

# University of Michigan

The following information was submitted through the [Campus Sustainability Data Collector](#) to be shared with Sierra magazine for consideration in their Cool Schools publication.

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*The information presented in this submission is self-reported and has not been verified by AASHE or a third party. If you believe any of this information is erroneous, please see the [process for inquiring](#) about the information reported by an institution.*

# Education & Research

## Co-Curricular Education

This subcategory seeks to recognize institutions that provide their students with sustainability learning experiences outside the formal curriculum. Engaging in sustainability issues through co-curricular activities allows students to deepen and apply their understandings of sustainability principles. Institution-sponsored co-curricular sustainability offerings, often coordinated by student affairs offices, help integrate sustainability into the campus culture and set a positive tone for the institution.

<b>Credit</b>
Student Sustainability Educators Program
Student Sustainability Outreach Campaign
Sustainability in New Student Orientation
Sustainability Outreach and Publications
Student Group
Organic Garden
Model Room in a Residence Hall
Themed Housing
Sustainable Enterprise
Sustainability Events
Outdoors Program
Themed Semester or Year

# Student Sustainability Educators Program

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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## Criteria

Institution coordinates an ongoing peer-to-peer sustainability outreach and education program for degree-seeking students. The institution:

- Selects or appoints students to serve as educators and formally designates the students as educators,
- Provides formal training to the educators in how to conduct outreach, and
- Offers faculty or staff and/or financial support to the program.

This credit focuses on programs for degree-seeking students enrolled in a for-credit program. Continuing education and/or non-credit students are excluded from this credit.

Student clubs or groups, which are covered by *Co-Curricular Education Tier Two Credit 1*, are not eligible for this credit unless the group meets the criteria outlined above.

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"---" indicates that no data was submitted for this field

## Total number of degree-seeking students enrolled at the institution :

42393

## Program name (1st program) :

Planet Blue Student Ambassador Program

## Number of students served by the program to whom peer-to-peer sustainability outreach and education is offered (1st program) :

8185

## A brief description of the program, including examples of peer-to-peer outreach activities (1st program) :

Literature indicates that the top challenge for this type of “Eco-Rep” program is “student accountability” and that the best practice is to “create solid support structures” (Erickson, 2009). With this in mind, the seminar is designed to provide a solid foundation for success through direct linkages with key staff and faculty; ensure accountability to peers and instructors; and create an environment for co-learning via peer-to-peer mentoring. The seminar meets seven times during the semester for two hours, with every other meeting conducted jointly with the Planet Blue Staff Ambassadors.

This course and the program it anchors will help achieve a primary goal of the Office of Campus Sustainability and the President's Sustainability Initiative: inspiring community involvement in the environmental sustainability issues facing the campus and world. This involvement will also help promote cost-savings at U-M through sustainability practices, facilitate cross-campus collaborations, and foster behavioral changes that will spread from the residence halls to the rest of the campus.

**A brief description of how the student educators are selected (1st program) :**

25 Planet Blue Student Ambassadors are selected to participate based on an application process and the requirement of each PBSA living in the dorms for the year that they are participating.

**A brief description of the formal training that the student educators receive (1st program) :**

A two-part seminar is required for all Planet Blue Student Ambassadors, where they will gain a framework for fostering positive sustainable behavior change in a context that provides support from other student ambassadors as well as staff ambassadors.

**A brief description of the staff and/or other financial support the institution provides to the program (1st program) :**

The Graham Environmental Sustainability Institute oversees the Planet Blue Student Ambassador Program and employs one part-time coordinator who is the key resource person for the coalition of departments facilitating the program. Funding is provided by the Office of the Provost as part of President Coleman's Sustainability Commitment.

**The website URL for 1st Program :**

<http://sustainability.umich.edu/content/planet-blue-student-ambassador-program>

**Program name (2nd program) :**

Student Sustainability Initiative

**Number of students to whom peer-to-peer sustainability outreach and education is offered (2nd program) :**

42393

**A brief description of the program, including examples of peer-to-peer outreach activities (2nd program) :**

Current Projects

Below is a list of initiatives that the SSI Board and some member groups are currently pursuing. To learn about the many other projects that SSI community members are or have been involved in, please visit our wiki!

Sustainability Tipping Point

A group of students in Environ 391: Sustainability and the Campus are trying to change the perception of sustainability on campus. Yes, it's a daunting task, but they're giving it a shot. Recently, they've focused on making sure that Red Cups get recycled.

Check out their recent videos:

Wasted: A Stop-Motion Animation

Wasted: A Documentary

UM Sustainability Wiki

We are working on creating a wiki database that has all the information about SSI and sustainability at the University of Michigan, including past ideas, projects and partnerships. The wiki will be ready by March 2012.

Water Bottle Educational Campaign

Plastic water bottles are wasteful. We are working on ways to reach out to students and encourage behavior change towards more sustainable choices, including tap water and reusable water bottles.

Zero Waste Football Season

If you haven't heard, Ohio State's football stadium went zero waste last year! Although they are facing challenges (naturally), we applaud their ambitious efforts. We are currently exploring the feasibility of such a project at the University of Michigan.

**A brief description of how the student educators are selected (2nd program) :**

The board members of the Student Sustainability Initiative are selected by an application process. There are typically 6 board members at any time. Anyone can become a member of the general SSI.

**A brief description of the formal training that the student educators receive (2nd program) :**

The University of Michigan Student Sustainability Initiative (SSI) is a collaborative group of leaders in campus organizations, environmental groups, and student governments interested in promoting environmental sustainability and change at the University of Michigan. They are focused on bridging the gap between student groups and the university administration by serving as a focal point for environmental action on campus. To that end, they work closely with SSI member groups as well as collaborate with & receive training and mentoring from the Graham Environmental Sustainability Institute and the Office of Campus Sustainability.

**A brief description of the staff and/or other financial support the institution provides to the program (2nd program) :**

The Graham Environmental Sustainability Institute provides funding for and oversees the Student Sustainability Initiative. This initiative employs five part-time board members who, along with a large collaborative group of students and multiple student organizations, help connect students and promote environmental sustainability.

**The website URL for 2nd program :**

<http://www.umssi.org/>

**Program name (3rd program) :**

[Campus Sustainability Data Collector](#) | [AASHE](#) | [Sierra Magazine](#)

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**Number of students to whom peer-to-peer sustainability outreach and education is offered (3rd program) :**

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**A brief description of the program, including examples of peer-to-peer outreach activities (3rd program) :**

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**A brief description of how the student educators are selected (3rd program) :**

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**A brief description of the formal training that the student educators receive (3rd program) :**

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**A brief description of the staff and/or other financial support the institution provides to the program (3rd program) :**

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**The website URL for 3rd program :**

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**Program name (All other programs) :**

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**Number of students to whom peer-to-peer sustainability outreach and education is offered (All other programs) :**

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**A brief description of the program, including examples of peer-to-peer outreach activities (All other programs) :**

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**A brief description of how the student educators are selected (All other programs) :**

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**A brief description of the formal training that the student educators receive (All other programs) :**

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**A brief description of the staff and/or other financial support the institution provides to the program (All other programs) :**

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**The website URL for all other programs :**

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# Student Sustainability Outreach Campaign

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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## Criteria

Institution holds at least one sustainability-related outreach campaign directed at students. The campaign yields measurable, positive results in advancing sustainability. The sustainability-related outreach campaign may be conducted by the institution, a student organization, or students in a course.

To measure if the campaign yields measurable, positive results, institutions should compare pre-campaign performance to performance during or after the campaign.

The campaign could take the form of a competition (such as a residence hall conservation competition), or a collective challenge (such as a campus-wide drive to achieve a specific sustainability target).

The campaign may focus on one or more sustainability issues, but educating students is a primary feature of the campaign.

The campaign may reach additional campus members (faculty, staff, visitors, etc.) as long as students are one of the audiences of the campaigns.

The following impacts are not sufficient for this credit:

- Increased awareness
  - Additional members of a mailing list or group
- 

*"---" indicates that no data was submitted for this field*

**Does the institution hold a campaign that meets the criteria for this credit? :**

Yes

**The name of the campaign(s) :**

Kill-A-Watt and RecycleMania

**A brief description of the campaign(s) :**

Kill-A-Watt: During fall semester, the students at the University of Michigan compete on behalf of their residence hall to reduce energy use by the greatest percentage compared to the same month in the previous year. The Kill-A-Watt raises awareness about energy, environment, and sustainability. Students are educated with ways to save energy to help their dorm compete.



RecycleMania: RecycleMania is a 10-week competition among colleges and universities across the U.S. to see which school can collect the largest amount of recyclables per capita, the largest amount of total recyclables, the least amount of trash per capita, or have the highest recycling rate over the course of the competition. Results are tracked online for the community to follow.

**A brief description of the measured positive impact(s) of the campaign(s) :**

RecycleMania: Past results are available online at

<http://www.recyclemaniacs.org/scoreboard/past-results>

. The universities progress in recycling and waste management can be viewed in a quantified way from comparing these results through the years. Information for this campaign can be found at

<http://www.recycle.umich.edu/grounds/recycle/recyclemania.php>

. Kill-A-Watt: This is the first year the University of Michigan offers this new program. Thus, we will be collecting baseline data this year and will compare results in upcoming years.

**The website URL where information about the sustainability outreach campaign(s) is available :**

<http://www.killawattum.org/>

# Sustainability in New Student Orientation

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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## Criteria

Institution includes sustainability prominently in its new student orientation activities and programming. Sustainability activities and programming are made available to all new students and are intended to educate about the principles and practices of sustainability.

Because orientation activities vary from one institution to another, prominent inclusion of sustainability may not take the same form on each campus. When reporting for this credit, each institution will determine what prominent inclusion of sustainability means given its particular context.

As this credit is intended to measure sustainability being infused throughout the institution, program or discipline-level orientations are not included in this credit.

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*"---" indicates that no data was submitted for this field*

## **Does the institution include sustainability prominently in new student orientation? :**

Yes

## **A brief description of how sustainability is included prominently in new student orientation :**

There is a sustainability orientation pamphlet that is placed in all student and parent orientation packets about the University of Michigan's sustainability efforts. 3600 parent pamphlets & 7400 student pamphlets were printed for the class entering in 2011. There is no website available with this information. The pamphlet is produced by the Graham Environmental Sustainability Institute.

## **The website URL where information about sustainability in new student orientation is available :**

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# Sustainability Outreach and Publications

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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## Criteria

Institution produces outreach materials and/or publications that foster sustainability learning and knowledge. The publications and outreach materials may include the following:

- A central sustainability website that consolidates information about the institution's sustainability efforts
  - A sustainability newsletter
  - A vehicle to publish and disseminate student research on sustainability
  - Building signage that highlights green building features
  - Food service area signage and/or brochures that include information about sustainable food systems
  - Signage on the grounds about sustainable groundskeeping strategies employed
  - A sustainability walking map or tour
  - A guide for commuters about how to use alternative methods of transportation
  - A guide for green living and incorporating sustainability into the residential experience
  - Regular coverage of sustainability in the main student newspaper, either through a regular column or a reporter assigned to the sustainability beat
  - Other
- 

"---" indicates that no data was submitted for this field

**Does the institution have a central sustainability website that consolidates information about the institution's sustainability efforts? :**

Yes

**A brief description of the central sustainability website that consolidates information about the institution's sustainability efforts :**

The University of Michigan sustainability website is a general resource for sustainability events and information across campus; the Graham Institute website is another general resource for sustainability events, information, research, and efforts on campus.

**The website URL for the central sustainability website that consolidates information about the institution's sustainability efforts :**

<http://sustainability.umich.edu/>

Campus Sustainability Data Collector | AASHE | Sierra Magazine

**Does the institution have a sustainability newsletter? :**

Yes

**A brief description of the sustainability newsletter :**

The Planet Blue monthly E-Newsletter provides information on important sustainability initiatives happening at the University of Michigan.

**The website URL for the sustainability newsletter :**

<http://sustainability.umich.edu/planet-blue-e-newsletter>

**Does the institution have a vehicle to publish and disseminate student research on sustainability? :**

No

**A brief description of the vehicle to publish and disseminate student research on sustainability :**

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**The website URL for the vehicle to publish and disseminate student research on sustainability :**

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**Does the institution have building signage that highlights green building features? :**

Yes

**A brief description of building signage that highlights green building features :**

Buildings have signs in them pointing out various sustainability features - many of these for various buildings can be found at the mentioned website.

**The website URL for building signage that highlights green building features :**

<http://www.aec.bf.umich.edu/desguide/sustainability.html>

**Does the institution have food service area signage and/or brochures that include information about sustainable food systems? :**

Yes

**A brief description of food service area signage and/or brochures that include information about sustainable food systems :**

Here's how you can eat local at Michigan: Look for the Go Blue/Eat Local logo. It means the food is made primarily from locally grown ingredients. Visit East Quad's salad bar. During the growing season all produce comes from local farms. Eat an apple. they come to us

from local farmers while in season. Pick a tomato. The tomatoes we serve during the growing season come from local farms. Enjoy foods produced in Michigan. A list is provided of the local brands we serve.

