



CATALOG YEAR 2006-2008

COLLEGE: Arts and Sciences

Current Catalog Page(s) Affected p.315

Course: **MATH 4315** Add: Delete: Change: Number Title X
(check all that apply) SCH Description X Prerequisite

If new, provide Course Prefix, Number, Title, SCH Value, Description, prerequisite, and lecture/lab hours if applicable. If in current catalog, provide change and attach page with changes in red and provide a brief justification.

Old:

MATH 4315 *Galois Theory* Three semester hours. (FL)

Introduction to the theory of equations and field extensions. Prerequisite: MATH 4310.

New:

MATH 4315 *Abstract Algebra II* Three semester hours. (FL)

Continuation of MATH 4310. Topics in group theory: group actions, Sylow theorems, fundamental theorem of Abelian groups, and finite simple groups. Topics in Ring theory: ideals and quotient rings, Euclidean domain, principal ideal domain and unique factorization domain. Topics in Field theory: vector spaces, field extensions, finite field, and Galois theory.

Prerequisite: MATH 4310.

Justification: Change clarifies that this course is in sequence with MATH 4310, and expands its description to be explicit about its contents

Program: Add: Change:

Attach new/changed Program of Study description and 4-year plan. If in current catalog, provide change and attach page with changes in red.

Minor: Add: Delete: Change:

Attach new/changed minor. If in current catalog, provide change and attach page with changes in red.

Faculty: Add: Delete: Change:

Attach new/changed faculty entry. If in current catalog, provide change and attach page with changes in red.

College Introductory Pages: Add information: Change information:

Attach new/changed information. If in current catalog, provide change and attach page with changes in red.

Approvals:

Signature

Date

Chair

Department Curriculum Committee

Chair

Department

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College Curriculum Committee

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