

GreenRibbonSchools



2014-2015 Post-Secondary Nominee Presentation Form

ELIGIBILITY CERTIFICATIONS**College or University Certifications**

The signature of college or university President (or equivalent) on the next page certifies that each of the statements below concerning the institution's eligibility and compliance with the following requirements is true and correct to the best of their knowledge.

1. The college or university has been evaluated and selected from among institutions within the Nominating Authority's jurisdiction, based on high achievement in the three ED-GRS Pillars: 1) reduced environmental impact and costs; 2) improved health and wellness; and 3) effective environmental and sustainability education.
2. The college or university is providing the U.S. Department of Education Office of Civil Rights (OCR) access to information necessary to investigate a civil rights complaint or to conduct a compliance review.
3. OCR has not issued a violation letter of findings to the college or university concluding that the nominated college or university has violated one or more of the civil rights statutes. A violation letter of findings will not be considered outstanding if OCR has accepted a corrective action plan to remedy the violation.
4. The U.S. Department of Justice does not have a pending suit alleging that the college or university has violated one or more of the civil rights statutes or the Constitution's equal protection clause.
5. There are no findings by Federal Student Aid of violations in respect to the administration of Title IV student aid funds.
6. The college or university is in good standing with its regional or national accreditor.
7. The college or university meets all applicable federal, state, local and tribal health, environmental and safety requirements in law, regulations and policy and is willing to undergo EPA on-site verification.

U.S. Department of Education Green Ribbon Schools 2014-2015

Public 4-Year Public 2-Year Private Non-Profit

Name of President/Chancellor: Dr. Teresa A. Sullivan

(Specify: Ms., Miss, Mrs., Dr., Mr., etc.) (As it should appear in the official records)

Official College or University Name: University of Virginia

(As it should appear on an award)

College or University Street

Mailing Address: Madison Hall, P.O. Box 400224, Charlottesville, VA 22904-4224
1827 University Avenue, Charlottesville, VA 22903

County: Charlottesville IPEDS Number*: 234076

Telephone: 434-924-3337 Fax: 434-924-9732

Web site/URL: www.virginia.edu E-mail: tas6n@eservices.virginia.edu

*Integrated Postsecondary Education Data System

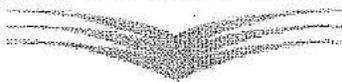
I have reviewed the information in this application and certify that to the best of my knowledge all information is accurate.

Teresa A. Sullivan

Date: January 13, 2015

(President's/Chancellor's Signature)

GreenRibbonSchools

**Nominating Authority's Certifications**

The signature by the Nominating Authority on this page certifies that each of the statements below concerning the college or university's eligibility and compliance with the following requirements is true and correct to the best of the Authority's knowledge.

1. The college or university has been evaluated and selected from among institutions within the Nominating Authority's jurisdiction, based on high achievement in the three ED-GRS Pillars: 1) reduced environmental impact and costs; 2) improved health and wellness; and 3) effective environmental and sustainability education.
2. The college or university meets all applicable federal, state, local and tribal health, environmental and safety requirements in law, regulations and policy and is willing to undergo EPA on-site verification.

Name of Nominating Agency: State Council for Higher Education for Virginia

Name of Nominating Authority: Mr. Russell Carmichael

(Specify: Ms., Miss, Mrs., Dr., Mr., Other)

I have reviewed the information in this application and certify to the best of my knowledge that the school meets the provisions above.

Date: 1/27/15

(Nominating Authority's Signature)

SUMMARY AND DOCUMENTATION OF NOMINEE'S ACHIEVEMENTS

Provide a coherent "snapshot" that describes how your college or university is representative of your jurisdiction's highest achieving green school efforts. Summarize your strengths and accomplishments in all three Pillars and nine Elements. Then, include documentation and concrete examples for work in every Pillar and Element.

SUBMISSION

The nomination package, including the signed certifications and documentation of evaluation in the three Pillars should be converted to a PDF file and emailed to green.ribbon.schools@ed.gov according to the instructions in the Nominee Submission Procedure.