**The website URL for food service area signage and/or brochures that include information about sustainable food systems :**

<http://housing.umich.edu/system/files/Eat-Green.pdf>

**Does the institution have signage on the grounds about sustainable grounds-keeping strategies employed? :**

Yes

**A brief description of signage on the grounds about sustainable grounds-keeping strategies employed :**

Signs at the natural garden describe it and its plants to passersby - you can see some of these signs in the video link.

**The website URL for signage on the grounds about sustainable grounds-keeping strategies employed :**

[http://snre.umich.edu/highlights/2010-12-08/video\\_native\\_plant\\_garden\\_redesign\\_part\\_1](http://snre.umich.edu/highlights/2010-12-08/video_native_plant_garden_redesign_part_1)

**Does the institution have a sustainability walking map or tour? :**

Yes

**A brief description of the sustainability walking map or tour :**

Interactive map produced by students that shows the location of University of Michigan sustainable sites and programs.

**The website URL of the sustainability walking map or tour :**

<http://sustainability.umich.edu/overview/map>

**Does the institution have a guide for commuters about how to use alternative methods of transportation? :**

Yes

**A brief description of the guide for commuters about how to use alternative methods of transportation :**

University of Michigan Parking & Transportation Services describes many alternative ways to get around campus and the surrounding area, including: walking, rollerblading, vanpooling, carpooling, bicycles, motorcycles, mopeds, zipcars, and buses to name a few.

**The website URL for the guide for commuters about how to use alternative methods of transportation :**

[http://pts.umich.edu/alternative\\_transportation/index.php](http://pts.umich.edu/alternative_transportation/index.php)

**Does the institution have a guide for green living and incorporating sustainability into the residential experience? :**

Yes

**A brief description of the guide for green living and incorporating sustainability into the residential experience :**

How to be a Green Wolverine is a guide for students on behavioral tips and resources for leading a more sustainable life on campus.

**The website URL for the guide for green living and incorporating sustainability into the residential experience :**

<http://sustainability.umich.edu/content/student-sustainability-guide-how-be-green-wolverine>

**Does the institution have regular coverage of sustainability in the main student newspaper (either through a regular column or a reporter assigned to the sustainability beat)? :**

No

**A brief description of regular coverage of sustainability in the main student newspaper, either through a regular column or a reporter assigned to the sustainability beat :**

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**The website URL for regular coverage of sustainability in the main student newspaper, either through a regular column or a reporter assigned to the sustainability beat :**

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**Does the institution produce another sustainability publication or outreach material not covered above? (1st material)**

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Yes

**A brief description of this material :**

The Planet Blue Annual Sustainability Report provides data on campus operations and includes information about operational sustainability efforts.

**The website URL for this material :**

<http://www.ocs.umich.edu/reporting.html>

**Does the institution produce another sustainability publication or outreach material not covered above? (2nd material) :**

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**A brief description of this material :**

The Graham Institute Annual Report outlines significant accomplishments of the Graham Environmental Sustainability Institute from Sept 1 to Aug 31.

**The website URL for this material :**

<http://www.graham.umich.edu/research/publications.php>

**Does the institution produce another sustainability publication or outreach material not covered above? (3rd material) :**

Yes

**A brief description of this material :**

Integrated Assessment Reports come out after an integrated assessment is completed. Recently the report on Campus Sustainability was completed which outlines the results and conclusions of the Campus Sustainability Integrated Assessment.

**The website URL for this material :**

<http://www.graham.umich.edu/ia/campus.php>

**Does the institution produce another sustainability publication or outreach material not covered above? (4th material) :**

Yes

**A brief description of this material :**

Dated back to 2005 are AEC environmental sustainability features fact sheets on construction projects, Planet Blue Operations team's case studies that describe special projects that have been performed, and OCS's series of project fact sheets covering operational sustainability activities on campus.

**The website URL for this material :**

<http://www.ocs.umich.edu/factsheets.shtml>

**Does the institution produce another sustainability publication or outreach material not covered above? (5th material) :**

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**A brief description of this material :**

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**The website URL for this material :**

[Campus Sustainability Data Collector](#) | [AASHE](#) | [Sierra Magazine](#)

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**Does the institution produce another sustainability publication or outreach material not covered above? (6th material) :**

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**A brief description of this material :**

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**The website URL for this material :**

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**Does the institution produce another sustainability publication or outreach material not covered above? (7th material) :**

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**A brief description of this material :**

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**The website URL for this material :**

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**Does the institution produce another sustainability publication or outreach material not covered above? (8th material) :**

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**A brief description of this material :**

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**The website URL for this material :**

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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*"---" indicates that no data was submitted for this field*

### **Does the institution have an active student group focused on sustainability? :**

Yes

### **The name and a brief description of each student group :**

There are over 45 student groups on campus that are focused on sustainability. The Student Sustainability Initiative is another student group that specifically works together with these student organizations to coordinate them. The SSI is a collaborative group of leaders in campus organizations, environmental groups, and student governments interested in making the University of Michigan a more sustainable place. Once a month they gather for Roundtable discussions to catch up on group events, share project ideas, and further discuss sustainability issues. Their website is

<http://www.umich.edu/~umssi/index.html>

### **List up to 4 notable recent activities or accomplishments of student group(s) :**

BLUElab is partnering with the Appropriate Technology Collaborative and Appropriate Infrastructure Development Group to design and implement a human-powered water pump to irrigate farmland and improve quality of life in subsistence farming communities in South American communities. The group will generate design specifications using suitable local materials which will allow the pump to be used in multiple locations, as well as create and implement a business model to foster entrepreneurship in those communities.

The RecycleManiac program is a student volunteer-based program that works with the University's Waste Management Services to encourage students to reduce waste and recycle. This program will give you an opportunity to further your leadership and outreach skills, help the environment, and have fun! Last year, the University of Michigan participated in RecycleMania, a nationwide collegiate recycling competition

The University of Michigan Solar Car Team is the largest student project team on campus, involving over one hundred members from all over the University. Twenty years after its founding, the team has built 11 custom solar-electric vehicles and won 6 National Championships, establishing itself as America's #1 team.

### **List other student groups that address sustainability :**

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**The website URL where information about student group(s) is available :**

<http://studentorgs.umich.edu/maize/tag/Environmental/>

## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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### Submission Note:

Additional web pages:

<http://www.graham.umich.edu/pdf/2011report-adventures.pdf>

<http://sustainability.umich.edu/events/help-plant-vegetables-and-flowers-sph-community-garden>

[www.lsa.umich.edu/mbg/learn/cc/gardens.asp](http://www.lsa.umich.edu/mbg/learn/cc/gardens.asp)

*"---" indicates that no data was submitted for this field*

**Does the institution have an on-campus garden where students are able to gain organic farming and/or gardening experience? :**

Yes

**A brief description of the garden :**

The University of Michigan has an Outdoor Adventures garden, plus a garden at the School of Public Health, one at the Matthei Botanical Gardens, as well as one at the Ginsberg Center.

**The website URL where information about the garden is available :**

<http://www.lsa.umich.edu/mbg/learn/cc/>

## Model Room in a Residence Hall

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**Responsible Party**

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.

## Themed Housing

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**Responsible Party**

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.

## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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*"---" indicates that no data was submitted for this field*

### **Does the institution have a student-run enterprise, such as a cafe, through which students gain sustainable business skills? :**

No

### **A brief description of the enterprise :**

The University of Michigan does not have a program as described for this credit. However, we do offer The Center for Entrepreneurship which partners with Ann Arbor's SPARK to encourage students to start entrepreneurial companies. The Provost-funded Center for Entrepreneurship offers "Jump Start Grants" to provide financial support to help students achieve their entrepreneurial ambitions and develop their entrepreneurial skills and ideas. SPARK offers a two-day intensive boot camp for aspiring entrepreneurs. Participants in the boot camp learn tools to identify markets, refine business strategy, locate consumers, and improve business concepts.

SPARK also hosts the Michigan Clean Energy Venture Challenge, challenging students to go from an idea to venture launch, presenting their idea and putting it into practice. They host many other entrepreneurial competitions through the year as well, and offer space in the "TechArb" student incubator space in downtown Ann Arbor for student companies to work in, learn from, and network with each other and their mentors - including weekly meetings with companies, providing guidance, suggestions, and assistance for getting to the next steps in their businesses.

### **The website URL where information about the sustainable enterprise is available :**

<http://cfe.umich.edu/>

# Sustainability Events

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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*"---" indicates that no data was submitted for this field*

**Does the institution hold major events related to sustainability, such as conferences, speaker series, or symposia, that have students as the intended audience? :**

Yes

**A brief description of the event(s) :**

EarthFest showcases sustainability efforts taking place at the University of Michigan and surrounding communities. The two-day event takes place early in the fall semester (one day on central campus & one day on north campus). It is designed to be an interactive and fun event.

While Earthfest is our major event, there are many related speakers, meetings & symposia each year related to sustainability for students. Some of these include the SNRE Dean's Speaker Series, the ERB Colloquium, the ERB Speaker Series, the Global Sustainability China Conference, and the Environmental Law and Policy Speaker Series.

**The website URL where information about the event(s) are available :**

<http://sustainability.umich.edu/events/2011-earthfest-party-planet>

# Outdoors Program

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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*"---" indicates that no data was submitted for this field*

**Does the institution have a wilderness or outdoors program that organizes hiking, backpacking, kayaking, or other outings for students and follows Leave No Trace principles? :**

Yes

**A brief description of the program :**

Outdoor Adventures offers a variety of services to students including outdoor gear rental, wilderness training classes, a rock climbing wall, and wilderness trips led by Outdoor Adventures trained leaders. All clinics teach Leave No Trace principles (including workshops to become a trip leader).

**The website URL where information about the program is available :**

<http://www.recports.umich.edu/outdooradv/>



## Themed Semester or Year

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### Responsible Party

Donald Scavia

Director

Graham Environmental Sustainability Institute

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*"---" indicates that no data was submitted for this field*

**Has the institution chosen a sustainability-related theme for its themed semester, year, or first-year experience during the past three years? :**

Yes

**A brief description of the themed semester, year, or first-year experience :**

Winter 2011's theme for the semester through the College of Literature Sciences & the Arts was "Water." Students engaged in water literacy activities as they developed an awareness of the growing worldwide water crisis and developed local solutions and actions.

**The sustainability-related book that was chosen, if applicable :**

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**The website URL where information about the theme is available :**

<http://www.lsa.umich.edu/umich/v/index.jsp?vgnextoid=678d5ef70f79a110VgnVCM100000a3b1d38dRCRD&linkTypeBegin=channellinkTypeEnd&assetNameBegin=Past%20Theme%20SemestersassetNameEnd>

# Curriculum

This subcategory seeks to recognize institutions that have formal education programs and courses that address sustainability. One of the primary functions of colleges and universities is to educate students. By training and educating future leaders, scholars, workers, and professionals, higher education institutions are uniquely positioned to prepare students to understand and address sustainability challenges. Institutions that offer courses covering sustainability issues help equip their students to lead society to a sustainable future.

<b>Credit</b>
Sustainability Course Identification
Sustainability-Focused Courses
Sustainability-Related Courses
Sustainability Courses by Department
Sustainability Learning Outcomes
Undergraduate Program in Sustainability
Graduate Program in Sustainability
Sustainability Immersive Experience
Sustainability Literacy Assessment
Incentives for Developing Sustainability Courses

# Sustainability Course Identification

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## Responsible Party

Donald Scavia

Director

Graham Environmental Sustainability Institute

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## Criteria

### Part 1

Institution has developed a definition of sustainability in the curriculum. The definition was developed by a committee comprised of at least three faculty members who teach courses in different departments. The committee may include students, staff, and other stakeholders as well. The definition does not have to be formally adopted.

In order to report on other STARS Curriculum credits, the definition of sustainability in the curriculum should distinguish between courses that focus or concentrate on the concept of sustainability throughout the course and courses that relate to an aspect of sustainability or include sustainability as part of the course.

- Sustainability-focused courses concentrate on the concept of sustainability, including its social, economic, and environmental dimensions, or examine an issue or topic using sustainability as a lens.
- Sustainability-related courses incorporate sustainability as a distinct course component or module or concentrate on a single sustainability principle or issue.

### Part 2

Institution has identified its sustainability-focused and sustainability-related course offerings. A course is either sustainability-focused or sustainability-related; no course should be identified as both sustainability-focused and sustainability-related. Each institution is free to choose a methodology to identify sustainability courses that is most appropriate given its unique circumstances. Asking faculty or departments to self-identify sustainability courses using the definition in Part 1 or looking at the stated learning outcomes and course objectives associated with each course may provide a richer view of sustainability course offerings than simply reviewing course descriptions, but it is not required.

