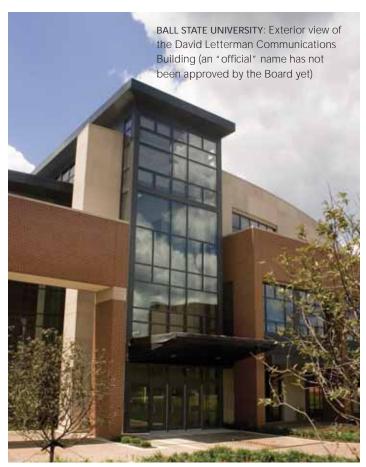


The KIWI 2007

# GREEN COLLEGE REPORT

Fifty schools that will help your kids help the planet.









5 BALL STATE UNIVERSITY: Students wait to board the Hybrid Campus shuttle bus on the campus of Ball State University 3 Exterior view of the Park Residence Hall on the campus of Ball State University

#### by Elizabeth Barker

nvironmental awareness is the fastest-growing trend in higher education today. Academia's interest in reducing the campus carbon footprint and giving undergraduates the tools they need to thrive in a greener-focused world can be traced back to the needs and demands of today's students, the millennials or "MySpace generation." Much like the generation that came of age during the 1960s, they care deeply about the environment. But unlike their hippie predecessors, this generation knows that for it to be effective, the green shift must match idealism with pragmatism. So as they head off to college, today's teens are set to take practial steps toward protecting the planet. And schools are lining up to harness that energy with learning programs that give students the tools they'll need to make real change happen. They're also remaking campus physical plants into proving grounds for sustainability and the latest green technology.

For your consideration, the following are 50 institutions of higher-learning that we believe are making a significant commitment to the environment. Since all of these colleges and universities are involved in a number of sustainability-focused endeavors, we've highlighted just a few programs and projects from each.

As your child's college search continues, you should check out the American College and University Presidents Climate Commitment, a pledge to reduce and ultimately neutralize all campus greenhousegas emissions (www.presidentsclimatecommitment.org). More than 300 presidents and chancellors across the U.S. have already signed the commitment, and its supporters hope to have over 1,000 signatories by December 2009. In the back of this report, you will find the commitment letter along with a list (as of August 2007) of the institutes that have signed it. You can also find an extended listing of schools striving for sustainability on the Association for the Advancement of Sustainability in Higher Education's website (www.aashe.org).



4 BEREA COLLEGE: Community work party to install quild plantings in the Ecovillage Food Forest



#### Aquinas College (Grand Rapids, Michigan; www.aquinas.edu)

Campus setting: Suburban Tuition: \$20,048

Undergraduate students: 1,780 Room and board: \$6,422

Graduate students: 318

In August 2003, Aquinas developed one of the country's first fouryear undergraduate Sustainable Business programs. Now seeking LEED certification for its newly constructed library, the college is also taking part in a pilot project that—if successful—will lead to the development of a full-scale urban organic waste composting facility in Grand Rapids. Additionally, the school's head chef is a member of a West Michigan collaborative that is working to increase the amount of locally grown, organic food served at the school.

#### Arizona State University (Tempe, Arizona; www.asu.edu)

Tuition: \$16,516 (out-of-state); Campus setting: Suburban Undergraduate students: 41,815 \$5,930 (in-state) Graduate students: 8,813 Room and board: \$8,900

Starting next fall, Arizona State students will be able to get their bachelor's degrees through the university's new School of Sustainability. With a focus on problem-oriented learning, the degree will train students to address issues such as climate change, population growth and water scarcity. The university recently completed a two-year-long energy-saving upgrade project, which

included the installation of a solar array on a campus parkingstructure cover.

#### Ball State University (Muncie, Indiana; www.bsu.edu)

Campus setting: Suburban Tuition: \$18,216 (out-of-state); Undergraduate students: 17.082 \$7,148 (in-state) Graduate students: 2,948 Room and board: \$7,240

Offering five minors in sustainability-related disciplines, Ball State has recently made its campus greener by using biodiesel to fuel the university service fleet, undertaking a campus reforestation program and constructing several LEED-certified buildings. In September, the new LEED-certified communications and media center will be named after alumnus David Letterman. Currently partnering with its campus Barnes and Noble to make more recycled-content products available, the university also hosts an annual workshop for faculty that instructs them on how to implement sustainable principles in their teaching and work practices.

#### Bates College (Lewiston, Maine; www.bates.edu)

Campus setting: Urban Tuition: \$46,800 (including Undergraduate students: 1,744 room and board) For all students and instructors, the school has prepared a booklet

titled "Go Green: A Bates Guide to Campus Ecology" (available in



### Green Glossary

**Biomass:** biological material that can be converted into energy and used as fuel. Sources include food waste, leftover crops, yard clippings and livestock manure.

**Green roof:** an extension of an existing roof, covered with vegetation. Designed to filter pollution, reduce building temperatures, and lessen pressure on sewer systems, green roofs feature a waterproof membrane, drainage layer, soil layer and lightweight plants.

**Grey water reuse:** a process of recycling shower, bath and laundry water for use in landscape irrigation.

**LEED certification:** a nationally accepted standard for measuring building sustainability, developed and administered by the U.S. Green Building Council. To earn certification, buildings must meet performance benchmarks (or "credits") within five categories of

human and environmental health: sustainable site development, water savings, energy efficiency, materials selection, and indoor environmental quality. Through a third-party commissioning process, buildings are deemed "Certified," "Silver," "Gold," or "Platinum," depending on the number of credits they achieve in each category.

**Local food:** food produced regionally and according to traditional growing cycles, requiring less packaging and transportation in order to reach the consumer.

**Photovoltaic panels:** devices that convert sunlight directly into electricity. Also called "solar panels," they're often made of highly purified silicon.

Solar array: a configuration of photovoltaic panels.

PDF format or printed on recycled-content paper). Complete with details on campus recycling options, transportation alternatives and energy-saving strategies, the guide includes a graduation pledge that reads: "I pledge to explore and take into account the social and environmental consequences of any job I consider or any organization for which I work." The college, which offers a major in environmental studies, has designed its new student housing facility and dining hall to meet LEED Silver standards.