OMB Control Number: 1860-0509

Expiration Date: February 28, 2015

Public Burden Statement

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless such collection displays a valid OMB control number. The valid OMB control number for this information collection is 1860-0509. Public reporting burden for this collection of information is estimated to average 37 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. The obligation to respond to this collection is required to obtain or retain benefit P.L. 107-110, Sec. 501, Innovative Programs and Parental Choice Provisions. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the U.S. Department of Education, 400 Maryland Ave., SW, Washington, DC 20202-4536 or email ICDocketMgr@ed.gov and reference the OMB Control Number 1860-0509. Note: Please do not return the completed ED-Green Ribbon Schools application to this address.



Green Ribbon Schools Application: University of Virginia

January 6, 2015 Contact: Andrea Trimble, Director – Office for Sustainability atrimble@virginia.edu or 434.982.4526

SUMMARY NARRATIVE

The University of Virginia (U.Va.), founded by Thomas Jefferson in 1819, is a community of 25,000 students and almost 13,000 faculty and staff. U.Va.'s grounds feature Thomas Jefferson's Rotunda and Academical Village (a UNESCO World Heritage site) and a total of 525 buildings encompassing 16.5 million square feet. The U.Va. Health System includes a 604-bed hospital and Level I Trauma Center, with 750,000 outpatient visits a year.

Green Ribbon Schools Pillar I: Reduced Environmental Impact and Costs

Element 1: Greenhouse Gas Emissions: The University of Virginia has set a goal to reduce greenhouse gas emissions, as well as reactive nitrogen emissions, 25% below 2009 levels by 2025. Much of the research necessary to measure the university's nitrogen footprint originated at the University of Virginia, and U.Va. is the first institution of higher education to set a target to reduce its nitrogen footprint. Additionally, as a partner in the U.S. Department of Energy's Better Buildings Challenge, U.Va. has set a goal to reduce building energy use intensity 20% by 2020 below a 2010 baseline. To date, U.Va. has achieved a 6% reduction in greenhouse gas emissions and a 3% reduction in building energy use intensity despite an increase in overall square footage.

Element 2: Water Quality, Efficiency, and Conservation: U.Va.'s total water consumption in fiscal year 2014 has been reduced 6% compared to the prior year and more than 32% since the 1999 peak despite an increase in square footage and increase in the number of faculty, staff, and students.

Element 3: Solid and Hazardous Waste Management: U.Va. has maintained a proactive recycling program for over 25 years. In calendar year 2013, U.Va. diverted 35.1 percent of its municipal solid waste (MSW) from landfills, which represents 4077 tons of aluminum, paper, cardboard, glass, plastics, and other materials. In addition to recycling MSW, the University recycled 4604 tons of ash, tires, batteries, oil, and chemicals, bringing the total recovered materials to 8,681 tons, and the total diversion rate to 53.5 percent.

Element 4: Alternative Transportation: The Parking and Transportation department's Transportation Demand Management Program provides multi-modal options for students, faculty and staff, including a bike share program, discounts for carpooling, a ZipCar program, a bus network, bike fix-it stations, and free fare on city buses. U.Va. was named a Bronze-Level Bicycle Friendly University by the League of American Bicyclists in recognition of its efforts to promote bicycling in five primary areas: engineering, encouragement, education, enforcement, and evaluation.

Green Ribbon Schools Pillar II: Improved Health and Wellness

Element 1: Environmental Health: This year, U.Va. Building Services in Facilities Management achieved Green Seal GS-42 certification, becoming the first university in Virginia and the third in the country to attain this level of certification for its green cleaning program. Additionally, the Environmental Health & Safety (EH&S) department works across the university to help ensure a safe, healthy, and secure environment. The Environmental Resources department, within Facilities



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Management, provides support with air and stormwater permitting, compliance, and planning, erosion and sediment control inspections, environmental impact reviews, petroleum storage management, environmental management systems, various sustainability programs, and all other regulatory or environmental concerns that may arise.