### Part 3

Institution makes its sustainability course inventory publicly available online. The identification can be incorporated into the course catalog or posted as a stand-alone document.

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"---" indicates that no data was submitted for this field

**Has the institution developed a definition of sustainability in the curriculum? :**

Yes

**A copy of the institution's definition of sustainability in the curriculum? :**

Sustainability is an emerging field of problem-driven, interdisciplinary scholarship and practice that seeks to protect the environment and enhance quality of life for present and future generations. The field is defined by the problems it addresses rather than the disciplines it employs. It draws from multiple disciplines of the natural, social, medical and engineering sciences, from the professions and humanities, and from practical field experience in business, government, and civil society.

**Has the institution identified its sustainability-focused and sustainability-related course offerings? :**

Yes

**A brief description of the methodology the institution followed to complete the inventory :**

The University of Michigan's definition of Sustainability in the curriculum and research was adapted from the Sustainability Science definition developed by the Proceedings of the National Academy of Sciences. The U-M definition was developed by the Executive Committee (EC) of U-M's Graham Environmental Sustainability Institute. This group consists of nine sustainability-focused professors representing our School of Natural Resources & Environment, College of Literature, Science, & the Arts, Ross School of Business, Office of Vice President for Research, School of Public Health, Taubman College of Architecture & Urban Planning, College of Engineering, Ford School of Public Policy, School of Social Work, and Michigan Law School.

Courses were identified as being sustainability focused or related through a complete inventory of classes offered. The inventory is available to the public through an online database and is updated each semester.

**Does the institution make its sustainability course inventory publicly available online? :**

Yes

**The website URL where the sustainability course inventory is posted :**

<http://www.graham.umich.edu/education/findcourse.php>

# Sustainability-Focused Courses

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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## Criteria

Institution offers sustainability-focused academic courses.

This credit does not include continuing education and extension courses, which are covered by *PAE Credit 21: Sustainability in Continuing Education*.

---

"---" indicates that no data was submitted for this field

## The number of sustainability-focused courses offered :

86

## The total number of courses offered :

7288

## Number of years covered by the data :

Three

## A list of sustainability-focused courses offered :

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## The website URL where the publicly available sustainability course inventory that includes a list of sustainability-focused courses is available :

<http://www.graham.umich.edu/education/findcourse.php>

## A copy of the sustainability course inventory :

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# Sustainability-Related Courses

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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## Criteria

Institution offers sustainability-related academic courses.

This credit does not include continuing education and extension courses, which are covered by *PAE Credit 21: Sustainability in Continuing Education*.

---

"---" indicates that no data was submitted for this field

## The number of sustainability-related courses offered :

425

## The total number of courses offered :

7288

## Number of years covered by the data :

Three

## A list of sustainability-related courses offered :

---

## The website URL where the sustainability course inventory that includes a list of sustainability-related courses is posted :

<http://www.graham.umich.edu/education/findcourse.php>

## A copy of the sustainability course inventory :

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# Sustainability Courses by Department

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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## Criteria

Institution's academic departments (or equivalent) offer sustainability-related and/or sustainability- focused courses.

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*"---" indicates that no data was submitted for this field*

**The number of departments that offer at least one sustainability-related or -focused course :**

54

**The total number of departments that offer courses :**

100

**A list of departments that offer sustainability courses :**

---

**The website URL where the publicly available sustainability course inventory that includes a list of departments that offer sustainability courses is available :**

<http://www.graham.umich.edu/education/findcourse.php>

**A copy of the sustainability course inventory :**

[Programs w at least one course related\\_1.xlsx](#)

# Sustainability Learning Outcomes

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## Responsible Party

Donald Scavia

Director

Graham Environmental Sustainability Institute

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## Criteria

Institution's students graduate from programs that include sustainability as a required learning outcome or include multiple sustainability learning outcomes.

For this credit, learning outcomes at the course level count if the course is required to earn the degree. This credit includes graduate as well as undergraduate programs. For this credit, "programs" include majors, minors, concentrations, certificates, and other academic designations. Programs that include co-curricular aspects may count as long as there is an academic component of the program.

---

*"---" indicates that no data was submitted for this field*

## The number of graduates covered by the sustainability learning outcomes :

14673

## Total number of graduates :

14673

## A list of degree programs that have sustainability learning outcomes :

While all students are covered by a sustainability related learning outcome, students in the following programs are required to take at least one sustainability focused or related course as part of their program: Aquatic Sciences Masters; Architecture Masters; Architecture BS; Behavior, Education & Communication Masters; Biochemical Engineering BS; Biology BS; Biomedical Engineering Major; Chemical Engineering Major; Civil Engineering Major; Climate Physics Major; Community Organization/Health MSW; Conservation Biology Masters; Dental Public Health MPH; Earth Sciences Minor; Earth Space Science (sec ed) BA/BS; Earth Space Science (secondary ed) Minor; Earth System Science & Engineering Major; Ecology & Evolutionary Biology Minor; Economics (secondary ed) BA/BS; Economics (sec ed) Minor; Engineering BS; Environment Minor; Environmental Geology Minor; Environmental Health Science MPH; Environmental Health Sciences MPH; Environmental Informatics Masters; Environmental Justice Masters; Environmental Studies (secondary ed) BA/BS; Environmental Policy & Planning Masters; Environmental Studies (secondary ed) Minor; General Epidemiology MPH; Geochemistry Minor; Human Nutrition MPH; Integrated Science (elementary ed) BA/BS; Integrated Science (elementary ed) Minor; Interpersonal Practice/Health MSW; Management of Human Services/Health MSW; Mechanical Engineering Major; Meteorology Major; Movement Sciences BS; Naval Architecture & Marine Engineering Major; Nuclear Engineering & Radiological Sciences Major; Oceanography Minor; Paleontology Minor; Peace & Social Justice Minor; Physics Minor; Social Policy & Evaluation/Health MSW; Social Studies (elementary ed) BA/BS; Social Studies (elementary ed) Minor; Social Studies (sec ed) BA/BS; Sociology (secondary ed) Minor; Space Weather Major; Sports Management BA; Sustainable Systems Masters; Terrestrial Ecosystems masters; Urban & Community Studies Minor; Urban Design MUD



**The website URL where the publicly available sustainability course inventory that includes a list of degree programs that have specified sustainability learning outcomes is available :**

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**A copy of the sustainability course inventory :**

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**A list or sample of the sustainability learning outcomes associated with the degree programs :**

When working on the accreditation process for the University, University leadership developed learning outcomes for our student body as part of their "Student Learning and Effective Teaching" section of the Higher Learning Commission's accreditation evaluation. Our intended learning outcomes are as follows:

As a result of their studies and experiences at the University of Michigan, by the time of graduation students will be able to demonstrate:

General knowledge of diverse philosophies and human cultures, the arts and humanities, and the physical and natural world.

Mastery of a specific body of knowledge and mode of inquiry.

Engagement in the generation of new knowledge in a specific field of inquiry.

Effective oral and written communication, teamwork, and problem-solving skills.

Capacity to work effectively across diverse philosophies, cultures, and challenges in a global society.

Skills for effective citizenship and leadership, and for assuming personal and social responsibilities in a diverse and global society.

Ability to set personal learning goals, to critically self-monitor learning styles, and to make adjustments based on progress and achievement.

Commitment to pursue lifelong learning and critical inquiry through postgraduate studies and participation in informal educational settings.

Ability to address issues of societal concern and human needs through civic engagement.

The University of Michigan will facilitate student efforts to achieve these outcomes by encouraging the development of courses and other educational experiences that promote student progress in these domains, and by developing and supporting assessment methods that assist faculty and students in measuring progress toward these outcomes.

# Undergraduate Program in Sustainability

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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## Criteria

Institution offers at least one sustainability-focused undergraduate major, degree program, or equivalent.

The degree program does not have to include sustainability in its name to count for this credit. Environmental Studies programs, for example, count as long as the program covers the social, economic, and environmental dimensions of sustainability. A program that focuses exclusively on environmental or social issues, however, would not be sufficient to earn this credit.

Concentrations within a major (e.g. a concentration on sustainable business within the business major) do not count for this credit.

---

*"---" indicates that no data was submitted for this field*

## Does the institution offer an undergraduate degree program that meets the criteria for this credit? :

Yes

## The name of the sustainability-focused, undergraduate degree program (1st program) :

Program in the Environment in the College of Languages, Arts & Sciences

## The website URL for the program (1st program) :

<http://www.lsa.umich.edu/pite/>

## The name of the sustainability-focused, undergraduate degree program (2nd program) :

Environmental & Water Resources Engineering Program through the Department of Civil & Environmental Engineering

## The website URL for the program (2nd program) :

<http://cee.engin.umich.edu/node/8>

## The name of the sustainability-focused, undergraduate degree program (3rd program) :

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## The website URL for the program (3rd program) :

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## The name and website URLs of all other sustainability-focused, undergraduate degree program(s) :

[Campus Sustainability Data Collector](#) | [AASHE](#) | [Sierra Magazine](#)

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# Graduate Program in Sustainability

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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## Criteria

Institution offers at least one sustainability-focused degree program or equivalent for graduate students.

The degree program does not have to include sustainability in its name to count for this credit. Environmental Studies programs, for example, count for this credit as long as the program covers the social, economic, and environmental dimensions of sustainability. A program that focuses exclusively on environmental or social issues, however, would not be sufficient to earn this credit.

Concentrations within a degree program (e.g. a concentration on sustainable business within an MBA program) do not count for this credit.

---

*"---" indicates that no data was submitted for this field*

## Does the institution offer a graduate degree program that meets the criteria for this credit? :

Yes

## The name of the sustainability-focused, graduate-level degree program (1st program) :

School of Natural Resources offers: Behavior, Education & Communication, Conservation Ecology, Environmental Informatics: GIS & Modeling, Environmental Justice, Environmental Policy & Planning, Sustainable Systems

## The website URL for the program (1st program) :

[http://www.snre.umich.edu/degree\\_programs/masters](http://www.snre.umich.edu/degree_programs/masters)

## The name of the sustainability-focused, graduate-level degree program (2nd program) :

The College of Engineering offers: Civil & Environmental Engineering, Atmospheric, Oceanic & Space Sciences.

## The website URL for the program (2nd program) :

<http://www.engin.umich.edu/academics/gradprograms/degrees/index.html>

## The name of the sustainability-focused, graduate-level degree program (3rd program) :

Rackham also offers: Earth & Environmental Sciences, Environmental Health Sciences, Environmental Justice.

## The website URL for the program (3rd program) :

<http://www.rackham.umich.edu/academics/>

**The name and website URLs of all other sustainability-focused, graduate-level degree program(s) :**

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# Sustainability Immersive Experience

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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## Criteria

Institution offers at least one immersive, sustainability-focused educational study program. The program(s) may take place off-campus, overseas, or on-campus.

For this credit, the program meets one or both of the following criteria:

- it concentrates on sustainability, including its social, economic, and environmental dimensions or
- it examines an issue or topic using sustainability as a lens.

Immersive programs offered in partnership with outside entities may count for this credit. Programs offered exclusively by outside entities do not count for this credit.

---

*"---" indicates that no data was submitted for this field*

## Does the institution offer a program that meets the criteria for this credit? :

Yes

## A brief description of the sustainability-focused immersive experience(s) offered by the institution :

University of Michigan students apply and are admitted to the Undergraduate Sustainability Scholars Program during the second semester of their sophomore year. The students are required to take 11 credits of pre-approved, sustainability-focused classes, one of which must be a field-based course located off the U-M campus.

## The website URL where information about the immersive experience is available :

<http://www.graham.umich.edu/education/undergrad-scholars.php>

# Sustainability Literacy Assessment

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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## Criteria

### *Part 1*

Institution conducts an assessment of the sustainability literacy of its students. The sustainability literacy assessment focuses on knowledge of sustainability topics, not values or beliefs.

### *Part 2*

Institution conducts a follow-up assessment of the same cohort group using the same instrument.

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This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.

# Incentives for Developing Sustainability Courses

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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## Criteria

Institution has an ongoing program or programs that offer incentives for faculty in multiple disciplines or departments to develop new sustainability courses and/or incorporate sustainability into existing courses or departments. The program aims to increase student learning of sustainability.

Incentives may include release time, funding for professional development, and trainings offered by the institution.

Incentives for expanding sustainability offerings in academic, non-credit, and/or continuing education courses count for this credit.

---

*"---" indicates that no data was submitted for this field*

## Does the institution have a program that meets the criteria outlined above? :

Yes

## A brief description of the program(s) :

The Graham Environmental Sustainability Institute at the University of Michigan asks faculty to develop new courses, or enhance existing courses so they are appropriate and available for the students in their Graham Scholars program. The Graham Scholars program requires and funds participation in an off-site field-based course that investigates a sustainability issue in depth, preferably with an international context.