#### Berea College (Berea, Kentucky; www.berea.edu)

Campus setting: Rural Tuition: \$22,300 Undergraduate students: 1,576 Room and board: \$5,230

Berea offers a sustainability and environmental studies minor, as well as urban gardening sessions and green-home workshops. A green residential complex called The Ecovillage is comprised of 50 apartments, each outfitted with solar tubes, compact-fluorescent lighting, a low-flow toilet and showerhead, low-VOC carpeting and paint, and an individual garden plot. Reserved for married students with children, the Ecovillage is also home to the Sustainability and Environmental Studies program's demonstration house. The home is equipped with a solar electric system, a composting toilet and

#### Bemidji State University (Bemidji, Minnesota; www.bemidjistate.edu)

Campus setting: Rural **Tuition:** \$6.740

Undergraduate students: 4,388 Room and board: \$5,874

Graduate students: 530

other eco-friendly features.

On this lakeside campus, students will find eco-friendly features such as the wind-energy-powered student union, compact-fluorescent lighting and water-saving showerheads. Recently, a butterfly garden

was created as part of the school's native-plant-based restoration project. Bemidji offers a minor in environmental studies, and its bachelor of science degree includes concentrations in ecosystem studies, environmental management, and environmental policy and planning.

#### Bowdoin College (Brunswick, Maine; www.bowdoin.edu)

Campus setting: Suburban Tuition: \$36,370

Undergraduate students: 1,734 Room and board: \$9,890 Pledging to follow LEED guidelines for all new campus construction and renovation projects, Bowdoin has included LEED-credit features in two new dorms, a dining hall, a music hall and its Outdoor Leader-

ship Center. In 2002, the campus organization Sustainable Bowdoin launched an effort to salvage and resell all items left behind by dorm residents at the end of the school year. Dubbed "Dump and Run," the project turns proceeds over to local nonprofit groups. Under the Environmental Studies' Psi Upsilon Environmental Fellowship program, students can gain hands-on experience in their field of study through placement in a Maine nonprofit or governmental agency.

#### California State University, Chico (www.csuchico.edu)

Campus setting: Rural Tuition: \$13,572 (out-of-state); Undergraduate students: 14,927 \$3,402 (in-state) Graduate students: 1,323 Room and board: \$8,560

Chico State first began using renewable energy in 1992, when the campus installed a thermal-energy storage system. Students can major in a number of fields related to environmental protection, including land stewardship (in the College of Agriculture), environmental economics (in the College of Business) and applied ecology (in the College of Natural Sciences). Home to the first U.S. student organization to sell organic cotton T-shirts, Chico State also uses nontoxic cleaning supplies across campus.







BEREA COLLEGE: (far left) Students at the Berea College Ecovillage promote sustainability by growing their own food (left, top) The ecological machine incorporates helpful bacteria, plants, snails and fish that thrive by breaking down and digesting organic pollutants.

#### Cape Cod Community College (Barnstable, Massachusetts;

www.capecod.edu)

Campus setting: Rural Tuition: \$9,840 (out-of-state); Undergraduate students: 4,242 \$3,660 (in-state)

Offering several associate degrees under its Environmental Technology program, CCCC promotes applied learning through such features as its aquaculture tank, solar panels and wind turbines. Completed last year, the college's Lyndon P. Lorusso Applied Technology Building is positioned to become the first LEED-certified state (they are seeking Gold certification) facility in Massachusetts.

#### Colby College (Waterville, Maine; www.colby.edu)

Campus setting: Urban Tuition: \$46,100 (including Undergraduate students: 1,865 room and board)

One of the oldest in the country, Colby's Environmental Studies program offers majors in environmental policy, environmental studies and environmental science. All of the school's electricity comes from green sources (hydro-electric and bio-mass), and the campus saw the completion of its first LEED-certified building (the Schair-Swenson-Watson Alumni Center, certified Silver) in 2005. In the dining halls, the college's "Maine First" policy demands that out-of-state-goods be used only when local ones are not available. In addition to serving some organic food and purchasing only sustainably sourced seafood, each cafeteria collects fryer oil for biodiesel use on a local farm and turns food waste into compost for local

#### Duke has pledged that all new construction and renovation on campus will be LEED-certified.

garden centers, nurseries and landscapers. A campus-wide integrated pest-management plan minimizes the use of chemicals and road and parking-lot drainage is diverted, collected and treated in order to keep contaminants from entering the local pond and watershed.

#### Cornell University (Ithaca, New York; www.cornell.edu)

Campus setting: Rural Tuition: \$34,781

Undergraduate students: 13,562 Room and board: \$11,190

Graduate students: 5,181

One of the university's many environmental groups, student organization Kyoto NOW! was instrumental in the university's recent decision to move toward carbon neutrality. Another student group, Farm To Cornell, formed in 2005 in order to "strengthen sustainable food systems from farm to fork." One of that organization's big accomplishments has been to increase the use of locally grown foods in campus dining halls. Cornell offers several environmentrelated majors, including ecology and evolutionary biology, natural resources, and biological and environmental engineering.







COLBY COLLEGE "TRASHION SHOW": Students present clothing made of recycled materials in a "Trashion Show" as part of Colby College's 2007 Earth Week activities Photo by Emily Stoller-Patterson '00

#### **Dickinson College** (Carlisle, Pennsylvania; www.dickinson.edu)

Campus setting: Suburban Tuition: \$35,809

Undergraduate students: 2,400 Room and board: \$8,980

In fall 2006, a group of Dickinson students moved into a living classroom: the Center for Sustainable Living, a LEED-certified townhouse outfitted with solar panels, water-recycling and composting systems and with other green features. Students can curb car use by taking part in a bicycle-borrowing program. Elsewhere on campus, they can dine on food harvested from an organic garden and visit the student union's organic café for fair-trade coffee. Environmental science and environmental studies are both offered as either a major or a minor.

#### Duke University (Durham, North Carolina; www.duke.edu)

Campus setting: Suburban Tuition: \$35,512

Undergraduate students: 6,330 Room and board: \$9.940

Graduate students: 5,350

One of the largest university purchasers of green power in the U.S., Duke has pledged that all new construction and renovation on campus will be LEED-certified. (So far, 16 buildings have received certification.) In an effort to make campus event-planning and purchasing more eco-sensitive, the university also developed a "Duke Green Event Guide" and "Green Shopping List." Its Nicholas School for the Environment offers five majors and two minors, and student activities include events like the Eco-Olympics (a dorm-versusdorm energy, waste and water reduction competition).