Element 2: Coordinated School Health: U.Va. offers a multitude of programs, educational opportunities, and incentives to promote the health of its students, faculty, and staff. The Hoos Well program for employees focuses on six dimensions of wellness (activity, emotional, nutrition, career, social, and spiritual). A wide range of health and wellness services exist for students, via the Department of Student Health and Counseling and Psychological Services. Within the Department of Student Health, there are several healthy promotion services – peer education, nutrition, social norms marketing, tobacco cessation, eating disorder support, and substance abuse prevention. The National Social Norms Institute at U.Va. “links best evidence with practice to promote effective social norm marketing campaigns to improve health on college campuses and beyond.”

U.Va. Dining seeks to provide local, organic, and healthy, humanely raised, and fairly traded food options for students. U.Va Dining has been awarded the Virginia Environmental Excellence Program's E3 Designation for its commitment to superior environmental performance. U.Va. is the first and only University to receive the E3 rating in Virginia. U.Va. Dining also recently achieved Marine Stewardship Council certification.

Green Ribbon Schools Pillar III: Effective Environmental and Sustainability Education

Element 1: Interdisciplinary Learning:

Global Studies – Environments + Sustainability Major : This interdisciplinary major is housed with the College of Arts and Sciences and features four tracks: Development Studies, Public Health, Security & Justice, and Environments + Sustainability. Students majoring in Global Studies – Environments + Sustainability address problems associated with human transformations of the earth through the triple lens of environment, equity and economy.

Global Sustainability Minor: The interdisciplinary Minor in Global Sustainability benefits students of all majors who want to understand the many facets of sustainability and learn how to apply this knowledge to their daily lives. Courses focus on systems thinking, engaged citizenship, innovation, research, and interdisciplinary thinking. The Minor empowers students across the University in common efforts to accomplish real change through community engagement with sustainable projects in their communities and beyond. The Minor also establishes connections between different disciplines and prepares students to incorporate sustainable practices into their varied future careers.

Element 2: STEM Content Knowledge: U.Va.'s interdisciplinary Department of Environmental Sciences department offers a Bachelor of Arts degree, a Bachelor of Science degree, and a minor. The graduate program in environmental sciences offers a Master of Arts, Master of Science, and Doctor of Philosophy. Dozens of courses in atmospheric sciences, ecology, geosciences, hydrology, and general environmental science are offered. Additionally, several courses in the School of Engineering and Applied Sciences and the School of Architecture provide opportunities for students to learn more about global sustainability issues and the potential for technology to solve global challenges.



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Element 3: Civic Engagement Knowledge: U.Va.'s educational outreach and behavior change programs, events, and campaigns led by the Office for Sustainability are building sustainability literacy and awareness across the university, which translates into action. Ongoing programs include a Green Workplace program, student intern program, Sustainability Partners (staff engagement), and Sustainability Advocates (student engagement). Annual outreach events include the Game Day Challenge, UVA Sustainability Days, Earth Week, World Water Day, and UVA Saves Hour. Annual outreach campaigns include the Dorm Energy Race, a Litterati Campaign, Recyclemania, Duplex Derby, and Chuck it for Charity. These programs seek to change social norms by promoting sustainability behavior to reduce consumption on grounds. There are also several opportunities for students to engage in sustainability-related extra-curricular activities, via dozens of student organizations.

The University Committee on Sustainability is co-chaired by a faculty and staff member and consists of faculty, student, and staff members dedicated to fostering and building sustainability across grounds. There are three sub-committees: Teaching and Research, Civic Engagement, and Environmental Stewardship. The Environmental Stewardship subcommittee consists of twelve working groups and five task forces. Working groups include Water, Energy, Storm Water, Green Dining, Light Pollution, Transportation, Open Space, and Materials. Task forces include Waste/Recycling/Composting Graphics and Standards, Zero Waste Athletics, Waste Reduction Goal, and a Water Reduction Goal task force. Each subcommittee group is co-chaired by at least one staff or faculty member and one student. The success of the program is measured by the breadth of projects implemented by the group and the opportunity provided to students and staff to combine research, learning, and professional expertise in designing and implementing innovative projects to reduce U.Va.'s carbon footprint, energy use, nitrogen footprint, water use, recycling and waste diversion, and similar focus areas.



