_____SOUTH SEATTLE COMMUNITY COLLEGE_____

<div align="right">Academic Programs</div>

COURSE OUTLINE
Revision: J. Zou, R. Dorman, O. Shatunova, April 2008

DEPARTMENT: Academic Programs

CURRICULUM: Mathematics

COURSE TITLE: Applications to Mathematics to Management, Life and
                       Social Sciences

COURSE NUMBER: MATH 116

TYPE OF COURSE: Academic Transfer
     Special Requirement Met: QSR

AREA(S) OF KNOWLEDGE: The Natural World: Science, Technology, and the
                       Environment/ The Language of Science

COURSE LENGTH: 1 quarter

CREDIT HOURS: 5

LECTURE HOURS: 55

LAB HOURS: 0

CLASS SIZE: 35 (25 when online)

PREREQUISITES: MATH 098 with a 2.0 or better or appropriate
                       placement score.

COURSE DESCRIPTION:

Mathematical models, graphs, and algebraic functions in finance, management, life and
social sciences, matrices, inequalities, exponential and logarithmic functions.

MATH 116 Applications of Mathematics to Management, Life and Social Sciences
April 2008

STUDENT LEARNING OUTCOMES ADDRESSED:

1. Computation – Use arithmetic and other basic mathematical operations as required by program of study. Apply quantitative skills for personal, academic and career purposes.
2. Communication – Read and listen actively to learn and communicate.
3. Critical Thinking and Problem Solving – Think critically in evaluating information, solving problems and making decisions.
4. Technology – Select and use appropriate technological tools for personal, academic and career tasks.
5. Personal Responsibility – Be motivated and able to continue learning and adapt to change. Value one's own skills, abilities, ideas and art. Take pride in one's work. Be aware of civic and environmental issues.

GENERAL COURSE OBJECTIVES:
   To learn the use of the basic tools of algebra as problem solving aids as a means of preparing for business calculus.

TOPICAL OUTLINE CONTINUED:

   I.   Algebraic concepts
   II.   Linear equations and functions
   III. Matrices
   IV.   Inequalities and linear programming
   V.   Quadratic functions
   VI.   Exponential and logarithmic functions
   VII. Mathematics of finance

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SLO #	Included in Course Objective Number	SSCC Student Learning Outcomes
SLO 1.1	1	Communication - Read and listen actively
SLO 1.2		Communication - Speak and write effectively
SLO 2.1	1	Computation - Use mathematical operations
SLO 2.2	1	Computation - Apply quantitative skills
SLO 2.3	1	Computation - Identify, interpret, and utilize higher level mathematical and cognitive skills
SLO 3.1		Human Relations - Use social interactive skills to work in groups effectively
SLO 3.2		Human Relations - Recognize the diversity of cultural influences and values
SLO 4.1	1	Critical Thinking and Problem Solving -
SLO 5.1	1	Technology - Select and use appropriate technological tools
SLO 6.1	1	Personal Responsibility - Be motivated and able to continue learning and adapt to change
SLO 6.2	1	Personal Responsibility - Value one's own skills, abilities, ideas and art
SLO 6.3	1	Personal Responsibility - Take pride in one's work
SLO 6.4		Personal Responsibility - Manage personal health and safety
SLO 6.5	1	Personal Responsibility - Be aware of civic and environmental issues
SLO 7.1		Information Literacy - Access and evaluate information
SLO 7.2		Information Literacy - Use information to achieve personal, academic, and career goals, as well as to participate in a democratic society

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