#### Eastern Connecticut State University

(Willimantic, Connecticut; www.easternct.edu)

Campus setting: Suburban Tuition: \$14,446 (out-of-state); Undergraduate students: 4,898 \$6.961 (in-state) Graduate students: 341 Room and board: \$8,415

Eastern's campus housing includes a recently renovated high-rise apartment complex (the largest geothermal-heated and -cooled building in Connecticut) and three energy-efficient dorms designed to LEED certification standards. Since 2005, the university has offered a minor in sustainable energy studies, a program that prepares students to work as energy policy specialists in government, industry and education.

#### The Evergreen State College (Olympia, Washington; www.evergreen.edu)

Campus setting: Rural Tuition: \$15,489 (out-of-state); Undergraduate students: 4,124 \$5,145 (in-state) Graduate students: 292 Room and board: \$6,541

Evergreen considers its 36-year-old organic farm to be the college's "oldest working model of sustainability." Used as an educational tool for the school's programs in ecological agriculture and sustainable agriculture, the farm features community gardens (for students, alumni and community members who wish to grow their own organic produce) and a biodiesel processing unit (which generates enough fuel to replace 17% of the school's diesel consumption annually). Evergreen's undergraduates can study in ten sustainability-









3 OBERLIN COLLEGE: (clockwise from left) Meredith Dowling, at Oberlin's annual Big Parade, the first employee of the Office of Environmental Sustainability; The Adam Joseph Lewis Center for Environmental Studies (AJLC) was one of the first and most innovative green buildings on a college campus; The Living Machine, an ecologically engineered system that combines elements of conventional wastewater technology with the purification processes of wetland ecosystems to treat and recycle the building's wastewater





**6LANE COMMUNITY COLLEGE** 







focused fields, including environmental design, environmental education and environmental history. The college aims to be carbon-neutral and zero waste by 2020, as well as to increase its level of locally produced food purchases to 40% by 2010.

#### Foothill-De Anza Community College District

(including Cupertino, Los Altos, Los Altos Hills, Mountain View, Palo Alto, Stanford, Sunnyvale and portions of San Jose,

California; www.fhda.edu)

In 2005, Cupertino's De Anza College opened the LEED-certified Kirsch Center for Environmental Studies, where classes include instruction on solar design, energy efficiency and renewable energy technologies. Also in 2005, the district completed installation of solar electric and energy-efficient projects that—when combined with prior improvements to lighting, air conditioning and energy management systems—reduce electricity purchases by 46%.

#### Furman University (Greenville, South Carolina; www.furman.edu)

Tuition: \$31,560 Campus setting: Suburban

Undergraduate students: 2,759 Room and board: \$8,064

Graduate students: 251

All Furman undergrads are required to take a course titled "Humans and the Natural Environment," designed to help students comprehend that "how the world operates as an environmental system that supports life is fundamental, required knowledge for an educated person in our modern society." For further earthfocused education, students can major in environmental studies, a concentration that includes courses in the natural sciences, social sciences and humanities. Equally attuned to eco issues, the athletic department has partnered with local natural foods stores to provide healthy, local food at soccer and football games.

#### Green Mountain College (Poultney, Vermont; www.greenmtn.edu)

Campus setting: Rural Tuition: \$24,565

Undergraduate students: 729 Room and board: \$8,982

Graduate students: 30

Students can experience hands-on learning on the college's organic farm. Featuring a two-acre garden and a solar- and wind-powered greenhouse, the farm operates with the help of an extensive composting system developed in conjunction with dining services. Through the environmental management program, meanwhile, students can receive their certificates in sustainable community development (as well as a number of degrees, including a B.S. in business). Elsewhere on campus, recent and current environment-focused projects include an aggressive paper-reduction program and the installation of solar panels on the student center.

Furman undergrads are required to take a course titled "Humans and the Natural Environment," designed to help students comprehend that "how the world operates as an environmental system that supports life is fundamental, required knowledge for an educated person in our modern society."

#### Hartford Community College (Bel Air, Maryland; www.harford.edu)

Undergraduate students: 7,706 Tuition: \$77 per credit hour

In addition to its two degrees in environmental science, Hartford offers a two-week study-abroad program that combines university -level lectures and tours of renewable energy sites in Denmark. Several campus buildings are currently seeking LEED certification and the college has implemented grey water collection systems, a Nike Reuse-A-Shoe project and a green housekeeping program.

#### Ithaca College (Ithaca, New York; www.ithaca.edu)

Campus setting: Suburban Tuition: \$28,670

Room and board: \$10,728 Undergraduate students: 6,028

Graduate students: 381

Planning to open a LEED-platinum-certified School of Business next January, Ithaca integrates sustainability across its curriculum. In collaboration with EcoVillage at Ithaca (a local planned community dedicated to pursuing ecological, economic, and social sustainability), the college's environmental studies program now offers five projectbased sustainability courses involving extensive field work. Rather than tossing out old furniture, Ithaca employs craftspeople to refinish, reupholster and refurbish it. And in the dining services department, "zero waste" catering options employ compostable packaging.

#### Lane Community College (Eugene, Oregon; www.lanecc.edu)

Campus setting: Suburban Tuition: \$11,625 (out-of-state); \$3,615 (in-state)

Undergraduate students: 5,270

Moving toward becoming carbon-neutral by 2050, Lane began purchasing 10% wind power in 2005 and installed a solar array in 2006. In the school's two-year degree program in energy management, students learn about the alternative energy solutions available for today's building systems. In the chemistry department, members of a student organization called the Green Chemistry Club recently teamed up with the sustainability program staff to create a biodiesel processor for the campus. And in partnership with the local utility, Lane has installed a demonstration rainwater harvesting system, which is now used to support a class that focuses on water conservation and recycling.

#### Lawrence Technological University

(Southfield, Michigan; www.ltu.edu)

Campus setting: Suburban Tuition: \$20,496

Undergraduate students: 2,680 Room and board: \$7,872

Graduate students: 1,369

In April 2006, Lawrence Tech opened a new student center built to LEED specifications. Meant to serve as "a living laboratory of green design and alternative energy technologies," the A. Alfred Taubman Student Services Center features a green roof, geothermal heating and cooling, and a stormwater management system. Through the university's Center for Sustainability, students can pursue a concentration in sustainable architecture or conduct research in the alternative energy lab. This October, Lawrence Tech will be one of 20 universities in the world to compete in Solar Decathlon 2007, a U.S. Department of Energy-sponsored event that requires each school team to design a home that generates enough solar energy to operate a household, a home-based business and related transportation needs.

