

DEMONSTRATION OF BREADTH

Architectural Breadth

An architectural breathe will be performed in Analysis III (Historic Preservations). The original cafeteria design focuses attention on the preserved historic materials such as the murals and ceramic tiles. Analysis III looks into each historic preservation and uses value engineering to determine what should stay and what should go. By deleting some of these historic materials, the dining room's architectural appeal is affected. This breadth will redesign the dining room's architecture to account for these changes.

Electrical/Renewable Energy Breadth

An electrical/renewable energy breadth will be performed in Analysis IV (Advanced Lighting Controls). Analysis IV takes into account the cafeteria's new skylight and dining room lighting systems. These systems currently do not work together and thus use excess energy to provide more lighting than needed during daytime hours. By using Advanced Lighting Controls the artificial lighting system can be used to only supplement the skylight system when necessary. In addition to advanced lighting controls, photovoltaics may be incorporated into the new skylights so that dining room lighting system could become self-sufficient and use net zero energy.