# College Document \# <br> _COAS 137_ <br> UCC Document \# <br> 136 <br> Date Received <br> $\qquad$ 

CATALOG YEAR 2011-2012

COLLEGE/SCHOOL:
Current Catalog Page(s) Affected
Course:
(check all that apply)

Add: $\qquad$
Change:

COAS
on line

Delete:
Number $\qquad$ Title $\qquad$ SCH $\qquad$ Description $\qquad$ Prerequisite __x__

If new, provide Course Prefix, Number, Title, SCH Value, Description, prerequisite, and lecture/lab hours if applicable. If in current catalog, copy and paste the text from the catalog and indicate changes in red.

Justification: To make the prerequisite more specific for MATH 5315.
MATH 5315 Combinatorics. Three semester hours.
This course discusses discrete mathematical structures, especially the enumeration and the optimization problems related to them. Algorithmic (constructive) aspects will be emphasized. Course work involves computer programming projects. Topics include: basic tools of combinatorics, graphs and networks, relations, the counting problems, the existence problems, the combinatorial optimization. Prerequisite: knowledge equivalent to MATH 3365, COSC 1336, and COSC 1136 Graduate standing and permission of instructor.

College Introductory Pages: Add information: $\qquad$ Change information: $\qquad$
Attach new/changed information. If in current catalog, copy and paste the text from the catalog and indicate changes in red.

## Approvals:

Signature
Date

## Chair

Department Curriculum Committee
Chair
Department
Chair
College Curriculum Committee
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