#### McGill University (Montreal, Quebec, Canada; www.mcgill.ca)

Campus setting: Urban Tuition: \$5,769 (out-of-state);
Undergraduate students: 22,074 \$2,786 (in-state)

Graduate students: 7,375 Room and board: \$7,964

McGill students, who can obtain both majors and minors in environment, were the driving force behind the university's recently adopted paper-use policy (through which all course material and exam booklets must be printed on recycled paper). In addition to investing more than \$6 million in campus-wide energy-saving strategies, McGill sponsors competitions that award prizes to the residence halls with the greatest drop in energy consumption. To cut back on waste as well as energy, the purchasing department has launched an internal auction system (similar to eBay) that allows departments to redistribute supplies and products that they no longer need.

#### Michigan State University (Lansing, Michigan; www.msu.edu)

Campus setting: Suburban Tuition: \$23,500 (out-of-state);
Undergraduate students: 35,821 \$9,640 (in-state)

Graduate students: 8,099 Room and board: \$6,676

Graduate students: 8,099 Room and board: \$6,676 In a 2004/2005 survey, Michigan State was found to have the lowest electrical consumption per square foot among the Big Ten schools. The university recently committed to meeting LEED certification for all new buildings, converted its campus trucks to run on biodiesel fuel and required its cafes to serve only fair-trade coffee, tea, sugar and chocolate. With more than 25 sustainability-focused courses available, Michigan State last year launched a program that allows students to obtain degree certificates in organic farming.

## Michigan State was found to have the lowest electrical consumption per square foot among the Big Ten schools.

#### Middlebury College (Middlebury, Vermont;

www.middlebury.edu)

Campus setting: Rural Tuition: \$46,910 (including Undergraduate students: 2,406 room and board)

Graduate students: 563

In 1965 Middlebury established the nation's first undergraduate environmental studies major, a field of study that over the past five years has become one of the college's most popular majors. In February 2007, the student organization MiddShift presented a carbon neutrality initiative to the college's board of trustees; three months later, Middlebury's president announced that the school would become carbon-neutral by 2016. The college plans to achieve carbon neutrality through efforts such as the completion of a biomass plant (in 2008), an upgrade to energy-efficient lighting and the purchase of carbon offsets.

#### Mount Wachusett Community College

(Gardner, Massachusetts; www.mwcc.edu)

Campus setting: Suburban Tuition: \$10,380 (out-of-state);
Undergraduate students: 3,937 \$4,230 (in-state)

Over the past four years, MWCC has slashed its  $\mathrm{CO_2}$  emissions by about one-fourth, mainly by switching its campus heating system to biomass. In 2006, the school received a \$1 million grant from the U.S. Department of Energy to install a wind turbine on campus. The college currently offers three renewable energy courses, with a goal of establishing a full curriculum to prepare students for careers as renewable-energy service technicians.

#### Napa Valley College (Napa, California; www.napavalley.edu)

Campus setting: Suburban Tuition: \$5,516 (out-of-state);
Undergraduate students: 6,706 \$716 (in-state)

In February 2006, this community college completed the largest solar energy project in Napa County. Covering 6.5 acres and providing power to meet 40% of campus electricity needs, the photovoltaic system is set up such that members of Napa Valley College's Environmental Studies classes can study solar technology up close.

#### Northwestern University (Evanston, Illinois;

www.northwestern.edu)

Campus setting: Suburban Tuition: \$35,429

Undergraduate students: 8,153 Room and board: \$10,776

Graduate students: 7,824

Another of the biggest university purchasers of green power, Northwestern buys renewable energy certificates to offset 20% of





SEATTLE UNIVERSITY: (clockwise from top) A Move Out collection station in front of a residence hall for the end of spring quarter donation collection; electric vehicles in campus facilities fleet; pre-consumer food waste from the cafeteria being lifted into the mixer before it is put in the compost pile; pesticide-free signs





its electricity usage (a commitment that resulted from an administration-student collaboration). The school has also committed to LEED certification for all new buildings and renovations, and all appliance purchases are Energy Star-rated. Students, who take part in dorm-versus-dorm energy-savings competitions each year, can opt to get their degrees in environmental sciences or environmental engineering and science.

#### Oberlin College (Oberlin, Ohio; www.oberlin.edu)

Campus setting: Rural Tuition: \$36,500 Undergraduate students: 2,829 Room and board: \$9,280

One of the first four U.S. schools to sign the American College and University Presidents Climate Commitment, Oberlin recently became home to the largest solar array in the state (thanks to the installation of a new solar parking pavilion). This fall, students will move into a newly green campus house that the Student Experiment in Ecological Design (an environmentalist student organization) remodeled over the summer. The college offers an environmental studies program, with junior and seniors eligible for a new course titled Campus Sustainability. A practicum focused on campus environmental impacts, the course allows students to solve real problems related to energy, water, materials, food, transportation and waste.

#### Portland State University (Portland, Oregon; www.pdx.edu)

Campus setting: Urban Tuition: \$17,831 (out-of-state); Undergraduate students: 17,998 \$5,765 (in-state) Graduate students: 6,256 Room and board: \$7,050

The first university in the nation to be certified "salmon safe," Portland State upholds land management practices that protect agricultural and urban watersheds for the health of salmon. Its LEED-certified Broadway building boasts the largest green rooftop in the city, complete with a rainwater-harvesting system that reduces the structure's annual demand for municipally treated potable water by about 110,000 gallons per year. The university's food service is required to purchase a specific percentage of locally sourced and organic food, to compost food waste and to supply compostable serviceware. The Community Development and Environmental Science and Research departments both provide a sustainability-based curriculum, but students can also choose to minor in sustainability or sustainable urban development.

#### Seattle University (Seattle, Washington; www.seattleu.edu)

Campus setting: Urban Tuition: \$26.325 Undergraduate students: 4,160 Room and board: \$7,860

Graduate students: 1,881

Since 1986, SU's landscape has been maintained organically and is pesticide-free. In more recent years, the university has instituted the Student Move Out program (through which unwanted items are collected for donation and recycling), an on-site composting facility, and the campus-wide Anti-Sweatshop Policy (created to monitor all vendors and manufacturers that supply the school). In the native-plant-populated Taqwsheblu Vi Hilbert Ethnobotanical Garden, stormwater runoff is captured and filtered into the campus pond. And in the classroom, students can pursue majors in environmental studies, environmental science and environmental engineering specialization.