University of Virginia – Full Green Ribbon Schools Application

January 6, 2015 Contact: Andrea Trimble, Director – Office for Sustainability atrimble@virginia.edu or 434.982.4526

The University of Virginia (U.Va.), founded by Thomas Jefferson in 1819, is a community of 25,000 students and almost 13,000 faculty and staff. U.Va.'s grounds feature Thomas Jefferson's Rotunda and Academical Village (a UNESCO World Heritage site) and a total of 525 buildings encompassing 16.5 million square feet. The U.Va. Health System includes a 604-bed hospital and Level I Trauma Center, with 750,000 outpatient visits a year.

Green Ribbon Schools Pillar I: Reduced Environmental Impact and Costs

Element 1: Greenhouse Gas Emissions: The University of Virginia (U.Va.) has set a goal to reduce greenhouse gas emissions, as well as reactive nitrogen emissions, 25% below 2009 levels by 2025. Much of the research necessary to measure the University's nitrogen footprint originated at the University of Virginia, and U.Va. is the first institution of higher education to set a target to reduce its nitrogen footprint. Additionally, as a partner in the U.S. Department of Energy's Better Buildings Challenge, UVA has set a goal to reduce building energy use intensity 20% by 2020 below a 2010 baseline. To date, U.Va. has achieved a 6% reduction in greenhouse gas emissions and a 3% reduction in building energy use intensity despite an increase in overall square footage.

Key aspects of these reductions include sustainable buildings and operations programs, behavior changes programs, Delta Force retro-commissioning efforts, and chiller plant optimization work. The Delta Force program, which is funded via metered savings from project to project, identifies the most energy-intensive buildings on grounds, takes a comprehensive look at the building's systems, and strategically identifies and implements opportunities to increase efficiency. Energy, carbon, and financial cost avoidance accrues primarily through the retro-commissioning of HVAC equipment. Since 2007, almost \$6.4 million has been invested in Delta Force projects. With an avoided utility cost to date of nearly \$15.3 million, the simple return on investment is 2.4:1 since the program's inception. Buildings that go through the Delta Force program typically realize a 15-20% energy cost reduction with a 4-5 year payback.

The chilled water plants consume approximately one fifth of the total electricity used at the University. The team continually searches for opportunities to operate more efficiently. Over the past four years, the average operating efficiency has improved by approximately 20%. That translates to an avoided cost of nearly \$1 million dollars annually in the amount of electricity required to generate the needed cooling. That

Additionally, the University has 34 LEED certified buildings, representing over 1.4 million square feet, as well as 14 registered projects.

Element 2: Water Quality, Efficiency, and Conservation: U.Va.'s total water consumption in fiscal year 2014 has been reduced 6% compared to the prior year and more than 32% since the 1999 peak despite an increase in square footage and increase in the number of faculty, staff, and students.

The chilled water plants use approximately one-fourth of the total water consumed at the University. Efforts to reduce water consumption include condensate recovery, reverse osmosis purification of blowdown water, and spring water collection. This year, three condensate recovery projects alone reclaimed over 922,000 gallons of water from building air handling units, which was then used in the chiller plants to produce chilled water for air conditioning.



The University has adopted Facilities Design Guidelines with specific design requirements for domestic water systems for all replacements, retrofits, renovations, and new construction. Such guidelines supplement mandatory codes, industry standards, and other authoritative resources applicable under the laws of the Commonwealth of Virginia and the Federal Government. These include prohibiting use of domestic water in single-pass air-conditioning units, mandating the use of central chiller plants, requiring the recirculation of chilled water systems as a source of cooling, mandating the installation of individual metering for all new buildings, and mandating the use of flow aerators for faucets as well as low flow toilets, urinals, and shower heads.

