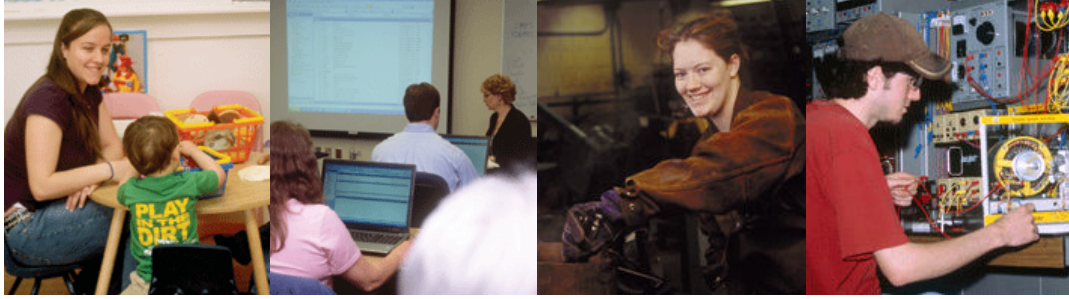


NORTHERN MAINE COMMUNITY COLLEGE – PRELIMINARY SCOPE LIST



1. Lighting retrofit (*Christie, Mailman, Residential, Shops*)
2. Building envelope(*Christie, Mailman, Residential, Shops*)
3. Direct Digital Control (DDC) system installation: (*Christie, Mailman, Residential, Shops*)
 - a. Time of Day (TOD) control
 - b. Expand DDC system to provide control of ventilation and temperatures
 - c. Better access to control parameters
4. Insulate DHW heat exchanger(*Christie*)
5. Boiler Isolation Valves(*Christie*)
6. Install oil pre-heaters on boilers (*Christie, Mailman, Residential, Shops*)
7. Install a wood fired boiler plant(*Christie, Mailman*)
8. Install Wind Turbine
- A. Modify Ventilation (*Christie, Mailman, Residential, Shops*)
 - a. Increase outside air volume intake
 - b. Repair heat recovery unit (*Martin*)
 - c. Provide CO2 controls (*Christie*)
- B. Provide additional ventilation
 - a. Central Christie offices
 - b. Residential Construction
 - c. Dormitories
 - d. Autobody
 - e. Maintenance shop
- C. Replace aging or past useful life equipment
 - a. Christie Terminal Air Balance units
 - b. Andrews Heating and Ventilating unit
 - c. Andrews Pumps
 - d. Snow Domestic Hot Water System
 - e. Mailman Classroom Unit Ventilators (6)
 - f. Mailman Boiler
 - g. Mailman Exhaust Fans
 - h. Welding Shop make-up air and exhaust system
 - i. Plumbing and Heating shop Heating and Ventilating unit
 - j. Christie Hot Water Pumps
 - k. Mailman relief vents
- D. Repair/modify/upgrade combustion air dampers and controls(*Christie, Mailman, Residential, Shops*)
- E. Submetering (*Christie, Mailman, Residential, Shops*)
- F. Improve heating water distribution (*Christie*)