



Opened in January 2007, the \$13.5 million Weinstein Center for Recreation and Wellness (WCRW) showcases the University of Richmond's commitment to the physical well-being of its students in addition to their intellectual development.



Highlights of the facility include:

- A three court gymnasium
- An elevated jogging track (1/10 mile)
- The Wellness Center with fitness assessment and massage therapy rooms
- A two-level fitness center
- Locker rooms and saunas
- Natatorium

Intramural, recreation, wellness, and health programs are all based in the Weinstein Center.

Not only has the campus responded positively, but the building earned National recognition. Each year the National Intramural Recreational Sports Association (NIRSA) honors colleges with sports facilities that are examples of exceptional architecture, design, and overall impact to the campus. In 2008 the University of Richmond was honored as one of five colleges to receive NIRSA's Outstanding Sports Facility award.

Not only has the campus responded positively, but the building earned National

PROJECT HIGHLIGHTS

LEED® Facts

Weinstein Center for
Recreation and Wellness
University of Richmond
2007



Location.....	28 Westhampton Way Richmond, VA 23173
Rating System.....	LEED-NC v2.2
Certification Achieved.....	Gold
Total Points Achieved.....	41/69
Sustainable Sites.....	11/14
Water Efficiency.....	4/5
Energy and Atmosphere.....	7/17
Materials and Resources.....	8/13
Indoor Environmental Quality.....	7/15
Innovation and Design.....	4/5

41% Reduced potable water use from baseline design

60% New wood materials harvested from FSC certified forests

90% Construction debris diverted from landfill

100% Recycled steel used in construction



PROJECT TEAM

Owner	University of Richmond	Civil Engineer	Draper Aden & Associates
Architect	Worley Associates Architects	Landscape Architect	Higgins and Gersteinmaier
Contractor	Taylor & Parrish Construction Inc.	LEED Consultant	University of Richmond
MEP Engineer	Engineers Plus	Interior Designer	Worley Associates

Structural Engineer Dunbar Milby Williams Pittman & Vaughan



ADDITIONAL RESOURCES

Weinstein Center for Recreation and Wellness
<http://recreation.richmond.edu/>

Follow the Weinstein Center
<https://www.facebook.com/RecWellUR>
https://twitter.com/UR_RecWell

Office for Sustainability
<http://sustainability.richmond.edu/>

Office for Sustainability Resources
<http://sustainability.richmond.edu/buildings/index.html>

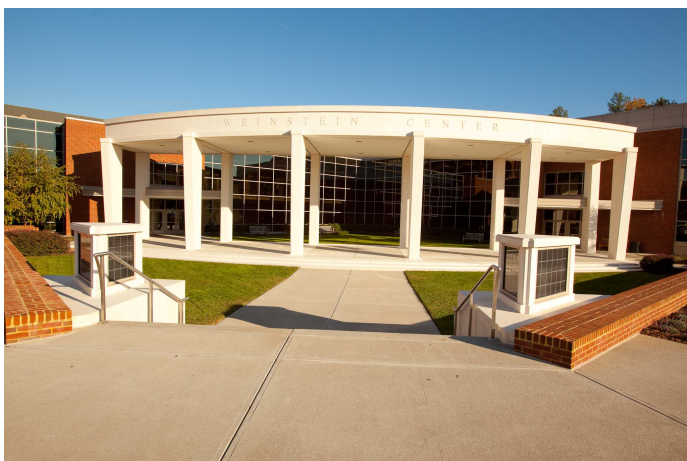
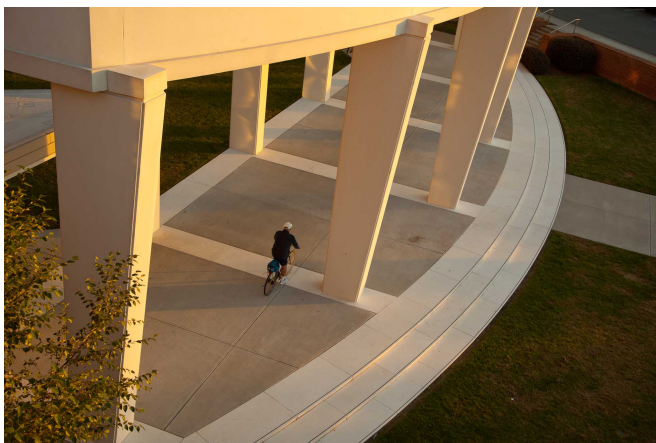
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<https://twitter.com/BeAGreenSpider>



SUSTAINABLE SITES

The Weinstein Center for Recreation at Wellness is located in close proximity to other important facilities such as a library, restaurant, post office, and a community center. Members of the University community can thus utilize the gym and easily access these other services without relying on transportation options that use fossil fuels.