In addition to potable water conservation efforts, U.Va. has also worked for more than a decade on innovative stormwater management on Grounds. Efforts to recover water for reuse have also figured prominently in the University's sustainability efforts. Cisterns, which capture and store rainwater for use in landscaping applications, have been installed at the Amphitheater, the Hunter Smith Band Building, and the South Lawn Complex. In some locations, water-condensate from air conditioning units is captured and used for landscape irrigation. A collection sump has also been installed in the Chemistry building to collect air handler condensate for use in the central chilled water plant cooling towers

Element 3: Solid and Hazardous Waste Management: U.Va. has maintained a proactive recycling program for over 25 years. In calendar year 2013, U.Va. diverted 35.1 percent of its municipal solid waste (MSW) from landfills, which represents 4077 tons of aluminum, paper, cardboard, glass, plastics, and other materials. In addition to recycling MSW, the University recycled 4604 tons of ash, tires, batteries, oil, and chemicals, bringing the total recovered materials to 8,681 tons, and the total diversion rate to 53.5 percent. The recycling program continues to develop and expand with the offering of e-cycling throughout Grounds and during move-out. In spring 2014, over 8,500 pounds of electronics were recycled during move-out alone, as well as 8,842 pounds of furniture, which was donated to local charities for needy members of the Charlottesville community.

The Reusable Office Supply Exchange (R.O.S.E.) offers a warehouse space both to dispose of gently- or never-used office supplies and to find such supplies instead of purchasing new ones. The exchange is open to all faculty, staff, and students and stocks a variety of common office supplies. The MERCI (Medical Equipment Recovery of Clean Inventory) Program diverts clean and unused surplus medical supplies and equipment from U.Va. Health System's waste stream to local, national, and foreign organizations and humanitarian projects. In 2013, over 50,000 pounds of clean and unused medical supplies, with a value of several million dollars, were kept out of landfills and medical incinerators.

U.Va. Dining has introduced several programs to provide or promote waste-free containers in dining halls and retail dining outlets. The reusable to-go container program provides a zero-waste alternative to compostable to-go containers and a reusable punch-card incentive program offers rewards such as free coffee and meals to participants who use a reusable mug, bag, or to-go container. Composting is offered in over 20 locations and to date has helped divert over 600 tons of organic matter from landfills.

Additionally, in the 2014 football season, U.Va. Recycling partnered with Athletics and Dining and others to launch a pilot zero waste program in the football stadium beginning in the suites, where the majority of food waste is generated. Last season, this program yielded over 15,000 pounds of compost and an 80% diversion rate from the suites.

Element 4: Alternative Transportation: The Parking and Transportation department's Transportation Demand Management Program (TDM) provides multi-modal options for students, faculty and staff, including a bike share program,



discounts for carpooling, a ZipCar program, a bus network, bike fix-it stations, and free fare on the city buses. The Department takes a proactive approach to reducing single-occupancy vehicle use to reduce congestion in the Charlottesville area, minimize greenhouse gas emissions, offset parking expansion to allow better land use, and improve the overall quality life on Grounds through its TDM program. TDM seeks to meet the University's transportation needs associated with future growth by reducing the demand of vehicular use and encouraging options for travel, including walking, bicycling, and use of public transportation.

U.Va. was named a Bronze-Level Bicycle Friendly University by the League of American Bicyclists in recognition of its efforts to promote bicycling in five primary areas: engineering, encouragement, education, enforcement, and evaluation. 2014 saw the selection of Social Bicycles, Inc. to provide a 120-bicycle, 17 station bicycle share system at the U.Va. The UBike system provides a brand-new mobility option on Grounds for use by students, faculty, staff, and visitors alike.

In addition to Parking and Transportation TDM initiatives, the Department has also implemented a strict Environmental Management System (EMS) program. Parking and Transportation's EMS policy is designed to minimize its environmental impacts by encouraging recycling, using cleaner fuel sources, reducing waste and energy consumption, and integrating environmentally friendly practices into day-to-day operations.