## A brief description of the incentives that faculty members who participate in the program(s) receive :

Instructors whose course proposals are accepted may receive:

Resources and support for course development and teaching

Resources to travel to/from a field site, including accommodations, meals, etc.

The opportunity to mentor highly motivated students

The opportunity to advance research interests with a team of undergraduate and possibly graduate students

## The website URL where information about the program is available :

<http://www.graham.umich.edu/pdf/scholars-course-rfp.pdf>





# Research

This subcategory seeks to recognize institutions that are conducting research related to or focused on sustainability. Conducting research is a major function of many colleges and universities. By researching sustainability issues and refining theories and concepts, higher education institutions can continue to help the world understand sustainability challenges and develop new technologies, strategies, and approaches to address those challenges.

<b>Credit</b>
Sustainability Research Identification
Faculty Engaged in Sustainability Research
Departments Engaged in Sustainability Research
Sustainability Research Incentives
Interdisciplinary Research in Tenure and Promotion

# Sustainability Research Identification

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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## Criteria

### Part 1

Institution has developed a definition of sustainability research. The definition was developed by a committee comprised of at least three faculty members from different departments who conduct research. The committee may include students, staff, and other stakeholders as well. The definition does not have to be formally adopted.

### Part 2

Institution has identified its sustainability research activities and initiatives. This research inventory should include all research centers, laboratories, departments, and faculty members whose research focuses on or is related to sustainability.

### Part 3

Institution makes its sustainability research inventory publicly available online.

---

*"---" indicates that no data was submitted for this field*

## Has the institution developed a definition of sustainability research? :

Yes

## A copy of the institution's definition of sustainability research :

From an academic perspective, sustainability is an emerging field of problem-driven, interdisciplinary scholarship and practice that seeks to protect the environment and enhance quality of life for present and future generations. The field is defined by the problems it addresses rather than the disciplines it employs. It draws from multiple disciplines of the natural, social, medical and engineering sciences, from the professions and humanities, and from practical field experience in business, government, and civil society.

## Has the institution identified its sustainability research activities and initiatives? :

Yes

## A brief description of the methodology the institution followed to complete the inventory :

The University of Michigan's definition of Sustainability in the curriculum and research was adapted from the Sustainability Science definition developed by the Proceedings of the National Academy of Sciences. The University of Michigan's definition was developed by the Executive Committee (EC) of the University of Michigan's Graham Environmental Sustainability Institute. This group consists of nine sustainability-focused professors representing our School of Natural Resources & Environment, College of Literature, Science, & the Arts, Ross School of Business, Office of Vice President for Research, School of Public Health, Taubman College of Architecture & [Campus Sustainability Data Collector](#) | [AASHE](#) | [Sierra Magazine](#)

Urban Planning, College of Engineering, Ford School of Public Policy, School of Social Work, and Michigan Law School.

**Does the institution make its sustainability research inventory publicly available online? :**

Yes

**The website URL where the sustainability research inventory is posted (required if claiming Part 3 of the credit) :**

<http://www.graham.umich.edu/research/findresearcher.php>

# Faculty Engaged in Sustainability Research

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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## Criteria

Institution's faculty members conduct research on sustainability topics.

Any level of sustainability research by a faculty member is sufficient to be included for this credit. In other words, a faculty member who conducts both sustainability research and other research may be included.

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*"---" indicates that no data was submitted for this field*

### **The number of faculty members engaged in sustainability research :**

625

### **The total number of faculty members engaged in research :**

5606

### **Names and department affiliations of faculty engaged in sustainability research :**

---

### **The website URL where the sustainability research inventory that includes the names and department affiliations of faculty engaged in sustainability research is posted :**

<http://www.graham.umich.edu/research/findresearcher.php>

### **A copy of the sustainability research inventory that includes the names and department affiliations of faculty engaged in sustainability research :**

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### **Brief descriptions of up to 4 recent notable accomplishments by faculty engaged in sustainability research, including names and department affiliations :**

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### **The website URL where information about sustainability research is available :**

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# Departments Engaged in Sustainability Research

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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## Criteria

Institution's academic departments include faculty members who conduct sustainability research.

Any level of sustainability research by a faculty member in a department is sufficient for this credit.

---

*"---" indicates that no data was submitted for this field*

### **The total number of academic departments that conduct research :**

100

### **The number of academic departments in which at least one faculty member engages in sustainability research :**

71

### **A list of academic departments in which at least one faculty member engages in sustainability research :**

---

### **The website URL where the sustainability research inventory that includes the departments engaged in sustainability research is posted :**

<http://www.graham.umich.edu/research/findresearcher.php>

### **A copy of the sustainability research inventory that includes the departments engaged in sustainability research :**

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# Sustainability Research Incentives

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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## Criteria

### Part 1

Institution has an ongoing program to encourage students in multiple disciplines or academic programs to conduct research in sustainability. The program provides students with incentives to research sustainability. Such incentives may include, but are not limited to, fellowships, financial support, and mentorships.

### Part 2

Institution has an ongoing program to encourage faculty from multiple disciplines or academic programs to conduct research in sustainability topics. The program provides faculty with incentives to research sustainability. Such incentives may include, but are not limited to, fellowships, financial support, and faculty development workshops.

---

*"---" indicates that no data was submitted for this field*

## **Does the institution have a program to encourage student sustainability research that meets the criteria for this credit? :**

Yes

## **A brief description of the institution's program(s) to encourage student research in sustainability :**

The overarching goal of the Graham Doctoral Fellowship Program is to create a cohort of doctoral students who will ultimately engage in leadership roles within academia, industry, non-profit organizations, and government. To this end, the Graham Fellowship provides recipients with two-fold support: financial and intellectual.

Each year, the Graham Institute competitively selects and admits six doctoral students into the Graham Doctoral Fellowship Program. As a recipient of this honor, each Graham Fellow receives up to \$25,000 per year for two years to help support their doctoral-level research and studies. Applicants are reviewed by a strict set of criteria and considered only if their doctoral research projects are related to environmental sustainability and if they demonstrate significant leadership potential.

On a broader scale, the Graham Doctoral Fellowship Program helps to create a "Community of Scholars," by which the Graham Fellows can collaborate, engage, and interact—both during their doctoral studies, as well as for years to come. During the fellows' period on campus, academic associations and multidisciplinary projects are cultivated through monthly seminars, annual retreats, workshops, and other Graham-sponsored forums.

## **The website URL where information about the student research program is available :**

<http://www.graham.umich.edu/education/fellows.php>

Campus Sustainability Data Collector | AASHE | Sierra Magazine

**Does the institution have a program to encourage faculty sustainability research that meets the criteria for this credit? :**

Yes

**A brief description of the institution's program(s) to encourage faculty research in sustainability :**

Some research is conducted solely for gaining knowledge or understanding, while other research is conducted with a specific use in mind. The Graham Sustainability Institute is helping faculty researchers at the University of Michigan to pursue a combination of these two approaches through Integrated Assessment (IA).

Integrated Assessment begins with a structured dialog among scientists and policy makers to establish a key policy question around which the assessment is to be developed. Researchers applying this methodology then gather and assess both natural and social science information to help policy makers answer that question.

In partnership with researchers and key stakeholders, we have made available at least \$2.5 million to initiate and support multiple IA projects on local to global scales. To that end, we solicit wicked sustainability problems that are ripe for addressing through Integrated Assessment.

**The website URL where information about the faculty research program is available :**

<http://www.graham.umich.edu/ia/>



# Interdisciplinary Research in Tenure and Promotion

---

## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

---

## Criteria

Institution gives positive recognition to interdisciplinary, transdisciplinary, and multidisciplinary research during faculty promotion and tenure decisions.

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*"---" indicates that no data was submitted for this field*

## Does the institution's treatment of interdisciplinary research meet the criteria for this credit? :

Yes

## A brief description or a copy of the institution's policy regarding interdisciplinary research :

The University of Michigan Provost's instructions to Schools and Colleges for putting together tenure and promotion casebooks make several references to the value and importance of interdisciplinary work. For example:

- The instructions on the cover letter from the Dean/Director include: "It is important that non-traditional forms of scholarly production are given as much scrutiny as the more traditional/disciplinary work. It is important to ensure that individuals receive full credit for their contributions to interdisciplinary and/or collaborative scholarly projects."
- The instructions on documentation of research or creative work include: "For faculty with interdisciplinary appointments, please comment on his/her contributions to interdisciplinary activities with regard to research."
- The template letter to be used to solicit external review includes this paragraph to use when appropriate: "Dr. X is engaged in research that is interdisciplinary in nature. [He/she holds a joint appointment in the department of Y and Z.] We invite your consideration of the interdisciplinary nature of X's work in your review of his/her scholarly contributions."

## The website URL where information about the treatment of interdisciplinary research is available :

---

# Operations

## Buildings

This subcategory seeks to recognize institutions that are taking steps to improve the sustainability performance of their buildings. Buildings are generally the largest user of energy and the largest source of greenhouse gas emissions on campuses. Buildings also use significant amounts of potable water. Institutions can design, build, and maintain buildings in ways that provide a safe and healthy indoor environment for inhabitants while simultaneously mitigating the building's impact on the outdoor environment.

<b>Credit</b>
Building Operations and Maintenance
Building Design and Construction
Indoor Air Quality

# Building Operations and Maintenance

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## Responsible Party

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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## Criteria

Institution owns and operates buildings that are:

1) Certified under the LEED® for Existing Buildings: Operations & Maintenance (O&M) Green Building Rating System,

and/or

2) Operated and maintained in accordance with sustainable operations and maintenance guidelines and policies that cover the following:

- Impacts on the surrounding site
  - Energy consumption
  - Usage of environmentally preferable materials
  - Indoor environmental quality
  - Water consumption
- 

## Submission Note:

For more information please see

<http://www.plantops.umich.edu/grounds/building/os1/>

"---" indicates that no data was submitted for this field

## Total building space that meets "Eligible Buildings Criteria" :

33771520 Square Feet

## Building space that is maintained in accordance with sustainable building operations and maintenance guidelines or policies but is NOT certified under LEED for Existing Buildings: O&M :

13786126 Square Feet

## Building space that is LEED for Existing Buildings: O&M Certified :

0 Square Feet

## Building space that is LEED for Existing Buildings: O&M Silver certified :

0 Square Feet

**Building space that is LEED for Existing Buildings: O&M Gold certified :**

*0 Square Feet*

**Building space that is LEED for Existing Buildings: O&M Platinum certified :**

*0 Square Feet*

**The website URL where a copy of the institution's guidelines or policies for sustainable building operations and maintenance is available :**

<http://www.plantops.umich.edu/>

**An electronic copy of the guidelines or policies :**

---

**The date(s) the policies or guidelines were adopted :**

OS1 plan is being phased in from May 2009 through May 2013. Planet Blue Operations Teams began in Fall 2008 and will complete 120 buildings by summer of 2012.

**A brief description of how the institution ensures compliance with sustainable building operation and maintenance guidelines and policies :**

Planet Blue Operations teams engage building occupants through a series of events and on-line tools to educate them on program operation and maintenance of the buildings. The OS-1 teams go through extensive training for team members, work with occupants to ensure success, and routinely audit the work.

**The names and certification levels of all buildings that are certified under LEED for Existing Buildings: O&M :**

---

**The names of all buildings operated and maintained in accordance with similar sustainable operations and maintenance guidelines and policies :**

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# Building Design and Construction

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## Responsible Party

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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## Criteria

Institution-owned buildings that were constructed or underwent major renovations in the past three years are:

1) Certified under the LEED® for New Construction and Major Renovations, LEED for Commercial Interiors, and/or LEED for Core and Shell Green Building Rating Systems,

and/or

2) Designed and built in accordance with green building guidelines and policies that cover the following topics:

- Impacts on the surrounding site
  - Energy consumption
  - Usage of environmentally preferable materials
  - Indoor environmental quality
  - Water consumption
- 

"---" indicates that no data was submitted for this field

## **New building space that meets "Eligible Buildings Criteria" :**

1885800 *Square Feet*

## **New building space that was designed and constructed in accordance with green building policies or guidelines but not LEED certified :**

1615800 *Square Feet*

## **New building space that is LEED Certified :**

0 *Square Feet*

## **New building space that is LEED Silver certified :**

270000 *Square Feet*

## **New building space that is LEED Gold certified :**

0 *Square Feet*

**New building space that is LEED Platinum certified :**

0 Square Feet

**The website URL where a copy of the institution's guidelines or policies for green building is available :**

<http://www.aec.bf.umich.edu/desguide/sustainability.html>

**An electronic copy of the guidelines or policies :**

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**The date(s) the policies or guidelines were adopted :**

SID-D Original January 2004 (Latest version June 2011) SID-K Original September 2004 (Latest version June 2011) (SIDs are updated on continuous basis, multiple updates have occurred since origination.)