The Recreation Center hosts 45 bicycle spaces for individuals from the University community and visitors to use. There are 18 individual showers and four locker rooms located within the Center; these facilities are available to campus employees and students and make commuting by bike an option for many. The Recreation Center is 0.25 miles from a bus stop for city buses and campus shuttles.



More than half of the area used in the LEED boundaries is dedicated to open space; many native and adaptive plants are utilized in this space. The storm water that flows from the LEED designated area runs off into Westhampton lake, which acts as a best management practice that removes suspended solids from runoff, controlling the quality of water that flows into the James River and Chesapeake Bay watersheds. To reduce the heat island effect, the pergola, the sidewalks, and the roof of the Recreation Center are white, which has a high solar-reflectivity index, to reflect the heat energy from the sun.

WATER EFFICIENCY

To maximize water efficiency, the open space in front of the Recreation does not require a permanent irrigation system because it features non-invasive, adaptive or native species to Virginia. Inside the building, the Recreation Center has reduced potable water use by 41.3% from a calculated baseline design through the installation of efficient urinals, ultra low-flow faucets, and low-flow shower heads.



ENERGY AND ATMOSPHERE



Through the use of fundamental commissioning of the building energy system, and implementation of energy saving options, the project achieved an energy cost savings of 28.2% compared to baseline calculations. This reduction in energy use was achieved by having low voltage or compact fluorescent lighting, in addition to a high-efficiency HVAC system with carbon-dioxide monitoring that allows the reduction of outside air intake during unoccupied times. To limit the use of chlorofluorocarbons (CFC's), no additional refrigerants were used in the cooling equipment used in the Recreation Center.

Materials and Resources

The Recreation Center's most defining features are the materials used to create it. In this category, the Recreation Center is in the top 10% of all LEED certified buildings in the country.

An impressive 95% of the existing walls, floors and roofs were maintained. Key features such as the locker rooms and upstairs classrooms were untouched during construction. Out of all the materials used in the construction process, almost 15% of the building materials content has been manufactured using recycled materials. The steel used to construct the frame of the building was manufactured using 100% recycled material. Almost 60% of the new wood based building materials were harvested from FSC certified forests. During the construction process 779.51 tons, almost 90%, of onsite generated construction waste was diverted from landfill.

To promote the regional economy and limit our carbon footprint, over 40% of the building materials is comprised of products that have been extracted, harvested, or recovered within 500 miles of the building site.



INDOOR ENVIRONMENTAL QUALITY



To ensure healthy air quality, carbon dioxide concentrations are monitored within all densely occupied spaces and direct airflow measurement devices have been provided for each mechanical ventilation system serving non-densely occupied spaces.

To limit a variety of harmful chemicals that could negatively impact the indoor air quality and the health of the occupants low VOC-emitting paints, carpets, paints, coatings, sealants were used in all areas of the project.

In the Recreation Center, occupant satisfaction and comfort is maximized by having a sufficient quantity of lighting controls for individual workstations, and appropriate lighting controls are available for shared multi-occupant spaces. Additionally, occupant satisfaction was confirmed in the building through a thermal comfort survey was distributed to building occupants.

INNOVATION AND DESIGN

In accordance with University guidelines, the Recreation Center utilizes an integrated pest management system to keep a low level of pest populations while limiting the amount of hazardous pesticides used. The University also implements a University-wide green house-keeping practice that limits the use and impact of harmful products on occupants and the watershed.

The Recreation Center has also achieved an exemplary performance in water efficiency by taking proactive measures to limit the water use in the building through low-flow faucets and shower heads.



LEED SCORE CARD



LEED for New Construction

NEINSTEIN CENTER FOR RECREATIO (10003358)

UNIVERSITY OF RICHMOND, VA, US

Certification Level: **Gold**

Certification Date: **2010.06.17**

41	Points Achieved	Possible Points: 69
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Certified 26 to 32 points Silver 33 to 38 points Gold 39 to 51 points Platinum 52 or more points

11	Sustainable Sites	Possible Points: 14
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Y	Prereq 1	Construction Activity Pollution Prevention	
1	Credit 1	Site Selection	1
1	Credit 2	Development Density & Community Connectivity	1
	Credit 3	Brownfield Redevelopment	1
1	Credit 4.1	Alternative Transportation, Public Transportation Access	1
1	Credit 4.2	Alternative Transportation, Bicycle Storage & Changing Rooms	1
1	Credit 4.3	Alternative Transportation, Low-Emitting & Fuel-Efficient Vehicles	1
1	Credit 4.4	Alternative Transportation, Parking Capacity	1
1	Credit 5.1	Site Development, Protect or Restore Habitat	1
1	Credit 5.2	Site Development, Maximize Open Space	1
	Credit 6.1	Stormwater Design, Quantity Control	1
1	Credit 6.2	Stormwater Design, Quality Control	1
1	Credit 7.1	Heat Island Effect, Non-Roof	1
1	Credit 7.2	Heat Island Effect, Roof	1
	Credit 8	Light Pollution Reduction	1

