

# MANASSAS CAMPUS ACADEMIC BUILDING III AT NORTHERN VIRGINIA COMMUNITY COLLEGE

Going for Silver  
with the USGBC's  
LEED for New  
Construction  
Version 2.2 Rating  
System

*Size: 60,000 S.F.  
Cost: \$23,300,000  
Completed: 2010*



The new Phase III Academic Building will provide classroom, computer lab, science lab, and faculty office space that has been designed and constructed according to environmentally-sound standards and principles. To guide decisions affecting site development, energy and water efficiency, indoor air quality, material selection and recycling, the project team is employing the U.S. Green Building Council's LEED® rating system with the goal of achieving a LEED Silver rating. The project will feature the following sustainable design and construction elements:

- low-flow plumbing fixtures to reduce water use by over 30 percent;
- highly-reflective roofing to reduce the Heat Island Effect and the building's cooling load;
- variable-air-volume (VAV) HVAC system and CO<sub>2</sub> sensors to reduce energy use through demand-controlled ventilation;
- daylighting to reduce reliance on electric lighting;
- indoor air quality management during construction to prevent contamination of materials and the building mechanical system;
- low-emitting adhesives, sealants, paints, coatings, carpet, and composite wood materials for better indoor air quality;
- recycled-content materials manufactured within 500 miles of the project site;
- Forest Stewardship Council certified wood materials;
- waste management during construction;
- exterior light fixtures that help prevent light pollution; and
- rain gardens and storm filters to cleanse runoff from impervious surfaces on site.