# DELAWARE COUNTY COMMUNITY COLLEGE

STEM

science technology engineering math

Media, PA

### **PROJECT TEAM:**

Owner: Delaware County Community College General Contractor: E.R. Steubner, Inc.

Construction Manager: Reynolds Construction

Management, Inc. Architectects: Burt Hill

MEP and Fire Protection Engineers: Burt Hill Structural Engineers: O'Donnell Naccarato

MacIntosh

## **PROJECT INFORMATION:**

Size: 105,000 SF, 4 stories

Cost: \$28.7 Million (\$274 per square foot) Project Delivery Method: Design-Bid-Build Construction Dates: Jan. 2008 - Sep. 2009

#### **ARCHITECTURE:**

The STEM Center is the new forefront building for the college, standing out by its size and features. Glass curtain wall wraps the south side main entrance, and a glass "prism" highlights the south-east end of the S-shaped building.

### **ELECTRICAL INFORMATION:**

- Designed to follow existing campus electrical installation
- Transformers provide 208Y/120V power
- 250kW generator for Normal/Emergency power

 (2) 1000kVA transformers in a double-ended, main-tie-main substation

# STRUCTURAL INFORMATION:

Floor System: Steel composite construction with 3" metal decking and 2-1/2" lightweight concrete Typical Floor Sizes:

Beams: W16x26 Girders: W21x50

Interior Columns: W12x109 Exterior Columns: W12x87 Typical Structural Bay: 30' x 30'

Roof System: Open web steel bar joists spaced 6' on center and 1-1/2" 22 gage metal decking

#### **MECHANICAL INFORMATION:**

- Labs/prep rooms with fume hoods exhaust to roof fans with refrigerant coils for heat recovery
- Existing: (3) 400 ton gas-fired absorption chillers
- New: 650 ton electrical centrifugal chiller
   (4) 600 ton crossflow cooling towers
  - (2) Bryan 250 BHP dual fuel boilers
- 80,000 CFM roof mounted AHUs
  Finned tube radiation used on