Green Ribbon Schools Pillar II: Improved Health and Wellness

Element 1: Environmental Health: This year, U.Va. Building Services in Facilities Management achieved Green Seal GS-42 certification, becoming the first university in Virginia and the third in the country to attain this level of certification for its green cleaning program. This required hours of training and documentation and a real commitment to ensuring that facilities at U.Va. use only products with low emissions, which in turn, improves indoor health and environmental quality. With a focus on cleaning for health, Building Services is emerging as a leader in the green cleaning movement according to Green Seal, the organization that sets the standard for sustainability in cleaning.

Additionally, the Environmental Health & Safety (EH&S) department works across the university to help ensure a safe, healthy, and secure environment. EH&S is responsible for coordinating and monitoring the execution of all health, safety, and hazardous material use activities at the University. U.Va. has an official Environmental Health and Safety policy, which states: "All University activities shall be conducted using reasonable precautions to protect employees, students, the public and the environment so as to minimize dangers to life, safety and property. The University regards its responsibility for providing a healthful and safe working environment for its faculty, staff and students to be a high priority. To provide reasonable assurance that the health and safety of all individuals on properties controlled or managed by the University are maintained:

- A. Safety standards will be adopted and/or developed for all applicable University activities, including the management of hazardous substances;
- B. Faculty, staff and students will be trained to recognize hazards regarding those standards and to employ safe work practices;
- C. Periodic audits will be conducted to determine compliance with the published standards including those contained in local, state and federal laws and regulations regarding health and safety. Appropriate correction will be prescribed where necessary and the response monitored to assure compliance;



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- D. A set of possible emergency situations will be identified and appropriate emergency response procedures will be established.
- E. Injuries and accidents will be reported and analyzed;
- F. A health insurance program will be provided and availability of employment-related health services will be assured.”

The Environmental Resources department, within Facilities Management, provides support with air and stormwater permitting, compliance, and planning, erosion and sediment control inspections, environmental impact reviews, petroleum storage management, environmental management systems, various sustainability programs, and all other regulatory or environmental concerns that may arise.

For capital projects, the University's Facility Design Guidelines require careful consideration of outside air intake locations for ventilation: "Outside air intakes shall not draw in exhaust air from adjacent systems, loading docks, parking lots, emergency generators, emergency or ambulance vehicle entrances, chemical storage, sewer manholes or other external sources of noxious or toxic fumes. Consideration also shall include proximity to wind-blown dust from streets, fields and ground care activities, designated tobacco smoking areas, combustion by-products and biogenic materials related to evaporative cooling towers or intentional human contamination."

Element 2: Coordinated School Health: U.Va. offers a multitude of programs, educational opportunities, and incentives to promote the health of its students, faculty, and staff.

The Hoos Well program for employees focuses on six dimensions of wellness (activity, emotional, nutrition, career, social, and spiritual) and includes programs such as the Wahoo Fitness Challenge, Weight Watchers, the Beginning Right Maternity Program, Hoo's Fit Fridays, Steps@UVA., tobacco cessation programs, and activities through IM-Rec Sports. The U.Va. Nutrition Counseling Center offers one-on-one appointments and classes. U.Va. WorkMed provides screenings and activities. The Faculty and Employee Assistance Program helps staff resolve personal concerns that may affect job performance, such as work life balance. Other resources include a Diabetes Education Management Program and an Exercise Physiology Core Lab. U.Va. Sustainability and Hoos Well recently teamed up to launch a Sustainability and Wellness video, with tips for a healthier planet and self – three ways that U.Va. employees can increase their wellness while reducing their environmental footprint.

A wide range of health and wellness services exist for students, via the Department of Student Health and Counseling and Psychological Services. Within the Department of Student Health, there are several healthy promotion services – peer education, nutrition, social norms marketing, tobacco cessation, eating disorder support, and substance abuse prevention. These services include outreach presentations, patient education, special events, educational materials, and health consulting. These services are pre-paid as part of tuition and fees. The Office of Health Promotion's mission is to "foster healthy student communities to achieve optimal health and wellness". The National Social Norms Institute at U.Va. "links best evidence with practice to promote effective social norm marketing campaigns to improve health on college campuses and beyond." Their campaigns focus on perception versus reality in areas such as alcohol use, smoking, and drug use.

