

## **Senior Project**

The Facility Forecasting and Planning Study (FF&P) provides information consisting of building-specific recommendations on how to take over and maintain a new building most effectively, along with estimates of building operations, maintenance, and repair costs, over the building life cycle.

The goal of this project is to invent a way to streamline the process of producing the information required for an FF&P. The information produced to combine an FF&P consists of the following:

- Preventive Maintenance cost forecast for up to a 50 year term
- Minor Repair cost forecast for up to a 50 year term
- Unscheduled Maintenance cost forecast for up to a 50 year term
- Renewal and Replacement cost forecast for up to a 50 year term
- Electricity and Gas usage and cost forecast for up to a 50 year term
- Water/Sewer cost forecast for up to a 50 year term
- Staff Projection
- Custodial cost forecast for up to a 50 year term

The end result of this project will be a complete streamlined process that produces a report with all of this information about a new building. This process will not only be expeditious, but will also produce extremely accurate forecasts.