

Course Outline
FPTC 201
Fire Protection System Hydraulics
3 credit hours

The Community Colleges of Baltimore County
Catonsville

Description

Fire Protection System Hydraulics

Emphasizes the design requirements for hydraulically calculated sprinkler systems in industrial, commercial, and residential settings; water supply and demand requirements are discussed and analyzed according to hydraulic principles.

Prerequisite: FPTC 146 and MATH 135

Overall Course Objectives (learning objectives)

Upon completion of the course, the student will be able to:

1. Explain the basic components of water suppression systems.
2. Discuss basic principles of water supply and flow.
3. Calculate basic hydraulic scenarios.
4. Explain domestic and proprietary water supply systems.

Major Topics

1. Hydraulic systems and flow calculations.
2. Residential sprinkler systems.
3. Commercial/industrial sprinkler systems.
4. Municipal water supply strategies.

Course Requirements

Students shall demonstrate learning through:

1. Participation in class discussions.
2. Successful completion of quizzes.
3. Calculation of water supply systems.