Several gyms, paid via student tuition and fees, and IM-Rec and club sports are available to all students. U.Va. Dining seeks to provide local, organic, and healthy, humanely raised, and fairly traded food options for students. U.Va Dining has been awarded the Virginia Environmental Excellence Program's E3 Designation for its commitment to superior environmental performance. U.Va. is the first and only University to receive the E3 rating in Virginia. U.Va. Dining also recently achieved Marine Stewardship Council certification.



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Green Ribbon Schools Pillar III: Effective Environmental and Sustainability Education

Element 1: Interdisciplinary Learning:

Global Studies – Environments + Sustainability Major : The inaugural class of the Global Studies Major was selected this year. This interdisciplinary major is housed with the College of Arts and Sciences and features four tracks: Development Studies, Public Health, Security & Justice, and Environments + Sustainability. Students majoring in Global Studies – Environments + Sustainability address problems associated with human transformations of the earth through the triple lens of environment, equity and economy. Courses in this track include global history, humanities, cultures, and options in dozens of electives grouped into environment, equity, economy and policy. Courses include *The Inconvenient Truce – Climate You, and CO₂*, *Green Cities/Green Sites*, *Planning for Climate Change*, *Degrowth*, *Ecology & Society*, *Community Food Systems*, *Religion Ethics and the Environment*, *The Business of Saving Nature in Costa Rica*, *Politics of Food*, *Ecological Economics*, *Environmental Decisions*, among others.

Global Sustainability Minor: The interdisciplinary Minor in Global Sustainability benefits students of all majors who want to understand the many facets of sustainability and learn how to apply this knowledge to their daily lives. Courses focus on systems thinking, engaged citizenship, innovation, research, and interdisciplinary thinking. The Minor empowers students across the University in common efforts to accomplish real change through community engagement with sustainable projects in their communities and beyond. The Minor also establishes connections between different disciplines and prepares students to incorporate sustainable practices into their varied future careers.

Thirty-nine students graduated with the UVA Global Sustainability Minor in May 2014. The class of 2014 marks the fourth cohort of students to graduate with Minor, which requires five courses, including the foundation course *Global Sustainability*, one course each from the categories of equity, environment, and economy, and a final capstone course.

Mellon Foundation Professorships: In 2011, the College of Arts of Sciences announced a five-year grant from the Andrew W. Mellon Foundation to support interdisciplinary faculty positions, including in the area of Environmental Humanities. In fall 2013, Professor Willis Jenkins joined UVA to teach in the area of Religion, Ethics, and the Environment.

Element 2: STEM Content Knowledge: U.Va.'s interdisciplinary Department of Environmental Sciences department offers a Bachelor of Arts degree, a Bachelor of Science degree, and a minor. The graduate program in environmental sciences offers a Master of Arts, Master of Science, and Doctor of Philosophy. Dozens of courses in atmospheric sciences, ecology, geosciences, hydrology, and general environmental science are offered. A wide range of courses are offered, with titles such as *A Sustainable Sea*, *Marine Conservation: Science as a Way of Knowing*, and *Earth Systems Technology and Management*. Additionally, students participate in cross-disciplinary research projects across each of these areas, such as the *Global Environmental Change Program* and the *Virginia Coast Reserve Long-Term Ecological Research Program*. Additionally, several courses in the School of Engineering and Applied Sciences and the School of Architecture provide opportunities for students to learn more about global sustainability issues and the potential for technology to solve challenges. These include the following courses: *Special Topics in Engineering – Solar Car*, *Energy Performance Workshop*, *Power*, *Environmental Engineering*, *Water Resources Engineering*, *Coastal Engineering: Energy and*



Environment, Green Engineering, and Science/Technology in Social and Global Context: Infrastructure and Development. Additionally, within the School of Architecture, the ecoMOD and ecoREMOD program is a research and educational project that involves students and faculty in creating or renovating sustainable modular and affordable housing units within communities.

