

**CATALOG YEAR 2011-2012**

COLLEGE/SCHOOL : COAS

Current Catalog Page(s) Affected on line

**Course:** Add: \_\_\_\_\_ Delete: \_\_\_\_\_  
(check all that apply) Change: Number \_\_\_\_\_ Title \_\_\_\_\_ SCH \_\_\_\_\_  
Description \_\_\_\_\_ 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 5303.

MATH 5303 Number Theory I. Three semester hours.

This first course in number theory introduces algebraic number theory as well as the analytic methods. Topics include: Number fields, algebraic integers, ideals and units, ideal class groups, ramification theory, quadratic and cyclotomic fields, zeta-functions and L-series. Prerequisite: **knowledge equivalent to MATH 3310, recommended MATH 4305** ~~Graduate standing and permission of instructor.~~

**College Introductory Pages:** Add information: \_\_\_\_\_ Change information: \_\_\_\_\_  
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	_____	_____
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Dean	_____	_____