Course Title: <u>Supervised Study: Conics Sections and Herren's Formula</u>

Course Description:

Assigns problems for independent study incorporating previous instruction and supervised by the instructor. Presents Conics Sections and Herren's Formula. Prerequisite: Completion of MTH 161. Lecture 1 hour per week. 1 credit

General Course Purpose:

The course is designed to be an independent study, distance learning mathematics course that provides the content not covered in VCU's course, MATH 151. By completing this course, students transferring MATH 151 (Precalculus Mathematics) to Reynolds from VCU will have covered all of the content in Reynolds' equivalent course, MTH 166 (Precalculus with Trigonometry).

Course Prerequisites and Co-requisites:

Prerequisite: Completion of MTH 161

Student Learning Outcomes:
Upon completing the course, the student will be able to

> Given an equation of a conic section, determine the features and sketch its graph; and
> Given sufficient information, write the equation of a conic section.

Major Topics to Be Included:

> Conics sections
> Herren's formula

Effective Date/Updated: June 10, 2016