#### Stanford University (Stanford, California; www.stanford.edu)

Campus setting: Suburban Tuition: \$34,800

Undergraduate students: 6,422 Room and board: \$10,808

Graduate students: 10,285

Winner of the 2007 Acterra Business Environmental Award, Stanford's dining department serves 18,000 meals featuring seasonal, organic, locally produced foods daily. The university houses a Geological and Environmental Sciences department, and student organizations include the Stanford Climate Crew (a group working toward curbing campus carbon emissions), the Environmentally Sustainable Business Club and the Stanford Community Farm.

#### St. John's University (New York, New York; www.stjohns.edu)

Campus setting: Urban Tuition: \$26,840

Undergraduate students: 14,983 Room and board: \$12,070

Graduate students: 3,665

One of nine New York City colleges and universities to accept Mayor Michael R. Bloomberg's challenge to reduce their ecological footprint and increase their energy efficiency, St. John's has committed to reducing greenhouse gas emissions by 30% over the next 10 years. The university, which features an Environmental Studies department, plans to implement a full energy audit and embrace LEED standards for 200,000 square feet of new construction.

#### St. Lawrence University

(Canton, New York; www.stlawu.edu)

Campus setting: Rural Tuition: \$35,600

Undergraduate students: 2,182 Room and board: \$9,060

Graduate students: 121

Last year the St. Lawrence University Board of Trustees approved a student-developed resolution to "adopt a commitment to the environment as a core university value." Ongoing initiatives include the Farm-to-School Support Project (which provides dining halls with locally grown food) and the Green Bikes program (which lets students borrow bikes free of charge). An SLU student organiza-

Tufts developed the country's first university environmental policy and launched the Talloires Declaration, a ten-point-action plan for incorporating sustainability and environmental literacy into teaching, research, operations and outreach at colleges and universities. tion maintains an eco-friendly home (The Greenhouse) in order to educate the campus and community about low-impact living. And in the Environmental Studies department, students conduct field research in the Ecological Sustainability Landscape, a 110-acre tract of land that allows for hands-on application of integrated pest management and sustainable agriculture methods.

#### St. Olaf College (Northfield, Minnesota; www.stolaf.edu)

Campus setting: Rural Tuition: \$30,600

Undergraduate students: 3,041 Room and board: \$7,900

Graduate students: 793

In 2006 St. Olaf began producing clean energy with the help of a 1.65-megawatt wind turbine, estimated to generate a third of campus electricity and cut carbon emissions by 20%. Committed to serving fresh, local, seasonal foods and fair-trade coffee, the college's cafeteria was named one of the ten best dining halls in the country by the Princeton Review in 2005. Under the school's environmental studies major, students can take part in a senior seminar involving firsthand research in fields such as the ecology of food and sustainable use of local forests as well as farming and the environment.

#### Tufts University (Medford, Massachusetts; www.tufts.edu)

Campus setting: Suburban Tuition: \$36,700

Undergraduate students: 4,995 Room and board: \$10,160

Graduate students: 2,977

In 1990 Tufts developed the country's first university environmental policy and launched the Talloires Declaration, a ten-point-action plan for incorporating sustainability and environmental literacy into teaching, research, operations and outreach at colleges and universities. (The document has now been signed by more than 350 university presidents and chancellors in more than 40 countries.) Committed to reducing its greenhouse gas emissions by 10% by 2020, the university has constructed two LEED-certified buildings, improved energy efficiency in everything from campus lighting and computers to vending machines and lawn mowers, and installed solar panels and solar water heaters. Tufts offers undergraduate majors in environmental studies and civil and environmental engineering.

#### University of British Columbia

(Vancouver, British Columbia, Canada; www.ubc.ca)

Campus setting: Urban Tuition: \$4,135

Undergraduate students: 29,934 Room and board: \$5,720

Graduate students: 8,358

In the largest energy upgrade ever to take place on a Canadian campus, a UBC project completed in 2006 reduced campus energy use by 20% annually, cut annual  $CO_2$  emissions by 15,000 tons, and lowered annual water use in core facilities by 30%. Green campus buildings include a LEED-certified Life Sciences Center and Aquatic Ecosystems Research Laboratory. In 2005-2006 the university purchased enough green energy certificates to power two buildings.



UBC offers about 300 undergraduate and graduate courses dealing with sustainability issues, while more than 300 researchers and faculty members are focusing on sustainability-related research areas like green building and global citizenship.

Home to the nation's first organiccertified campus kitchen, UC Berkeley boasts a solar-powered student union and two green-business-certified dining halls.

#### University of California, Berkeley (www.berkeley.edu)

Campus setting: UrbanTuition: \$25,338 (out-of-state);Undergraduate students: 23,863\$6,654 (in-state)Graduate students: 9,007Room and board: \$13,074

Home to the nation's first organic-certified campus kitchen, UC Berkeley boasts a solar-powered student union and two green-business-certified dining halls. As of 2005, all new campus facilities are designed to LEED standards. To encourage sustainability in the residence halls, the university has set up a demonstration dorm room that teaches students how to carry out a comfortable yet low-impact and affordable life on campus. Sustainability-focused degree programs and courses are not only offered by the Colleges of Natural Resources and Environmental Design, but in the College of Engineering and Schools of Law and Journalism as well.

#### University of California, Merced (www.ucmerced.edu)

Campus setting: Suburban

Undergraduate students: 1,210

Graduate students: 76

UCM's Green Campus Program provides the school with student in

UCM's Green Campus Program provides the school with student interns who work to integrate energy education into the curricula, raise campus awareness about the relationship between the environment and energy, and design and implement campus energy programs. Offering undergraduate and graduate degrees in Environmental Engineering and Earth Systems Sciences, the university features a 750-acre nature reserve that will be maintained permanently in an undeveloped state. Another 5,030 acres of vernal pools are preserved in their natural state by the nonprofit Nature Conservancy.

#### University of California, Santa Barbara (www.ucsb.edu)

Campus setting: Suburban Tuition: \$25,694 (out-of-state); Undergraduate students: 18,212 \$7,010 (in-state) Graduate students: 2,870 Room and board: \$11,493 Having spared the planet 16 million pounds of  ${\rm CO_2}$  emissions so far, UCSB's energy-conserving projects include an inter-dorm

competition that resulted in a \$10,000 saving in energy spending. All buildings constructed after July 2004 are LEED-certified, and the food service has developed a number of contracts with local and organic farmers. As the home to one of the first interdisciplinary undergraduate Environmental Studies programs in the country, the university also offers an Education for Sustainable Living Program (including one course that, in 2006, allowed students to present local city and county officials, nonprofits and businesses with a green business program they'd designed for Santa Barbara).

