

LSC Use Only
Number: _____
Action: _____
Date: _____

UWUCC Use Only
Number: 92-11
Action: App
Date: 12/7/92
Senate App 2/2/93

CURRICULUM PROPOSAL COVER SHEET
University-Wide Undergraduate Curriculum Committee

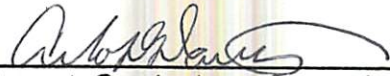
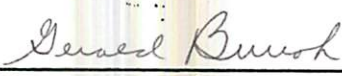
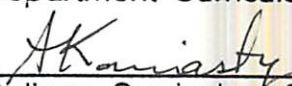
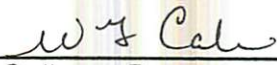
I. Title/Author of Change

Course/Program Title: MA 445 Programming Models in Operations Research
Suggested 20 Character Course Title: PRGM MDLS OPNS RES
Department: Mathematics
Contact Person: Gerald Buriok

II. If a course, is it being Proposed for:

Course Revision/Approval Only
 Course Revision/Approval and Liberal Studies Approval
 Liberal Studies Approval Only (course previously has been approved by the University Senate)

III. Approvals

<u></u> Department Curriculum Committee	<u></u> Department Chairperson
<u></u> College Curriculum Committee	<u></u> College Dean *
_____ Director of Liberal Studies (where applicable)	_____ Provost (where applicable)

*College Dean must consult with Provost before approving curriculum changes. Approval by College Dean indicates that the proposed change is consistent with long range planning documents, that all requests for resources made as part of the proposal can be met, and that the proposal has the support of the university administration.

IV. Timetable

Date Submitted to LSC: _____	Semester to be implemented: _____	Date to be published in Catalog: _____
to UWUCC: _____		

Part II.

1. Catalog Description

MA 445 Programming Models in Operations Research 3c-01-3sh

Prerequisites: Two-semester sequence of calculus, and MA 171 or permission of instructor.

Development of deterministic mathematical models for managerial and social sciences with relevant computational techniques.

Part II.

2. Listing of Proposed Change.

The only change proposed is in prerequisite.

Old Prerequisite: Two-semester sequence of calculus.

New Prerequisite: Two-semester sequence of calculus, and MA 171 or permission of instructor.

a) Old catalog description:

MA 445 Programming Models in Operations Research 3c-01-3sh

Prerequisite: Two-semester sequence of calculus.

Development of deterministic mathematical models for managerial and social sciences with relevant computational techniques.

b) New catalog description:

MA 445 Programming Models in Operations Research 3c-01-3sh

Prerequisites: Two-semester sequence of calculus, and MA 171 or permission of instructor.

Development of deterministic mathematical models for managerial and social sciences with relevant computational techniques.

3. Justification for Proposed Change.

One of the primary algorithms of this course, the Simplex Algorithm, requires that the student be able to perform with ease elementary row operations on matrices, calculate a matrix inverse, and multiply matrices. In fact, applying the Simplex Algorithm, and the analysis of problems in which this algorithm is used, makes up approximately fifty percent of this course. Past experience has shown that students who have not completed an introductory linear algebra course where matrix manipulation is taught, such as MA 171, do poorly in the course.

October 28, 1992

TO: Dr. Hilda Richards
Provost

FROM: William G. Cale *10/28/92*
Dean, NSM

RE: Curriculum Changes

Attached please find curriculum proposals from the Geoscience and Mathematics departments. The proposed changes will require no additional resources to implement.