**A brief description of how the institution ensures compliance with green building design and construction guidelines and policies :**

LEED Silver Certification and ASRAE 90.1-2007 + 30% policy on all new construction over \$10million adopted Feb 2010. U-M Architecture, Engineering and Construction (AEC) department has developed Design Guidelines to incorporate sustainable features in all construction projects at the University of Michigan whether or not the projects undergo LEED certification. Two of these guidelines deserve special attention: SID-D Energy and Water Conservation and SID-K Sustainable Design and LEED Requirements. Other guidelines cover requirements for site sustainability, and use of environmentally preferable materials. These Design Guidelines provide direction to design professionals. Guidelines contain requirements of written documentation and checklists verifying adherence to the guideline throughout design and construction of a project. Also, AEC assigns Design Managers to each project who monitor compliance with the Guidelines, along with other duties.

**The names of all buildings that are certified under the LEED for New Construction and Major Renovations, LEED for Commercial Interiors, and/or LEED for Core and Shell Green Building Rating Systems :**

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**The names of all buildings designed and constructed in accordance with green building guidelines and policies but not LEED certified :**

---

## Responsible Party

**Terrance Alexander**  
Executive Director  
Office of Campus Sustainability

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## Criteria

Institution has adopted an indoor air quality management policy, plan, and/or practices that include regular auditing or monitoring and a mechanism for occupants to register complaints. Policies and plans adopted by entities of which the institution is part (e.g. state government or the university system) may count for this credit as long as the policies apply to and are followed by the institution.

---

---" indicates that no data was submitted for this field

## Occupied building space covered by an indoor air quality plan, policy, and/or practices that include regular auditing or monitoring and a mechanism for occupants to register complaints :

23478369 Square Feet

## Total occupied building space :

33366447 Square Feet

## A brief description of the institution's indoor air quality plan, policy, and/or practices :

The University's Facilities Maintenance group monitors the amount of fresh air that comes into buildings, as well as the level of cleanliness of air filters. In some cases, like auditoriums, CO2 levels are monitored as well. Fan systems are designed to incorporate fresh air. Concerns and complaints are directed to U-M's Occupational Safety & Environmental Health (OSEH) department. Air quality testing occurs in response to complaints. Building Automated Services monitors additional buildings for Housing and Athletics. Athletics monitors 10 buildings, the North Campus Research Complex is monitored by the NCRC Powerhouse operations crew. The U-M Health System independently monitors their buildings.

## The website URL where information about the institution's indoor air quality initiatives is available :

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# Climate

This subcategory seeks to recognize institutions that are measuring and reducing their greenhouse gas emissions. Global warming is expected to have myriad negative impacts throughout the world, including increased frequency and potency of extreme weather events, sea level rise, species extinction, water shortages, declining agricultural production, and spread of diseases. The impacts are expected to be particularly pronounced for poor communities and countries.

<b>Credit</b>
Greenhouse Gas Emissions Inventory
Greenhouse Gas Emissions Reduction
Air Travel Emissions
Local Offsets Program



# Greenhouse Gas Emissions Inventory

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## Responsible Party

**Terrance Alexander**  
Executive Director  
Office of Campus Sustainability

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## Criteria

### Part 1

Institution has conducted a GHG emissions inventory covering its Scope 1 and Scope 2 emissions. The GHG emissions inventory is publicly available, either through the American College & University Presidents' Climate Commitment reporting site, the institution's website, or another public website.

### Part 2

Institution has conducted a GHG emissions inventory covering Scope 3 emissions. The GHG emissions inventory is publicly available, either through the American College & University Presidents' Climate Commitment reporting site, the institution's website, or another public website.

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*"---" indicates that no data was submitted for this field*

### **The website URL where the GHG emissions inventory is posted :**

<http://www.ocs.umich.edu/11AERrawdata.shtml>

### **Does the inventory include all Scope 1 and 2 emissions? :**

Yes

### **Does the inventory include emissions from air travel? :**

No

### **Does the inventory include emissions from commuting? :**

No

### **Does the inventory include embodied emissions from food purchases? :**

No

### **Does the inventory include embodied emissions from other purchased products? :**

No

**Does the inventory include emissions from solid waste disposal? :**

No

**Does the inventory include another Scope 3 emissions source not covered above? :**

No

**If yes, please specify :**

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**Does the inventory include a second Scope 3 emissions source not covered above? :**

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**If yes, please specify :**

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**Does the inventory include a third Scope 3 emissions source not covered above? :**

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**If yes, please specify :**

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**Does the inventory include a fourth Scope 3 emissions source not covered above? :**

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**If yes, please specify :**

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# Greenhouse Gas Emissions Reduction

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## Responsible Party

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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## Criteria

Institution reduced its net Scope 1 and Scope 2 GHG emissions per weighted campus user compared to a 2005 baseline.

For this credit, off-site, institution-catalyzed carbon offsets (i.e. those popularly known as “local offsets”) count in full. Purchased carbon offsets that have been verified by a third party may count towards a portion of the reduction. Purchased offsets that have not been third-party verified do not count.

To conduct a GHG emissions inventory, campuses may use any methodology and/or calculator that is consistent with the Greenhouse Gas Protocol's Corporate Accounting and Reporting Standards.

The baseline GHG emissions inventory should include the same emissions sources as the performance year emissions inventory.

---

"---" indicates that no data was submitted for this field

## Scope 1 and 2 gross GHG emissions, 2005 :

545518 Metric Tons of CO2 Equivalent

## Off-site, institution-catalyzed carbon offsets generated, 2005 :

0 Metric Tons of CO2 Equivalent

## Third-party verified carbon offsets purchased, 2005 :

340 Metric Tons of CO2 Equivalent

## On-campus residents, 2005 :

13947

## Non-residential/commuter full-time students, faculty, and staff members, 2005 :

58062

## Non-residential/commuter part-time students, faculty, and staff members, 2005 :

1838

## Scope 1 and 2 gross GHG emissions, performance year :

671605 *Metric Tons of CO2 Equivalent*

**Off-site, institution-catalyzed offsets generated, performance year :**

0 *Metric Tons of CO2 Equivalent*

**Carbon offsets purchased, performance year :**

9945 *Metric Tons of CO2 Equivalent*

**List the start and end dates of the GHG emissions performance year :**

July 1, 2009 - June 30, 2010

**On-campus residents, performance year :**

13606

**Non-residential/commuter full-time students, faculty, and staff members, performance year :**

64120

**Non-residential/commuter part-time students, faculty, and staff members, performance year :**

2801

**Time period for weighted campus user (list the consecutive 12 month period that most closely overlaps with GHG performance year) :**

July 1, 2009 - June 30, 2010

## Air Travel Emissions

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**Responsible Party**

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.

## Local Offsets Program

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**Responsible Party**

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.

# Dining Services

This subcategory seeks to recognize institutions that are supporting a sustainable food system. Modern industrial food production often has deleterious environmental impacts. Pesticides and fertilizers used in agriculture can contaminate ground and surface water, which has potentially dangerous impacts on wildlife and human health. Furthermore, the often long-distance transportation of food to institutions produces greenhouse gas emissions and other pollution. Additionally, farm workers are often paid substandard wages, subjected to harsh working conditions, and exposed to dangerous pesticides. Institutions can use their food purchases to support their local economies; encourage safe, environmentally-friendly farming methods; and help alleviate poverty for farmers.

Please note that while dining services can also play an important role in conserving energy and water, reducing waste, and purchasing environmentally preferable materials other than food, STARS measures these impacts across the institution instead of by department; therefore, the benefits of these actions are captured in the Energy, Water, Waste, and Purchasing subcategories, respectively.

<b>Credit</b>
Food and Beverage Purchasing
Trayless Dining
Vegan Dining
Trans-Fats
Guidelines for Franchisees
Pre-Consumer Food Waste Composting
PostConsumer Food Waste Composting
Food Donation
Recycled Content Napkins
Reusable Container Discounts
Reusable To-Go Containers

# Food and Beverage Purchasing

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## Responsible Party

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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## Criteria

This credit includes food and beverage purchases for on-campus dining services operated by the institution or the institution's primary on-site contractor. Institution purchases food and beverages that meet at least one of the following criteria:

- Grown and processed within 250 miles of the institution
- Third-party certified (USDA Certified Organic, Marine Stewardship Council Blue Ecolabel, Food Alliance, Fair Trade, Certified Humane Raised and Handled)

Food and beverage purchases that meet multiple criteria listed above should not be double-counted.

This credit includes food and beverage purchases for on-campus dining operations and catering services operated by the institution or the institution's primary dining services contractor (e.g. Aramark, Bon Appétit Management Company, Chartwells, Sodexo). On-site franchises, convenience stores, vending machines, or concessions are excluded from this credit unless they are operated by the institution or the institution's primary on-site contractor..

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*"---" indicates that no data was submitted for this field*

## Percentage of food expenditures that meet one or more of the criteria for this credit (0 - 100) :

18

## A brief description of the sustainable food and beverage purchasing program :

We purchase through a number of local farmers, and farmer and dairy cooperatives. We also purchase local products through full service distributors.

## The Website URL where information about the institution's sustainable food and beverage purchasing efforts is available :

<http://www.housing.umich.edu/system/files/Eat-Green.pdf>



# Trayless Dining

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**Responsible Party**

**Terrance Alexander**  
Executive Director  
Office of Campus Sustainability

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"---" indicates that no data was submitted for this field

**Does the institution have a trayless dining program in which trays are removed from or not available in dining halls?**

:

Yes

**A brief description of the trayless dining program :**

Betsy Barbour Dining Hall is currently trayless.

**List the year the program was started :**

Sept. 1, 2011

**The overall percentage of meals served on campus that are trayless :**

---

**The percentage of meal plan meals served on campus that are trayless :**

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**The percentage of retail facility meals served on campus that are trayless :**

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**The percentage of conference meals served on campus that are trayless :**

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**The website URL where information about the program is available :**

<http://www.annarbor.com/news/trayless-dining-comes-to-the-university-of-michigan/>

**Responsible Party**

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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**Submission Note:**

See also:

<http://nutrition.housing.umich.edu/NetNutrition/Home.aspx>

*"---" indicates that no data was submitted for this field*

**Does the institution offer diverse, complete-protein vegan dining options during every meal? :**

Yes

**A brief description of the vegan dining program :**

Every dining hall offers vegetarian and vegan options at every meal.

**The website URL where information about the program, policy, or practice is available :**

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# Trans-Fats

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**Responsible Party**

**Terrance Alexander**  
Executive Director  
Office of Campus Sustainability

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*"---" indicates that no data was submitted for this field*

**Does the institution use frying oil that does not include trans-fats and seek to avoid foods that include trans-fats in its dining operations? :**

Yes

**A brief description of the trans-fats avoidance program, policy, or practice :**

Housing Dining Services moved to a trans fat free oil in 2004

**The website URL where information about the program, policy, or practice is available :**

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## Guidelines for Franchisees

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**Responsible Party**

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.

# Pre-Consumer Food Waste Composting

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## Responsible Party

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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### Submission Note:

See also:

<http://www.housing.umich.edu/dining/sustainable>

"---" indicates that no data was submitted for this field

### Does the institution have a pre-consumer food waste composting program? :

Yes

### A brief description of the pre-consumer food waste composting program :

Vegetative pre-consumer food waste is collected from 5 residence halls and 3 food facilities across campus. Waste is taken to the Ann Arbor compost site.

### The overall percentage of meals for which pre-consumer scraps are composted :

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### The percentage of meal plan meals for which pre-consumer scraps are composted :

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### The percentage of retail facility meals for which pre-consumer scraps are composted :

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### The percentage of conference meals for which pre-consumer scraps are composted :

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### The website URL where information about the composting program is available :

[http://www.plantops.umich.edu/grounds/recycle/food\\_composting.php](http://www.plantops.umich.edu/grounds/recycle/food_composting.php)

# PostConsumer Food Waste Composting

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**Responsible Party**

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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*"---" indicates that no data was submitted for this field*

**Does the institution have a postconsumer food waste composting program? :**

Yes

**A brief description of the postconsumer food waste composting program :**

The Ross Business School manages a post consumer food waste compost program

**The percentage of overall meals for which postconsumer composting is available :**

---

**The percentage of meal plan meals for which postconsumer composting is available :**

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**The percentage of retail facilities for which postconsumer composting is available :**

---

**The percentage of conference meals for which postconsumer composting is available :**

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**The website URL where information about the composting program is available :**

<http://www.bus.umich.edu/learningcommunity/sustainable.htm>

# Food Donation

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**Responsible Party**

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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*"---" indicates that no data was submitted for this field*

**Does the institution donate leftover or surplus food? :**

Yes

**A brief description of the food donation program :**

We do work with Food Gatherers during break periods, and at the end of fall and winter term to supply them with excess food and product.