#### University of Colorado at Boulder (www.colorado.edu)

Campus setting: Suburban
Undergraduate students: 26,165
Graduate students: 4,728
Tuition: \$24,797 (out-of-state):
\$6,635 (in-state)
Room and board: \$9,088

In 2005, CU students voted on a referendum that dedicates \$2.80 per student per semester to projects incorporating renewable energy, energy efficiency, recycling, waste reduction and other efforts to reduce the school's impact on climate and the environment. So far, the Sustainable CU Referendum has helped fund a solar canopy for the recreation center, improvements to the campus garden and a mobile biodiesel processor and educational facility. Offering degrees in environmental studies and environmental engineering, the university also allows students to offset their electricity use by purchasing wind power certificates for pennies a day (totaling \$29.30 a year for a student living on campus full-time).

#### University of Florida (Gainesville, Florida; www.ufl.edu)

Campus setting: Suburban

Tuition: \$17,841 (out-of-state);
Undergraduate students: 35,110

\$3,256 (in-state)

Graduate students: 11,439

Room and board: \$7,020

Since the early 1970s, UF students, faculty and staff have helped cultivate the school's organic gardens (now located in 75 plots across campus). In addition to adopting LEED Silver criteria for all new campus construction and renovation, the university plans to reduce its solid waste to nearly zero by 2015. Academic programs include more than 100 sustainability-related courses, and an alternative energy institute is presently being developed.

#### University of Iowa (Iowa City, Iowa; www.uiowa.edu)

Campus setting: Urban Tuition: \$19,465 (out-of-state);
Undergraduate students: 20,738 \$6,293 (in-state)

Graduate students: 6,051 Room and board: \$6,685

A member of the Chicago Climate Exchange (a marketplace for

reducing and trading greenhouse gas emissions), UI replaced about 30,000 tons of coal at its power plant by burning oat hulls purchased from Quaker Oats. The university, which offers a degree in environmental sciences, estimates that the project should reduce campus  $\mathrm{CO}_2$  emissions by 20% (the equivalent of 72,000 tons per year).

#### University of Michigan (Ann Arbor, Michigan; www.umich.edu)

Campus setting: Suburban Tuition: \$31,301 (out-of-state); Undergraduate students: 25,555 \$10,447 (in-state) Graduate students: 11,946 Room and board: \$8,190

With the largest alternative-fuel program of any U.S. university, UM powers 87% of its passenger-vehicle fleet exclusively with alternative fuel. The university also has the largest football stadium recycling program in the country and employs a LEED-certified engineer in each new construction project on campus. Ten of its undergraduate degrees—and a total of 429 individual courses—focus on sustainability.

#### University of New Hampshire

(Durham, New Hampshire; www.unh.edu)

Campus setting: Rural Tuition: \$24,030 (out-of-state); Undergraduate students: 11,971 \$10,980 (in-state) Graduate students: 2,877 Room and board: \$8,168

At UNH, sustainability often starts in the dining halls: Last year, the university began converting waste vegetable oil into biodiesel to fuel farm equipment and heat a number of campus greenhouses. Dedicated to advancing the local agricultural economy, the school also serves locally harvested food in all its cafeterias and hosts an annual, open-to-the-public dinner created from local foods. Boasting the longest-standing endowed university sustainability program in

Boasting the longest-standing endowed university sustainability program in the country, UNH offers a wide variety of curricula focused on climate change impacts.

the country (the Office of Sustainability, established in 1997), UNH offers a wide variety of curricula focused on climate change impacts (including courses such as Energy and the Environment, Global Environmental Change and Introduction to Climate).

#### University of North Carolina at Chapel Hill (www.unc.edu)

Tuition: \$19,682 (out-of-state); Campus setting: Suburban Undergraduate students: 17,124 \$5,034 (in-state) Graduate students: 8,254 Room and board: \$7,466

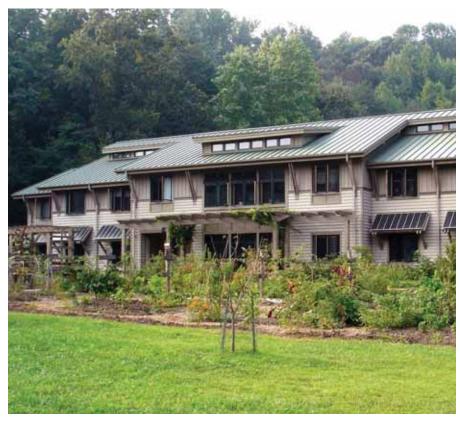
In 2005, 85% of the UNC student body voted to secure a \$4-persemester energy fee that supports renewable energy projects, including a solar hot water system installed on top of one of the residence halls, biodiesel use in the campus bus system and geothermal wells at the NC Botanical Garden Visitor Education Center. Recognized as one of the most attractive campuses in the country by the American Society of Landscape Artists, UNC maintains its grounds with the







WARREN WILSON COLLEGE: (clockwise from top) LEED Gold Orr Cottage; The WWC Recycling Crew takes charge of collecting food scraps from the dining and residence halls and turning the 'waste' into nutrient-rich compost in the GREENDRUM composter; The Natural Resource Crew provides lumber for college use, logged on campus, and milled on-site by students; A student transplants native grasses; The Eco Dorm







One of the only U.S. universities to include an environmental programs manager in its housing department, USC provides "green training" to all residence hall advisors and custodians.

help of planet-friendly strategies such as a tree protection plan, integrated pest management and recycling of landscape debris. Students can get their degrees in ecology, environmental science, environmental studies and environmental health science.

#### University of South Carolina at Columbia (www.sc.edu)

Campus setting: Urban Tuition: \$21,632 (out-of-state); Undergraduate students: 18,648 \$8,346 (in-state) Graduate students: 7,302 Room and board: \$6,550

One of the only U.S. universities to include an environmental programs manager in its housing department, USC provides "green training" to all residence hall advisors and custodians. The school not only offers an environmental major and minor, but incorporates sustainability into all sections of English 101. Taken by more than 80% of freshmen, the latter course gears its readings toward sustainability and grants students the opportunity to work with local parks and environmental education projects. Home to the Center for Fuel Cell Research (one of the nation's leaders in developing alternatives to petroleum), USC has also pledged that all new campus construction will meet LEED standards.

