

# Facilities Management

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## **FM101 New York State Public School Budgeting & Accounting** **Cr-3**

This web-based course provides a basic understanding of NYS public school budgeting and accounting fundamentals, including financial statements and cost and managerial relationships. An introduction to the regulatory authorities of public school accounting is included.

## **FM105 Education Law for Facilities Management** **Cr-3**

This web-based course emphasizes the understanding, analysis, and application of law to school districts and the management of their facilities. A broad conceptual basis is supplemented by an examination of case law, current articles, Federal and State statutes, and regulations and school district policy.

## **FM161 Facility Blueprints** **Cr-3**

This web-based course introduces construction and facility plans and blueprints necessary for a construction or maintenance project, including how to interpret information from plans and blueprints.

## **FM180 Public Health & Safety in Schools** **Cr-3**

This web-based course provides the rationale for an occupationally safe and healthy work environment in an educational facility. Skills include working effectively with school emergencies, safe internal and external facility environments, and safety inspections.

## **FM244 Introduction to Green Building Technology** **Cr-3**

This web-based course focuses on the principles of commercial construction using a sustainable methodology. Green building principles such as energy efficiency, environmental impacts, resource conservation, indoor air quality, renewable energy sources, and community issues are studied. National and International programs for design as well as building rating systems are investigated. Codes and building standards are reviewed with emphasis on the LEEDS standards. Current building ratings and standards are reviewed.

## **FM246 Introduction to Alternative Energy Systems** **Cr-3**

This course provides both professional engineers as well as engineering students interested in energy systems with essential knowledge of major energy technologies, including function, quantitative evaluation cost, and impact on the natural environment. Topics covered include fossil fuel combustion, carbon sequestration, nuclear energy, wind energy, and biofuels.

## **FM247 Introduction to Geothermal Heating & Cooling** **Cr-3**

This course addresses the theory of operation of residential and commercial geothermal systems. Topics include the science and principles of heat transfer, convection and infrared, and identification of the best system for application and budget. Market values, tax incentives, and rebates for these systems are discussed as well as system configurations, system sizing, and design.

## **FM248 Introduction to Solar Voltaic Systems** **Cr-3**

This course addresses the installation of residential and commercial photovoltaic (PV) systems. It covers the principles of PV electricity and its effective incorporation into stand alone or utility-connected electrical systems. Topics include solar radiation; array orientation; components and system configurations; system sizing and design; and mechanical and electrical installation.