Element 3: Civic Engagement Knowledge: U.Va.'s educational outreach and behavior change programs, events, and campaigns led by the Office for Sustainability are building sustainability literacy and awareness across the university, which translates into action. Ongoing programs include a Green Workplace program, student intern program, Sustainability Partners (staff engagement), and Sustainability Advocates (student engagement). Annual outreach events include the Game Day Challenge, UVA Sustainability Days, Earth Week, World Water Day, and UVA Saves Hour. Annual outreach campaigns include the Dorm Energy Race, a Litterati Campaign, Recyclemania, Duplex Derby, and Chuck it for Charity. These programs seek to change social norms by promoting sustainability behavior to reduce consumption on grounds.

The Office for Sustainability's Sustainability Advocacy program helps students on Grounds learn about sustainability efforts at U.Va. Fifty student volunteers promote programs, educate peers and help grow U.Va.'s green efforts. Sustainability Advocates (SAs) are assigned to all first-year dorms, upper-class dorms, residential colleges, dining halls and libraries. SAs meet every other week and educate their residents on sustainability issues throughout the school year. The SA Leader Program is an additional program designed to provide leadership experience to those who have gone through the Sustainability Advocate Program, as well as provide an additional resource for Sustainability Advocates. Advocate Leaders maintain consistent communication with designate SAs, and help foster an environment where SAs can learn more about sustainability at U.Va. and develop the skills necessary to become an effective leader. Additionally, they serve as intermediaries between the Student Outreach Employees and the SAs, making sure that their SAs fully understand what is asked of them and actively participate in the SA program.

The University Committee on Sustainability is co-chaired by a faculty and staff member and consists of faculty, student, and staff members dedicated to fostering and building sustainability across grounds. There are three sub-committees: Teaching and Research, Civic Engagement, and Environmental Stewardship. The Environmental Stewardship subcommittee consists of twelve working groups and five task forces. Working groups include Water, Energy, Storm Water, Green Dining, Light Pollution, Transportation, Open Space, and Materials. Task forces include Waste/Recycling/Composting Graphics and Standards, Zero Waste Athletics, Waste Reduction Goal, and a Water Reduction Goal task force. Each subcommittee group is co-chaired by at least one staff or faculty member and one student. The success of the program is measured by the breadth of projects implemented by the group and the opportunity provided to students and staff to combine research, learning, and professional expertise in designing and implementing innovative projects to reduce U.Va.'s carbon footprint, energy use, nitrogen footprint, water use, recycling and waste diversion, and similar focus areas. Students receive practical experience in real world applications of sustainability through projects outside the classroom, which allows students to learn from dedicated professionals while applying their knowledge. The projects implemented by the ESS working groups build student leadership skills and sustainability knowledge by partnering students with staff and faculty to implement projects on Grounds.

There are also several opportunities for students to engage in sustainability-related extra-curricular activities, via dozens of student organizations:

Student Council Sustainability Sub-Committee

Food

Campus Kitchen



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Food Collaborative
Slow Food
Hereford Garden (TJ Learning Garden)
Community Garden
Morven Kitchen Garden
Madison House Garden
Green Dining
DECAF
Greens 2 Grounds

Activism

Green Grounds
Net Impact
Sustainability Advocates
IFC Sustainability
ENACTUS
GIFT Committee
Climate Action Society
APO
Habitat for Humanity at UVa

Get Global

Global Brigades Water
Global Brigades Medical and Dental
Global Brigades Architecture
Global Brigades Environmental
Global Development Organization

Transportation, Misc.

Ride Forward
Bike UVa
Outdoors Club
Crafting for Conservation

Academics

Engineering Students Without Borders
SARC EcoReps
Student Entrepreneurs for Economic Development (SEED)
Environmental Sciences Organization