

**J. Sargeant Reynolds Community College
Course Content Summary**

Course Prefix and Number: CIV 245

Credits: 3

Course Title: Storm Water Management

Course Description

Focuses on hydrographics analysis and flood routing conforming to soil conservation techniques, applied methods of retention–detention design employed by various governmental agencies in Virginia. Lecture 3 hours per week

General Course Purpose

Course serves as overview of techniques used by governmental agencies in the administration of storm water management.

Course Prerequisites/Corequisites (Entry-level competencies **required** for enrollment)

CIV 242 or equivalent

Course Objectives

Upon completing the course, the student will be able to:

- a. Demonstrate the relevancy of rainfall-runoff relationship
- b. Prescribe applicable hydrology methods to analyze development
- c. Determine appropriate storm water management methods per site and per regulations
- d. Provide design of effective storm water management facilities

Major Topics to be Included

- a. Hydrology and Hydrographs
- b. Site Constraints vs. Regulations
- c. Basin Routing
- d. Design of Storm Water Management Facilities

Effective Date of Course Content Summary: August, 2008