans and investments;
- 6. to create and present statistical data;
- 7. graphing techniques.

# **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. graphs

## 2. elementary statistics

### **Assignment:**

Problem solving exercises in all of the content areas.

#### 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, Exams

Problem solving 80 - 90%

**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.

None

Exams 0 - 0%

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

ATTENDANCE AND PARTICIPATION.

Other Category 10 - 20%

## **Representative Textbooks and Materials:**

OPERATIONAL MATHEMATICS FOR BUSINESS, Pierce/Tebeaux.