#### University of Vermont (Burlington, Vermont; www.uvm.edu)

Campus setting: Suburban Tuition: \$27,938 (out-of-state); Undergraduate students: 10,082 \$12,054 (in-state) Graduate students: 1,382 Room and board: \$8,024

In 2005, UVN launched an initiative to transform its Jericho Research Forest into the hub of its sustainable forestry program, allowing for hands-on academic activities and research. Students can self-design a major, or choose to study environmentally related fields like urban forestry, environmental engineering and environmental sciences. Last fall marked the opening of the Green House, a residential learning community that provides housing for 120 students from a range of majors.

#### University of Washington (Seattle, Washington;

www.washington.edu)

Campus setting: Urban Tuition: \$22,131 (out-of-state); Undergraduate students: 27,836 \$6,385 (in-state) Graduate students: 9,886 Room and board: \$9,198

UW environmental studies majors can take part in a number of special programs abroad, including "Choices and Change in the Arctic National Wildlife Refuge" (an opportunity to travel in the refuge and to speak with native peoples, industry and government representatives and scientists). The university's efforts in environmental protection include partnering with the county's metro transit agency to develop a program that keeps mercury in motor vehicles from reaching groundwater sources, constructing LEED-certified buildings and reducing pesticide use on campus.

#### Warren Wilson College (Asheville, North Carolina; www.warren-wilson.edu)

Campus setting: Rural **Tuition:** \$21,384

Undergraduate students: 841 Room and board: \$6,700

Graduate students: 67

As a result of student initiation, Warren Wilson now purchases wind energy to offset 100% of on-campus electricity usage. Two new dorms and the admissions and college relations building are all LEED Gold-certified, and the sustainably operated campus farm produces 2,000 pounds each of its main crops for consumption in the college cafeteria. Featuring an Environmental Studies department, Warren Wilson requires each student to work 15 hours per week on a crew that assists with some daily operation of the college. Recent work projects have included: the opening of a community bike shop (where students and staff can bring their bikes to be maintained or fixed free-of-charge); the preservation of the garden's summer harvest for use in the cafeteria during the academic year; and the improvement of water quality and wildlife habitat in the mountain region of North Carolina (through the use of sustainable strategies such as recycling portions of the campus waste stream).

This is KIWI's first annual "Green College Report." To be considered for the 2008 report, please send information on your college or university's eco commitments to KIWI via email to editorial@maymediagroup.com.



#### American College & University Presidents Climate Commitment

We, the undersigned presidents and chancellors of colleges and universities, are deeply concerned about the unprecedented scale and speed of global warming and its potential for large-scale, adverse health, social, economic and ecological effects. We recognize the scientific consensus that global warming is real and is largely being caused by humans. We further recognize the need to reduce the global emission of greenhouse gases by 80% by mid-century at the latest, in order to avert the worst impacts of global warming and to reestablish the more stable climatic conditions that have made human progress over the last 10,000 years possible.

While we understand that there might be short-term challenges associated with this effort, we believe that there will be great short-, medium-, and long-term economic, health, social and environmental benefits, including achieving energy independence for the U.S. as quickly as possible.

We believe colleges and universities must exercise leadership in their communities and throughout society by modeling ways to minimize global warming emissions, and by providing the knowledge and the educated graduates to achieve climate neutrality. Campuses that address the climate challenge by reducing global warming emissions and by integrating sustainability into their curriculum will better serve their students and meet their social mandate to help create a thriving, ethical and civil society. These colleges and universities will be providing students with the knowledge and skills needed to address the critical, systemic challenges faced by the world in this new century and enable them to benefit from the economic opportunities that will arise as a result of solutions they develop.

We further believe that colleges and universities that exert leadership in addressing climate change will stabilize and reduce their long-term energy costs, attract excellent students and faculty, attract new sources of funding, and increase the support of alumni and local communities.

## Accordingly, we commit our institutions to taking the following steps in pursuit of climate neutrality:

- 1. Initiate the development of a comprehensive plan to achieve climate neutrality as soon as possible.
  - a. Within two months of signing this document, create institutional structures to guide the development and implementation of the plan.
  - b. Within one year of signing this document, complete a comprehensive inventory of all greenhouse gas emissions (including emissions from electricity, heating, commuting, and air travel) and update the inventory every other year thereafter.
  - c. Within two years of signing this document, develop an institutional action plan for becoming climate neutral, which will include:
    - i. A target date for achieving climate neutrality as soon as possible.
    - ii. Interim targets for goals and actions that will lead to climate neutrality.
    - iii. Actions to make climate neutrality and sustainability a part of the curriculum and other educational experience for all students.
    - iv. Actions to expand research or other efforts necessary to achieve climate neutrality.
    - v. Mechanisms for tracking progress on goals and actions.

(continued...)

- 2. Initiate two or more of the following tangible actions to reduce greenhouse gases while the more comprehensive plan is being developed.
  - a. Establish a policy that all new campus construction will be built to at least the U.S. Green Building Council's LEED Silver standard or equivalent.
  - b. Adopt an energy-efficient appliance purchasing policy requiring purchase of ENERGY STAR certified products in all areas for which such ratings exist.
  - c. Establish a policy of offsetting all greenhouse gas emissions generated by air travel paid for by our institution.
  - d. Encourage use of and provide access to public transportation for all faculty, staff, students and visitors at our institution.
  - e. Within one year of signing this document, begin purchasing or producing at least 15% of our institution's electricity consumption from renewable sources.
  - f. Establish a policy or a committee that supports climate and sustainability shareholder proposals at companies where our institution's endowment is invested.
  - g. Participate in the Waste Minimization component of the national RecycleMania competition, and adopt 3 or more associated measures to reduce waste.
- 3. Make the action plan, inventory, and periodic progress reports publicly available by providing them to the Association for the Advancement of Sustainability in Higher Education (AASHE) for posting and dissemination.

In recognition of the need to build support for this effort among college and university administrations across America, we will encourage other presidents to join this effort and become signatories to this commitment.