**The website URL where information about the food donation program is available :**

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# Recycled Content Napkins

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**Responsible Party**

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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*"---" indicates that no data was submitted for this field*

**Does the institution use recycled content napkins in its dining service operations? :**

Yes

**A brief description of the purchasing behavior :**

We spec only recycled content napkins within Housing Dining Services.

**The website URL where information about the purchasing is available :**

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## Reusable Container Discounts

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**Responsible Party**

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.

## Reusable To-Go Containers

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**Responsible Party**

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.

# Energy

This subcategory seeks to recognize institutions that are reducing their energy consumption through conservation and efficiency, and switching to cleaner and renewable sources of energy such as solar, wind, geothermal, and low-impact hydropower. For most institutions, energy consumption is the largest source of greenhouse gas emissions, which cause global warming. Global warming is expected to have myriad negative impacts throughout the world, including increased frequency and potency of extreme weather events, sea level rise, species extinction, water shortages, declining agricultural production, and spread of diseases. The impacts are expected to be particularly pronounced for poor communities and countries. In addition to causing global warming, energy generation from fossil fuels, especially coal, produces air pollutants such as sulfur dioxide, nitrogen oxides, mercury, dioxins, arsenic, cadmium and lead. These pollutants contribute to acid rain as well as health problems such as heart and respiratory diseases and cancer. Coal mining and oil and gas drilling can also damage environmentally and/or culturally significant ecosystems. Nuclear power creates highly toxic and long-lasting radioactive waste. Large-scale hydropower floods habitat and disrupts fish migration.

Implementing conservation measures and switching to renewable sources of energy can help institutions save money and protect them from utility rate volatility. Renewable energy may be generated locally and allow campuses to support local economic development. Furthermore, institutions can help shape markets by creating demand for cleaner, renewable sources of energy.

<b>Credit</b>
Building Energy Consumption
Clean and Renewable Energy
Timers for Temperature Control
Lighting Sensors
LED Lighting
Vending Machine Sensors
Energy Management System
Energy Metering

# Building Energy Consumption

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## Responsible Party

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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## Criteria

Institution has reduced its total building energy consumption per gross square foot of building space compared to a 2005 baseline.

To aggregate energy consumption data from multiple sources, figures should be converted into MMBtu (one million British thermal units – a standard measure of energy) using the following equivalents:

1 kWh = 0.003412 MMBtu

1 MWh = 3.412 MMBtu

1 therm = 0.1 MMBtu

1 kBtu = 0.001 MMBtu

1 ton-hour = 0.012 MMBtu

1 MJ = 0.000948 MMBtu

---

"---" indicates that no data was submitted for this field

## Total building energy consumption, 2005 :

6267028 MMBtu

## Building space, 2005 :

29452398 Gross Square Feet

## Total building energy consumption, performance year :

6802596 MMBtu

## Building space, performance year :

33771520 Gross Square Feet

## List the start and end dates of the energy consumption performance year :

July 1, 2009 - June 30, 2010

## Responsible Party

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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## Criteria

Institution supports the development and use of clean and renewable energy sources using any one or combination of the following options.

Option 1: Generating electricity from clean and renewable energy sources on campus and retaining or retiring the rights to the environmental attributes of such electricity. (In other words, if the institution has sold Renewable Energy Credits for the clean and renewable energy it generated, it may not claim such energy here). The on-site renewable energy generating devices may be owned and/or maintained by another party as long as the institution has contractual rights to the associated environmental attributes.

Option 2: Using renewable sources for non-electric, on-site energy generation, such as biomass for heating.

Option 3: Catalyzing the development of off-site clean and renewable energy sources (e.g. an off-campus wind farm that was designed and built to supply electricity to the institution) and retaining the environmental attributes of that energy.

Option 4: Purchasing the environmental attributes of electricity in the form of Renewable Energy Certificates (RECs) or other similar renewable energy products that are either Green-e Energy certified or meet Green-e Energy's technical requirements and are verified as such by a third party, or purchasing renewable electricity through the institution's electric utility through a certified green power purchasing option.

Option 5: Using cogeneration technologies to generate electricity more efficiently. Note: generating electricity using cogeneration technology and a renewable fuel, such as biomass, is considered Option 1 and should not be counted twice.

Since this credit is intended to recognize institutions that are generating new sources of clean and renewable energy, neither the electric grid mix for the region in which the institution is located nor the grid mix reported by the electric utility that serves the institution count for this credit.

Technologies that reduce the amount of energy used but do not generate renewable energy do not count for this credit. For example, daylighting, passive solar design, and ground-source heat pumps are not counted in this credit. The benefits of such strategies are captured by *OP Credit 5: Greenhouse Gas Emissions Reductions* and *OP Credit 7: Building Energy Consumption*.

Transportation fuels, which are covered by *OP Credit 14: Campus Fleet*, are not included in this credit.

To aggregate energy consumption data from multiple sources, figures should be converted into MMBtu (one million British thermal units – a standard measure of energy) using the following equivalents:

1 kWh = 0.003412 MMBtu

1 MWh = 3.412 MMBtu

1 therm = 0.1 MMBtu

1 kBtu = 0.001 MMBtu

1 ton-hour = 0.012 MMBtu

1 MJ = 0.000948 MMBTU

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"---" indicates that no data was submitted for this field

**Option 1: Total clean and renewable electricity generated on site during the performance year and for which the institution retains or has retired the associated environmental attributes :**

143 MMBtu

**Option 2: Non-electric renewable energy generated :**

110 MMBtu

**Option 3: Total clean and renewable electricity generated by off-site projects that the institution catalyzed and for which the institution retains or has retired the associated environmental attributes :**

0 MMBtu

**Option 4: Total RECs and other similar renewable energy products that the institution purchased during the performance year that are Green-e certified or meet the Green-e standard's technical requirements and are third party verified :**

44356 MMBtu

**Option 5: Total electricity generated with cogeneration technology using non-renewable fuel sources :**

519712 MMBtu

**Total energy consumed during the performance year :**

6903207 MMBtu

**A brief description of on-site renewable electricity generating devices :**

Solar voltaics atop Dana Building

**A brief description of on-site renewable non-electric energy devices :**

Solar Thermal Array atop Central Power Plant

**A brief description of off-site, institution-catalyzed, renewable electricity generating devices :**

---

**A brief description of RECs or other similar renewable energy products purchased during the previous year,**

**including contract timeframes :**

RECS purchased from two wind turbines.

**A brief description of cogeneration technologies deployed :**

Central Power Plant generates heat, power, and electricity for approximately 40% of the campus.

**The website URL where information about the institution's renewable energy sources is available :**

<http://www.ocs.umich.edu/energy.shtml>

# Timers for Temperature Control

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## Responsible Party

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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"---" indicates that no data was submitted for this field

## Does the institution use timers to regulate temperatures based on occupancy hours in at least one building? :

Yes

## A brief description of the technology used :

Building Automation Services (BAS) is part of the University of Michigan's Facilities Maintenance department. BAS serves nearly all of the University's General Fund Buildings, and a few non-general fund buildings. BAS implements schedule and operational changes for various types of equipment, and monitors alarm conditions and energy efficient system operation.

Direct Digital Control, known as "DDC" is at the heart of building automation. DDC measures environmental conditions and compares the measurements to the desired settings (a.k.a. setpoints). It calculates an appropriate response if the two aren't equal, and sends out control signals to correct for any difference. Start/stop control and alarm reporting are also incorporated into DDC.

DDC is typically used to control fan systems, namely the supply and return fan speeds, fresh-air mixing dampers, heating and cooling coils and humidification systems, all to maintain the desired fan discharge temperature and humidity and ultimately the occupied spaces of buildings.

## The percentage of building space (square footage) with timers for temperature control :

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## The website URL where information about the practice is available :

<http://www.recycle.umich.edu/maintenance/shops/BAS/>



# Lighting Sensors

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**Responsible Party**

**Terrance Alexander**  
Executive Director  
Office of Campus Sustainability

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*"---" indicates that no data was submitted for this field*

**Does the institution use motion, infrared, and/or light sensors to reduce energy use for lighting in at least one building? :**

Yes

**A brief description of the technology used :**

Planet Blue Operations teams often employ motion sensors as energy conservation measures. One example of occupancy sensors to control lighting is at the Hatcher Graduate Library study carrels

**The percentage of building space with lighting sensors :**

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**The website URL where information about the institution's use of the technology is available :**

[http://www.plantops.umich.edu/utilities/energy\\_management/energy\\_highlight/](http://www.plantops.umich.edu/utilities/energy_management/energy_highlight/)

**Responsible Party**

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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**Submission Note:**

See also:

<http://www.umich.edu/stadium/faq/>

"---" indicates that no data was submitted for this field

**Does the institution use Light Emitting Diode (LED) technology in at least one lighting application? LED applications in exit signs and remote controls do not count for this credit. :**

Yes

**A brief description of the technology used :**

U-M has installed LED outdoor lights, and LED solar powered lights. The new scoreboards at Michigan Stadium include LED message boards.

**The percentage of building space with LED lighting :**

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**The percentage of parking deck space with LED lighting :**

---

**The percentage of outdoor space that uses LED lighting :**

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**The percentage of building space with efficient, non-LED lighting (compact fluorescent, automatic daylight shutoff, or other energy-saving features) :**

---

**The website URL where information about the institution's use of the technology is available :**

[http://www.recycle.umich.edu/utilities/pdf/UPE\\_AnnualRptFY2006.pdf](http://www.recycle.umich.edu/utilities/pdf/UPE_AnnualRptFY2006.pdf)

# Vending Machine Sensors

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**Responsible Party**

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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*"---" indicates that no data was submitted for this field*

**Has the institution installed vending machine motion sensors for at least one vending machine? :**

Yes

**A brief description of the technology used :**

More than 130 refridgerated vending machines have had occupancy sensors installed that power down the machine after 15 minutes of inactivity.

**The percentage of vending machines with sensors :**

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**The website URL where information about the institution's use of the technology is available :**

[http://www.plantops.umich.edu/utilities/energy\\_management/news/03\\_06\\_2007refrig.php](http://www.plantops.umich.edu/utilities/energy_management/news/03_06_2007refrig.php)

# Energy Management System

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## Responsible Party

**Terrance Alexander**  
Executive Director  
Office of Campus Sustainability

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"---" indicates that no data was submitted for this field

### **Does the institution use a centralized energy management system that allows it to track energy consumption and performance in multiple buildings in a central location? :**

Yes

### **A brief description of the management system :**

Building Automation Services and Energy Management monitors utility use for individual buildings and makes this information publicly available. Building Automation Services (BAS) is part of the University of Michigan's Facilities Maintenance department. BAS serves nearly all of the University's General Fund Buildings, and a few non-general fund buildings. BAS implements schedule and operational changes for various types of equipment, and monitors alarm conditions and energy efficient system operation.

### **The percentage of building space monitored with a centralized energy management system :**

---

### **A description of what systems are shut down during unoccupied periods :**

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### **The website URL where information about the institution's use of the technology is available :**

<http://www.recycle.umich.edu/maintenance/shops/BAS/>

# Energy Metering

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**Responsible Party**

**Terrance Alexander**  
Executive Director  
Office of Campus Sustainability

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*"---" indicates that no data was submitted for this field*

**Does the institution meter all energy consumption (electricity, natural gas, purchased steam, etc.) for at least one building? :**

Yes

**A brief description of the metering system :**

Energy management division monitors utility use and makes the information available on its web site.

**The percentage of building space with energy metering :**

---

**The website URL where information about the metering system is available :**

<http://webapp.plant.bf.umich.edu/upe/em/bldginfo/>

# Grounds

This subcategory seeks to recognize institutions that plan and maintain their grounds with sustainability in mind. Beautiful and welcoming campus grounds can be planned, planted, and maintained in any region while minimizing the use of toxic chemicals, protecting wildlife habitat, and conserving water and resources.

<b>Credit</b>
Integrated Pest Management
Native Plants
Wildlife Habitat
Tree Campus USA
Snow and Ice Removal
Landscape Waste Composting

# Integrated Pest Management

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## Responsible Party

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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## Criteria

Institution's grounds are developed and maintained in accordance with an integrated pest management plan that adheres to the following four-tiered approach:

- 1) Set action thresholds
  - 2) Monitor and identify pests
  - 3) Prevention
  - 4) Control
- 

"---" indicates that no data was submitted for this field

## The size of the campus grounds :

2000 Acres

## The size of campus grounds that are maintained in accordance with a four-tiered IPM plan :

1074 Acres

## A brief description of the IPM plan(s) :

U-M Grounds divides campus into 3 priority areas, based upon aesthetic need. For example, high profile areas, like the Central Campus Diag, that require a high aesthetic are labeled as Priority 1, while remote areas, like loading docks and woodlots, with little aesthetic need are labeled as Priority 3. The IPM program begins with the identification of pests and associated monitoring. Pest problems are prevented without chemicals but through activities that support plant vigor (e.g. soil improvement). Next, action thresholds are set. These thresholds vary and are dependent on the priority area, the diagnosed pest problem and the host plant. If the action threshold is met for an area, pest and plant, chemical control methods may be used.

