



FACILITIES:

The Barn

The Barn, one of the oldest original buildings on campus, underwent a complete renovation beginning in March of 2012.

The doors to the new facility officially opened to students and faculty as everyone gathered early in the evening on September 15th for a ribbon cutting ceremony followed by a number of “firsts” — the awarding of the first pizza, the first bagel, egg, and cheese, and the first viewing in the tv room. The first dance of the school year — appropriately, a hoe-down — kicked off shortly thereafter, as students moved in between the dance floor and the mechanical bull on the new patio.

Always the center of student activity, over the years the Barn has housed the milk bar, the gymnasium, the theater, classrooms, the school store, college counseling offices, and general student center spaces. The new Barn remains home to the student center, the snack bar, and the school store. It also houses spacious new digs for the College Counseling Office. A TV room, recreation/game room, and meeting rooms upstairs and a new café downstairs are beautiful



and comfortable spaces for students to meet, gather with friends, or study. A new outdoor elevated patio also provides a sunny place for students to get together during the fall and spring.

The Barn has definitely become the new favorite spot to hang out on campus, and while students are very appreciative of the aesthetics of the new building, the real beauty lies in its green design, which includes the following features:

- Water-conserving fixtures are used throughout the building to reduce water consumption by 21% from an average baseline.
- A more than 30% reduction in energy use has been achieved compared to similar conventionally designed buildings.
- A geothermal (ground-source heat pump) system was installed to the west of the building to achieve this exceptional level of energy efficiency.
- 100% of the energy used by the student center will come from renewable energy sources.

Additionally, very purposeful choices were made in regards to materials and resources:

- 75% of the original barn structural elements were reused (including existing structural members in the walls, floors and roof). All exterior windows were reinstalled as interior windows, and structural wood was reclaimed for use as counter tops, furniture, or used throughout as wood trim.
- 24% of the total value of all new materials were extracted and manufactured within 500 miles of the barn.



- 77% of the construction waste generated on-site was diverted from landfills and sent to recycling centers.
- All wood flooring installed throughout is reclaimed from old barn siding or from the original barn.
- The original copulas were rebuilt as a part of the alternative ventilation system. During the fall and spring seasons, the heating and air conditioning can be turned off and the copulas and windows can be opened up to allow the building to be ventilated naturally.
- The main café area features the red Navy 111 Chair; each is made from 111 recycled plastic Coke bottles.

The Barn was awarded gold-level LEED certification in February of this year, making this Millbrook's 2nd gold-level LEED certified building on campus (the Math & Science Center being the first). LEED (Leadership in Energy and Environmental Design) is a certification and rating system that provides third-party



verification for buildings that achieve a certain level of high performance and green features through design, construction, and operation. To earn LEED certification, a project must achieve a certain number of points; points earned determine if the project is certified, and if it receives a Silver, Gold, or Platinum rating. Millbrook remains committed to continuing to strive for at least gold certification in all new building projects on campus.