CURRICULUM PROPOSAL COVER SHEET
University–Wide Undergraduate Curriculum Committee

I. Title/Author of Change

Course/Program Title: _MA 219 Discrete Mathematics_

Suggested 20 Character Course Title: _MA219 Discrete Mathematics_

Department: _Mathematics_

Contact Person: _Gerald Buriok_

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

___x___   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

_____
Department Curriculum Committee

_____
Department Chairperson

_____
College Curriculum Committee

_____
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: _____

to UWUCC: _____

Semester to be
implemented: _____

Date to be
published
in Catalog: _____

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Part II. Description of Curriculum Change

1. Catalog description of the revised program.

MA 219 Discrete Mathematics

Prerequisite: CO 110 and MA 123 or MA 127 or MA 122

Topics include set algebra, mappings relations, semigroups, groups, directed and undirected graphs, Boolean algebra, and propositional logic, with examples and applications of these to various areas of computer science. Emphasis placed on developing an intuitive understanding of basic structures rather than formal theories and influence of these topics on theory and practice of computing.

2. Summary of changes and rationale.

The proposed change is in the prerequisite. MA 219 was developed specifically for computer science majors, at the request of the Computer Science Department. Since the original catalog description was written in the late 1970's, the Computer Science Department has changed their mathematics requirement from two semesters of calculus to MA 123 or MA 127, or MA 121 and MA 122. The prerequisite change for MA 219 reflects this change. MA 219 does not rely upon specific material covered in a calculus course. The prerequisite is meant to reflect that this course requires some mathematical and computing maturity.