COLLEGE:            ____Arts and Sciences_____

Current Catalog Page(s) Affected      ____p. 315_____

**Course: MATH 4310** 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 4310** *Abstract Algebra* Three semester hours. (SP)
Rings, fields; groups and group actions. Prerequisite: MATH 3365.

**New:**
**MATH 4310** Abstract Algebra I Three semester hours. (SP)
Introduction to abstract algebra.  Topics include Introduction to Ring theory: arithmetic in integers, modular arithmetic, fields, arithmetic in the Ring of polynomials. Unique factorization in integers and polynomials. Introduction to Group theory: definition and examples, subgroups, quotient groups, symmetry groups and permutation groups. Prerequisite: MATH 3365.

**Justification:** Change makes clear to students that there are two courses in sequence, and clarifies the contents of this course.

**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<br>Department Curriculum Committee | _____ | _____ |
| Chair<br>Department | _____ | _____ |
| Chair<br>College Curriculum Committee | _____ | _____ |
| Dean | _____ | _____ |