Signed,	
President/ Chancellor Signature	_
President/ Chancellor Name	Please send the signed commitment document to:
College or University	Mary Reilly Second Nature 18 Tremont St., Suite 1120 Boston, MA 02108
Date	or fax to: 320-451-1612 or scan & email to: mreilly@secondnature.org

## Colleges & Universities who have signed the

## American College & University **Presidents Climate Commitment**

Alaska Pacific University

Albion College

Allegheny College

Alliant International University

Antioch College

Antioch University Los Angeles Antioch University New England

Arizona State University

Augsburg College

Bainbridge Graduate Institute

**Ball State University** 

**Bates College** 

Bellevue Community College

Berea College

Berry College

Berkshire Community College

Birmingham-Southern College

Black Hills State University

Boise State University

Bowdoin College

Bridgewater State College

Bristol Community College

Bryn Mawr College

Bunker Hill Community College

**Butte College** 

Cabrillo College

California State Polytechnic University, Pomona

California State University, Chico

California State University, Monterey Bay

Cape Cod Community College

Carleton College

Cascadia Community College

Catawba College

Cedar Valley College

Central Connecticut State University

Central Washington University

Centralia College

Centre College

Chandler-Gilbert Community College

Chatham University

Claremont McKenna College

Clark University

Clemson University

Coe College

Colby-Sawyer College

College of Marin

College of New Jersey, The

College of Saint Benedict

College of the Atlantic

College of Menominee Nation

College of the Sequoias

Columbus State Community College

Community College of Denver

Concordia College—New York

Concordia University

Connecticut College

Cornell College

Cornell University

County College of Morris

Dakota County Technical College

Delaware Valley College

Dickinson College

Dillard University

Drake University

Drury University

**Duke University** 

Eastern Connecticut State University

Eastern University

Eastern Washington University

Eckerd College

**Emerson College** 

Ferrum College

Fitchburg State College

Florida Gulf Coast University

Florida International University

Foothill-De Anza Community College District

(2 institutions)

Fort Lewis College

Framingham State College

Franklin & Marshall College

Frostburg State University

Furman University

George Mason University

Georgia Institute of Technology

Goddard College

Goshen College

Goucher College

Granite State College

Green Mountain College

Greenfield Community College

Guilford College

Hamilton College

Haverford College

Haywood Community College

Hocking College

Hollins University

Holyoke Community College,

Houston Community College

Howard Community College

Huertas Junior College

Iowa Lakes Community College

Ithaca College

James Madison University

Juniata College

Kankakee Community College

Kansas Wesleyan University

Keene State College

Kennesaw State University

Keystone College

LaGrange College

Lake Washington Technical College

Lane Community College

Lee College

Lesley University

Lewis & Clark College

Life University

Los Angeles Community College District

(9 institutions)

Luther College

Lynchburg College

Macalester College

Madison Area Technical College

Manchester Community College

Marymount Manhattan College

Massachusetts College of Art

Massachusetts College of Liberal Arts

Massachusetts Maritime Academy

Massasoit Community College

MassBay Community College

McDaniel College McLennan Community College

Medical University of South Carolina

Mesa Community College

Messiah College

Metropolitan State College of Denver

Middlebury College

Middlesex Community College

Mills College

Monroe Community College

Monterey Institute of International Studies

Montgomery County Community College

Moore College of Art & Design

Mount St. Mary's University

Mount Wachusett Community College

National Graduate School

New College of California

New Mexico State University (5 institutions)

New York University

Norfolk State University

North Shore Community College

Northern Essex Community College

Northeastern University

Northern Arizona University

#### Colleges & Universities who have signed the American College & University Presidents Climate Commitment (continued)

Northern Kentucky University

Northland College Oberlin College

Ohio University Ohlone College

Olympic College

Onondaga Community College

Orange County Community College (SUNY)

Oregon State University Pacific Lutheran University Palo Verde College Park University

Paul Smith's College Penn State Berks

Pitzer College

Plymouth State University Point Loma Nazarene University

Pomona College

Portland Community College Portland State University

Pratt Institute Prescott College

Presidio School of Management

Purchase College

Quinsigamond Community College

Randolph College

Richard Stockton College of New Jersey

Richland College Rider University

Rochester Community and Technical College

Rose-Hulman Institute of Technology

Rosemont College Rowan University

Roxbury Community College

Saint John's University Salem State College

San Francisco State University

Santa Clara University Santa Fe Community College

Seattle University

Sewanee: The University of the South

Shenandoah University

Southern Connecticut State University Southern New Hampshire University Southern Polytechnic State University

Southwestern College

Springfield Technical Community College

St. Lawrence University

State University of New York College at Cortland

State University of New York at Geneseo State University of New York at Oswego

State University of New York College of **Environmental Science and Forestry** 

Stetson University Sweet Briar College

Syracuse University

The City College of New York

The Evergreen State College

Tiffin University Toccoa Falls College Trinity College Union College Unity College University at Buffalo

University of Alaska, Anchorage

University of Arkansas University of Arizona

University of California (10 institutions)

University of Central Florida University of Cincinnati

University of Colorado at Boulder

University of Colorado at Colorado Springs

University of Colorado at Denver and Health Sciences Center University of Denver University of Florida

University of Hawai'i at Manoa

University of Idaho University of Maine

University of Maine at Augusta University of Maine at Farmington University of Maine at Fort Kent University of Maine at Machias University of Maine at Presque Isle University of Maryland, Baltimore County University of Maryland, College Park

University of Massachusetts University of Massachusetts Boston University of Massachusetts Dartmouth University of Massachusetts Lowell

University of Memphis University of Miami

University of Minnesota, Morris University of Montana (4 institutions) University of Nevada, Reno

University of New Hampshire

University of New Mexico (5 institutions) University of North Carolina at Chapel Hill

University of Oklahoma University of Oregon University of Pennsylvania

University of Pittsburgh at Titusville

University of Portland University of Puget Sound

University of Redlands University of Rhode Island

University of St. Francis

University of South Carolina (8 institutions)

University of South Dakota University of Southern Maine

University of Tennessee, Knoxville Campus

University of the Arts University of Vermont University of Washington University of Washington Bothell University of Washington Tacoma University of Wisconsin-Green Bay University of Wisconsin-Oshkosh University of Wisconsin-River Falls University of Wisconsin-Stevens Point University of Wisconsin-Superior

University of Wisconsin-Whitewater University of Wyoming Utah State University Villanova University Virginia Wesleyan College Weber State University

Wagner College Warren Wilson College Washington & Jefferson College

Washington and Lee University Washington College Washington State University Wentworth Institute of Technology

Wesley College

Westchester Community College Western Connecticut State University Western State College of Colorado Western Washington University Westfield State College

Westminster College Whatcom Community College

Wheelock College Whittier College Whitworth University Wilkes University Willamette University William Paterson University

Wilson College Winona State University Worcester State College