4	Water Efficiency	Possible Points: 5
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1	Credit 1.1	Water Efficient Landscaping, Reduce by 50%	1
1	Credit 1.2	Water Efficient Landscaping, No Potable Use or No Irrigation	1
	Credit 2	Innovative Wastewater Technologies	1
1	Credit 3.1	Water Use Reduction, 20% Reduction	1
1	Credit 3.2	Water Use Reduction, 30% Reduction	1

7	Energy & Atmosphere	Possible Points: 17
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Y	Prereq 1	Fundamental Commissioning of the Building Energy Systems	
Y	Prereq 2	Minimum Energy Performance	
Y	Prereq 3	Fundamental Refrigerant Management	1
1	Credit 1.1	Optimize Energy Performance, 10.5% New / 3.5% Existing	1
1	Credit 1.2	Optimize Energy Performance, 14% New / 7% Existing	1
1	Credit 1.3	Optimize Energy Performance, 17.5% New / 10.5% Existing	1
1	Credit 1.4	Optimize Energy Performance, 21% New / 14% Existing	1
1	Credit 1.5	Optimize Energy Performance, 24.5% New / 17.5% Existing	1
1	Credit 1.6	Optimize Energy Performance, 28% New / 21% Existing	1
	Credit 1.7	Optimize Energy Performance, 31.5% New / 24.5% Existing	1
	Credit 1.8	Optimize Energy Performance, 35% New / 28% Existing	1
	Credit 1.9	Optimize Energy Performance, 38.5% New / 31.5% Existing	1
	Credit 1.10	Optimize Energy Performance, 42% New / 35% Existing	1
	Credit 2.1	Renewable Energy, 2.5%	1
	Credit 2.2	Renewable Energy, 7.5%	1
	Credit 2.3	Renewable Energy, 12.5%	1
	Credit 3	Enhanced Commissioning	1
1	Credit 4	Enhanced Refrigerant Management	1
	Credit 5	Measurement & Verification	1
	Credit 6	Green Power	1

8	Materials & Resources	Possible Points: 13
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Y	Prereq 1	Storage & Collection of Recyclables	
1	Credit 1.1	Building Reuse, Maintain 75% of Existing Walls, Floors, & Roof	1
1	Credit 1.2	Building Reuse, Maintain 95% of Existing Walls, Floors, & Roof	1
	Credit 1.3	Building Reuse, Maintain 50% of Interior Non-Structural Elements	1
1	Credit 2.1	Construction Waste Management, Divert 50% from Disposal	1
1	Credit 2.2	Construction Waste Management, Divert 75% from Disposal	1
	Credit 3.1	Materials Reuse, 5%	1
	Credit 3.2	Materials Reuse, 10%	1
1	Credit 4.1a	Recycled Content, 10% (Post-consumer + 1/2 pre-consumer)	1
	Credit 4.1b	Recycled Content, 20% (Post-consumer + 1/2 pre-consumer)	1
1	Credit 5.1	Regional Materials, 10% Extracted, Processed, and Manufactured Regionally	1
1	Credit 5.2	Regional Materials, 20% Extracted, Processed, and Manufactured Regionally	1
	Credit 6	Rapidly Renewable Materials	1
1	Credit 7	Certified Wood	1

7	Indoor Environmental Quality	Possible Points: 15
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Y	Prereq 1	Minimum IAQ Performance	
Y	Prereq 2	Environmental Tobacco Smoke (ETS) Control	
	Credit 1	Outdoor Air Delivery Monitoring	1
	Credit 2	Increased Ventilation	1
1	Credit 3.1	Construction IAQ Management Plan, During Construction	1
	Credit 3.2	Construction IAQ Management Plan, Before Occupancy	1
	Credit 4.1	Low-Emitting Materials, Adhesives & Sealants	1
1	Credit 4.2	Low-Emitting Materials, Paints & Coatings	1
1	Credit 4.3	Low-Emitting Materials, Carpet Systems	1
	Credit 4.4	Low-Emitting Materials, Composite Wood & Agrifiber Products	1
1	Credit 5	Indoor Chemical & Pollutant Source Control	1
1	Credit 6.1	Controllability of Systems, Lighting	1
	Credit 6.2	Controllability of Systems, Thermal Comfort	1
1	Credit 7.1	Thermal Comfort, Design	1
1	Credit 7.2	Thermal Comfort, Verification	1
	Credit 8.1	Daylight & Views, Daylight 75% of Spaces	1
	Credit 8.2	Daylight & Views, Views for 90% of Spaces	1

4	Innovation & Design Process	Possible Points: 5
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1	Credit 1.1	Innovation in Design	1
1	Credit 1.2	Innovation in Design	1
1	Credit 1.3	Innovation in Design	1
	Credit 1.4	Innovation in Design	1
1	Credit 2	LEED® Accredited Professional	1