## The website URL where information about the IPM plan(s) is available :

[http://www.plant.bf.umich.edu/grounds/grounds\\_svcs/trees\\_forestry/Integrated\\_Pest\\_Management.php](http://www.plant.bf.umich.edu/grounds/grounds_svcs/trees_forestry/Integrated_Pest_Management.php)

## Responsible Party

**Terrance Alexander**  
Executive Director  
Office of Campus Sustainability

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### Submission Note:

See also:

[http://www.plantops.umich.edu/grounds/grounds\\_svcs/trees\\_forestry/](http://www.plantops.umich.edu/grounds/grounds_svcs/trees_forestry/)

[http://www.aec.bf.umich.edu/desguide/sid/sid\\_t.pdf](http://www.aec.bf.umich.edu/desguide/sid/sid_t.pdf)

"---" indicates that no data was submitted for this field

### Does the institution prioritize the use of native plant species in landscaping? :

Yes

### A brief description of the native plant program, policy, or practice :

We choose plants based on the conditions of the site, the design intent, and the expected aesthetic of the area. Areas of North Campus have a more naturalistic expectation when it comes to aesthetics. The more developed areas do not. We give preference to native, from native seed source or stock, or adapted plants. We do not use plants that are listed as invasive by reliable sources. We are probably most aggressive in the use of natives when it comes to trees. The majority of the trees that we plant are native or from native stock. We do use improved cultivars of native species.

### The website URL where information about the program, policy, or practice is available :

<http://www.plantops.umich.edu/grounds/landscape/>



**Responsible Party**

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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*"---" indicates that no data was submitted for this field*

**Does the institution have programs in place to protect and/or create wildlife habitat on institution-owned land? :**

Yes

**A brief description of the wildlife habitat program, policy, or practice :**

In 1907, the University created a Botanical Garden and Arboretum on the land between Geddes Road and the Huron River, just a few blocks from Central Campus on the site now known as Nichols Arboretum. At the time, the property consisted of approximately 80 acres. Today, more than 100 years later, the University of Michigan Matthaei Botanical Gardens and Nichols Arboretum manages over 700 acres of gardens, research areas, and natural preserves around the Ann Arbor area with a complex of conservatory, greenhouses, laboratory, teaching and meeting spaces at Matthaei Botanical Gardens and the James D. Reader, Jr. Center for Urban Environmental Education at Nichols Arboretum

**The website URL where information about the program, policy, or practice is available :**

<http://www.lsa.umich.edu/mbg/default.asp>

**Responsible Party**

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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*"---" indicates that no data was submitted for this field*

**Is the institution recognized by the Arbor Day Foundation's Tree Campus USA program? :**

Yes

**A brief description of the institution's Tree Campus USA program :**

The ongoing efforts to plant trees and improve landscape have again earned U-M's Ann Arbor campus recognition as a Tree Campus USA institution by the Arbor Day Foundation. In order to achieve Tree Campus USA status, universities must meet specific requirements, which include: effective management of campus trees, developing connectivity with the community beyond campus borders to foster healthy, urban forests, and engagement of students in campus and community forestry efforts.

**The website URL where information about the program, policy, or practice is available :**

<http://www.ur.umich.edu/update/archives/110221/treecampus>

# Snow and Ice Removal

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## Responsible Party

**Terrance Alexander**  
Executive Director  
Office of Campus Sustainability

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"---" indicates that no data was submitted for this field

## Has the institution implemented technologies or strategies to reduce the environmental impacts of snow and ice removal? :

Yes

## A brief description of the snow and ice removal program, policy, or practice :

Alternative granular deicing products continue to be evaluated for effectiveness, non-corrosive properties, ease of application, and cost. Grounds personnel will use only those materials deemed least damaging to University facilities and the environment. GWM is currently using Magnesium chloride as its primary granular deicer for walks, steps, plazas, entryways, etc.

GWM has reduced its salt and sand use by an average of 43%. GWM currently has 17 liquid application units to cover all roads, parking lots, sidewalks, and entryways. Areas designated for anti-icing/deicing treatments will be sprayed with rates of application outlined in the "Operations Matrix". The principle liquid material is 23% Salt Brine mixed with Caliber M-1000 (30% concentration magnesium chloride brine blended with an engineered agricultural byproduct at a 90/10 ratio).

## The website URL where information about the program, policy, or practice is available :

[http://www.plantops.umich.edu/grounds/snow\\_manual/](http://www.plantops.umich.edu/grounds/snow_manual/)

# Landscape Waste Composting

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## Responsible Party

**Terrance Alexander**  
Executive Director  
Office of Campus Sustainability

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"---" indicates that no data was submitted for this field

### Does the institution compost or mulch waste from grounds keeping, including grass trimmings? :

Yes

### A brief description of the composting or mulching program :

U-M Grounds services converted more than 3000 cubic yards of yard waste in re-usable mulch in FY2010.

### The percentage of landscape waste that is mulched or composted onsite :

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### The percentage of landscape waste that is mulched or composted off-site :

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### The website URL where information about the program, policy, or practice is available :

<http://www.ocs.umich.edu/11AERrawdata.shtml>

# Purchasing

This subcategory seeks to recognize institutions that are using their purchasing power to help build a sustainable economy. Collectively, colleges and universities spend many billions of dollars on goods and services annually. Each purchasing decision represents an opportunity for institutions to choose environmentally and socially preferable products and services and support companies with strong commitments to sustainability.

<b>Credit</b>
Computer Purchasing
Cleaning Products Purchasing
Office Paper Purchasing
Vendor Code of Conduct
Historically Underutilized Businesses
Local Businesses

# Computer Purchasing

---

## Responsible Party

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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## Criteria

### *Part 1*

Institution has an institution-wide stated preference to purchase Electronic Product Environmental Assessment Tool (EPEAT) Silver or higher products. This can take the form of purchasing policies, guidelines, or directives. This credit does not include specialized computers for which no EPEAT certified products are available. Policies and directives adopted by entities of which the institution is part (e.g. state government or the university system) may count for this credit as long as the policies apply to and are followed by the institution.

### *Part 2*

Institution purchases Electronic Product Environmental Assessment Tool (EPEAT) Silver and/or Gold registered products for standard desktop and notebook/laptop computers and monitors. This credit does not include specialized computers for which no EPEAT certified products are available.

---

## Submission Note:

See also:

<http://www.sustainablecomputing.umich.edu/>

"---" indicates that no data was submitted for this field

**Does the institution have an institution-wide stated preference to purchase EPEAT Silver or higher computers and monitors? :**

Yes

**The website URL where the EPEAT policy, directive, or guidelines are posted :**

<http://www.finance.umich.edu/node/1565>

**A brief description of steps the institution has taken to ensure that the purchasing policy, directives, or guidelines are followed :**

Procurement Services supports University sustainability efforts and initiatives, details of which can be found at the Inside Finance website included above.

**Does the institution wish to pursue points for Part 2 of this credit (expenditures on EPEAT computers)? :**

Yes

**Expenditures on EPEAT Gold desktop and laptop computers and monitors :**

3340000 *US/Canadian \$*

**Expenditures on EPEAT Silver desktop and laptop computers and monitors :**

13360000 *US/Canadian \$*

**Total expenditures on desktop and laptop computers and monitors :**

16700000 *US/Canadian \$*

# Cleaning Products Purchasing

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## Responsible Party

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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## Criteria

### Part 1

Institution has an institution-wide stated preference to purchase Green Seal™ or EcoLogo™ certified cleaning products. The stated preference can take the form of purchasing policies, guidelines, or directives to purchase green cleaning products. Policies and directives adopted by entities of which the institution is part (e.g. state government or the university system) may count for this credit as long as the policies apply to and are followed by the institution.

### Part 2

Institution's main cleaning or housekeeping department(s) and/or contractor(s) purchase Green Seal or EcoLogo certified cleaning products. This credit does not include cleaning products for which no Green Seal or EcoLogo certified products are available.

---

## Submission Note:

See also:

<http://managemen.com/os1/environmental-statement/responsible-products/>

"---" indicates that no data was submitted for this field

**Does the institution have an institution-wide stated preference to purchase Green Seal (tm) or EcoLogo (tm) certified cleaning products? :**

No

**The website URL where the green cleaning product purchasing policy, directive, or guidelines are posted :**

<http://www.recycle.umich.edu/grounds/building/os1/>

**A brief description of steps the institution has taken to ensure that the purchasing policy, directives, or guidelines are followed :**

Plant Building & Grounds Services (PBGS), provider of custodial services to all general fund campus buildings, purchases and uses Green Seal labeled products through its use of the OS1 cleaning program. U-M PBGS has centralized purchasing for the products used in OS1. Failure to purchase the approved products is addressed through the performance review process.



**Does the institution wish to pursue points for Part 2 of this credit (expenditures on cleaning products)? :**

Yes

**Expenditures on Green Seal and/or EcoLogo certified cleaning products :**

52194.40 *US/Canadian \$*

**Total expenditures on cleaning products :**

156387.71 *US/Canadian \$*

**A copy of the sections of the cleaning contract(s) that reference certified green products :**

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# Office Paper Purchasing

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## Responsible Party

**Terrance Alexander**  
Executive Director  
Office of Campus Sustainability

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## Criteria

### Part 1

Institution has an institution-wide stated preference to purchase recycled content office paper. This can take the form of purchasing policies, guidelines, or directives to purchase recycled content office paper. Policies and directives adopted by entities of which the institution is part (e.g. state government or the university system) may count for this credit as long as the policies apply to and are followed by the institution.

### Part 2

Institution purchases recycled content office paper.

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#### Submission Note:

See also:

[http://www.plantops.umich.edu/grounds/recycle/buy\\_recycled.php](http://www.plantops.umich.edu/grounds/recycle/buy_recycled.php)

<http://www.finance.umich.edu/procurement/howtobuy/greenpurchasing>

"---" indicates that no data was submitted for this field

**Does the institution have an institution-wide stated preference to purchase recycled content office paper? :**

Yes

**The URL where the recycled paper policy, directive, or guidelines are posted :**

<http://www.itcs.umich.edu/sites/printing/>

**A brief description of steps the institution has taken to ensure that the purchasing policy, directives, or guidelines are followed :**

Competitive pricing on recycled content paper has been established with primary vendors. Campus computing sites have switched to recycled content paper.

**Does the institution wish to pursue points for Part 2 of this credit (expenditures on recycled paper)? :**

Yes

**Expenditures on 10-29 percent recycled-content office paper :**

1063 *US/Canadian \$*

**Expenditures on 30-49 percent recycled-content office paper :**

666359 *US/Canadian \$*

**Expenditures on 50-69 percent recycled-content office paper :**

54192 *US/Canadian \$*

**Expenditures on 70-89 percent recycled-content office paper (required if claiming points for Part 2) :**

0 *US/Canadian \$*

**Expenditures on 90-100 percent recycled-content office paper :**

112664 *US/Canadian \$*

**Total expenditures on office paper :**

2374940 *US/Canadian \$*

# Vendor Code of Conduct

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## Responsible Party

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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## Criteria

Institution has and acts on a vendor code of conduct or equivalent policy that sets expectations about the social and environmental responsibility of vendors with whom the institution does business. Policies adopted by entities of which the institution is part (e.g. state government or the university system) may count for this credit as long as the policies apply to and are followed by the institution.

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*"---" indicates that no data was submitted for this field*

**Does the institution have and act on a vendor code of conduct or equivalent policy that sets expectations about the social and environmental responsibility of vendors with whom the institution does business? :**

Yes

**The website URL where the vendor code of conduct or equivalent policy is posted :**

<http://www.vpcomm.umich.edu/pa/key/pdf/VendorCode.pdf>

**A copy of the vendor code of conduct or equivalent policy :**

---

**A brief description of programs and strategies institution has implemented to ensure the code is followed, including a brief description of instances when vendor code of conduct has changed purchasing behavior within the last five years, if applicable :**

The Code of Conduct for University of Michigan Vendors specifically addresses social/environmental issues vendors are expected to comply with. Furthermore, the code states that when a vendor is suspected of not adhering to the code, a review board will be formed to investigate and if determine appropriate course of action.

## Historically Underutilized Businesses

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**Responsible Party**

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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*"---" indicates that no data was submitted for this field*

**Does the institution seek to support historically underutilized businesses, minority-owned businesses, and women owned-businesses? :**

Yes

**A brief description of how the institution meets the criteria :**

Procurement services identifies minority owned and women owned businesses through an icon system designed to assist purchasers in including diversity issues in their purchasing decisions

**The website URL where information about the program, policy, or practice is available :**

<http://www.finance.umich.edu/procurement/howtobuy/universitycontracts>

## Local Businesses

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**Responsible Party**

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

---

*"---" indicates that no data was submitted for this field*

**Does the institution give preference to local products and businesses in its purchasing decisions? Local food purchases, which are covered in OP Credit 6: Food Purchasing, are not included in this credit. :**

Yes

**A brief description of the program :**

Procurement services complies with the State of Michigan higher education appropriation bill and strives to heighten awareness of Michigan suppliers

**The website URL where information about the program, policy, or practice is available :**

<http://www.finance.umich.edu/procurement/howtobuy/made>

# Transportation

This subcategory seeks to recognize institutions that are moving toward sustainable transportation systems. Transportation is a major source of greenhouse gas emissions and other pollutants that contribute to health problems such as heart and respiratory diseases and cancer. Due to disproportionate exposure, these health impacts are frequently more pronounced in low-income communities next to major transportation corridors. In addition, the extraction, production, and global distribution of fuels for transportation can damage environmentally and/or culturally significant ecosystems and may financially benefit hostile and/or oppressive governments.

At the same time, campuses can reap benefits from modeling sustainable transportation systems. Bicycling and walking provide human health benefits and mitigate the need for large areas of paved surface, which can help campuses to better manage storm water. Institutions may realize cost savings and help support local economies by reducing their dependency on petroleum-based fuels for transportation.

<b>Credit</b>
Campus Fleet
Student Commute Modal Split
Employee Commute Modal Split
Bicycle Sharing
Facilities for Bicyclists
Bicycle and Pedestrian Plan
Mass Transit Programs
Condensed Work Week
Telecommuting
Carpool/Vanpool Matching
Cash-out of Parking
Carpool Discount
Local Housing
Prohibiting Idling
Car Sharing

## Responsible Party

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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## Criteria

Institution supports alternative fuel and power technology by including in its motorized vehicle fleet (cars, trucks, tractors, buses) vehicles that are:

1. Gasoline-electric hybrid
2. Diesel-electric hybrid
3. Plug-in hybrid
4. 100 percent electric
5. Fueled with Compressed Natural Gas (CNG)
6. Hydrogen fueled
7. Fueled with B20 or higher biofuel for more than 6 months of the year; and/or
8. Fueled with E85 or higher ethanol for more than 6 months of the year.

For this credit, the institution's motorized fleet includes all institution-owned and operated vehicles that are used for transporting people and/or goods. Heavy construction equipment (e.g. excavators and pavers) and maintenance equipment (e.g. lawn-mowers and leaf blowers) are not included in this credit.

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*"---" indicates that no data was submitted for this field*

### **Gasoline-electric, non-plug-in hybrid vehicles in the institution's fleet :**

14

### **Diesel-electric, non-plug-in hybrid vehicles in the institution's fleet :**

0

### **Plug-in hybrid vehicles in the institution's fleet :**

0

### **100 percent electric vehicles in the institution's fleet :**

3

### **Vehicles in the institution's fleet that are fueled with Compressed Natural Gas (CNG) :**

0



**Hydrogen fueled vehicles in the institution's fleet :**

0

**Vehicles in the institution's fleet that are fueled with B20 or higher biofuel for more than 6 months of the year :**

96

**Vehicles in the institution's fleet that are fueled with E85 or higher ethanol for more than 6 months of the year :**

545

**Total number of vehicles in the institution's fleet, including all of the above :**

1077

# Student Commute Modal Split

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## Responsible Party

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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## Criteria

Institution's students commute to and from campus using more sustainable options such as walking, bicycling, vanpooling or carpooling, taking public transportation, riding motorcycles or scooters, riding a campus shuttle, or a combination of these options. Students who live on campus should be included in the calculation based on how they get to and from their classes.

---

*"---" indicates that no data was submitted for this field*

**The percentage (0-100) of institution's students who use more sustainable commuting options :**

88

**The percentage (0-100) of institution's students who commute with only the driver in the vehicle (excluding motorcycles and scooters) as their primary method of transportation :**

12

**The percentage (0-100) of institution's students who walk, bicycle, or use other non-motorized means as their primary method of transportation. Please note that this may include on-campus residents :**

54

**The percentage (0-100) of institution's students who vanpool or carpool as their primary method of transportation :**

3

**The percentage (0-100) of institution's students who take a campus shuttle or public transportation as their primary method of transportation :**

30

**The percentage (0-100) of institution's students who use a motorcycle, scooter or moped as their primary method of transportation :**

1

**The website URL where information about alternative transportation is available :**

[http://www.pts.umich.edu/alternative\\_transportation/index.php](http://www.pts.umich.edu/alternative_transportation/index.php)

# Employee Commute Modal Split

---

## Responsible Party

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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## Criteria

Institution's employees (faculty, staff, and administrators) commute to and from campus using more sustainable options such as walking, bicycling, vanpooling or carpooling, taking public transportation, riding motorcycles or scooters, riding a campus shuttle, or a combination of these options. Employees who live on campus should be included in the calculation based on how they get to and from their workplace.

---

*"---" indicates that no data was submitted for this field*

**The percentage (0-100) of institution's employees that use more sustainable commuting options :**

20

**The percentage (0-100) of institution's employees who commute with only the driver in the vehicle (excluding motorcycles and scooters) as their primary method of transportation :**

80

**The percentage (0-100) of institution's employees who walk, bicycle, or use other non-motorized means as their primary method of transportation. Please note that this may include on-campus residents :**

4

**The percentage (0-100) of institution's employees who vanpool or carpool as their primary method of transportation :**

10

**The percentage (0-100) of institution's employees who take a campus shuttle or public transportation as their primary method of transportation :**

5

**The percentage (0-100) of institution's employees who use a motorcycle, scooter, or moped as their primary method of transportation :**

1

**The website URL where information about alternative transportation is available :**

[http://www.pts.umich.edu/alternative\\_transportation/index.php](http://www.pts.umich.edu/alternative_transportation/index.php)



## Bicycle Sharing

This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.

# Facilities for Bicyclists

---

## Responsible Party

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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*"---" indicates that no data was submitted for this field*

**Does the institution have indoor and secure bike storage, shower facilities, and lockers for bicycle commuters in at least one building? :**

Yes

**A brief description of the facilities :**

Bike lockers are available as well as covered/secured bike parking at the Thompson St. Structure. Many buildings have shower facilities available for staff. Example Campus Safety Services Building

**The website URL where information about the program, policy, or practice is available :**

[http://pts.umich.edu/alternative\\_transportation/bicycles.php](http://pts.umich.edu/alternative_transportation/bicycles.php)

# Bicycle and Pedestrian Plan

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## Responsible Party

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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## Submission Note:

See also:

<http://www.graham.umich.edu/ia/campus-reports.php>

*"---" indicates that no data was submitted for this field*

## Has the institution developed a bicycle plan? :

Yes

## A brief description of the plan :

The University of Michigan co-sponsored the City of Ann Arbor's Non-motorized Plan (2007) which addresses bicycle-related planning in the City of Ann Arbor and at the University of Michigan. The plan is currently being updated (2012) and U-M is actively involved in this effort that will further address bicycle planning on City and University owned-roads. Bicycle planning has also been incorporated in campus master plan updates, and the University Planner's Office is currently working on a comprehensive master plan update. In addition, OCS has undertaken an Integrated Assessment for the entire campus. A focus area in this effort has been transportation with many of the team's recommendations focusing on bicycle-related improvements at the University.

## The website URL where information about the plan is available :

<http://www.aec.bf.umich.edu/campus.plans/index.html>

# Mass Transit Programs

---

**Responsible Party**

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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*"---" indicates that no data was submitted for this field*

**Does the institution offer free or reduced price transit passes and/or operate a free campus shuttle? :**

Yes

**A brief description of the program(s), (s), including availability, participation levels, and specifics about discounts or subsidies offered (including pre-tax options) :**

U-M operates a free campus shuttle bus service. Also, faculty, staff, and students may ride the Ann Arbor transportation buses at no charge through the M-Ride program subsidized by the university. In FY10 we had approx. 6.5M riders on the UM bus system and another 2.5M on the Ann Arbor AATA buses through the M-Ride Program.

**The website URL where information about the program is available :**

[http://pts.umich.edu/taking\\_the\\_bus/index.php](http://pts.umich.edu/taking_the_bus/index.php)



## Condensed Work Week

---

**Responsible Party**

**Terrance Alexander**  
Executive Director  
Office of Campus Sustainability

---

*"---" indicates that no data was submitted for this field*

**Does the institution offer a condensed work week option for employees? The institution does not have to offer the option to all employees in order to earn this credit. :**

Yes

**A brief description of the program :**

Flexible scheduling is allowed at U-M. Arrangements are made on a per department basis.

**The website URL where information about the program is available :**

<http://www.hr.umich.edu/compclass/flsa/flexibility.html>

# Telecommuting

---

**Responsible Party**

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

---

*"---" indicates that no data was submitted for this field*

**Does the institution offer a telecommute program for employees? :**

Yes

**A brief description of the program :**

Telecommuting is allowed at U-M. Arrangements are made on a per department basis.

**The website URL where information about the program is available :**

<http://www.hr.umich.edu/compclass/flsa/flexibility.html>

## Carpool/Vanpool Matching

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**Responsible Party**

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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*"---" indicates that no data was submitted for this field*

**Does the institution participate in a carpool/vanpool matching program? :**

Yes

**A brief description of the program :**

U-M sponsors a vanpool program as well as the ZimRide and GreenRide programs

**The website URL where information about the program is available :**

[http://pts.umich.edu/alternative\\_transportation/carpools.php](http://pts.umich.edu/alternative_transportation/carpools.php)

# Cash-out of Parking

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## Responsible Party

**Terrance Alexander**  
Executive Director  
Office of Campus Sustainability

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*"---" indicates that no data was submitted for this field*

**Does the institution allow commuters to cash out of parking spaces (i.e., it pays employees who do not drive to work)?**

:

Yes

### **A brief description of the program :**

Registered carpoolers can share a permit on a pre-tax basis. Carpools with three or more persons are able to purchase a reserved space at a discounted rate.

The University of Michigan has sponsored vanpooling for its faculty and staff since the 1970s. Up to six passengers and a driver meet each day in their community and ride in together, are dropped off near work, and the van is parked in a reserved parking place on campus.

**The website URL where information about the program is available :**

[http://pts.umich.edu/alternative\\_transportation/index.php](http://pts.umich.edu/alternative_transportation/index.php)

## Carpool Discount

---

**Responsible Party**

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

---

*"---" indicates that no data was submitted for this field*

**Does the institution offer reduced parking fees for car and van poolers? :**

Yes

**A brief description of the program :**

Registering your carpool with PTS Customer Service will allow you to share a parking permit with your fellow carpoolers

**The website URL where information about the program is available :**

[http://pts.umich.edu/alternative\\_transportation/carpools.php](http://pts.umich.edu/alternative_transportation/carpools.php)

**Responsible Party**

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

---

*"---" indicates that no data was submitted for this field*

**Does the institution have incentives or programs to encourage employees to live close to campus? :**

Yes

**A brief description of the incentives or programs :**

Active University of Michigan-Ann Arbor students, faculty and staff are able to ride AATA fixed-route bus service (external link) without paying a fare. This benefit is a result of a five-year agreement between U-M and AATA, valued at \$1.8 million annually.

Under this contract, AATA permits all active U-M faculty, staff and students to ride on all of its regularly scheduled fixed-route buses at any time of day, any day of the week without paying a fare. U-M passengers simply will show a valid Mcard ID (yellow card) to access the AATA's Mride Program.

Free UM Bus Service is offered to commuters

Although not used by Ann Arbor residents, A2 Express Bus Service is offered at a subsidized rate to residents of nearby communities of Chelsea/Canton

**The website URL where information about the incentives or programs is available :**

[http://pts.umich.edu/taking\\_the\\_bus/mride.php](http://pts.umich.edu/taking_the_bus/mride.php)

# Prohibiting Idling

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## Responsible Party

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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### Submission Note:

See also:

[http://pts.umich.edu/um\\_vehicles\\_services/fleet\\_policies/idle\\_policy.pdf](http://pts.umich.edu/um_vehicles_services/fleet_policies/idle_policy.pdf)

*"---" indicates that no data was submitted for this field*

### Has the institution adopted a policy prohibiting idling? :

Yes

### A brief description of the policy :

Plant Operations issued a policy guide in 2000 prohibiting unnecessary idling of university vehicles.

Parking & Transportation Services as issued a policy applicable to all UM fleet vehicles that prohibits idling of vehicle for longer than 1 minute.

### The website URL where information about the policy is available :

[http://www.recycle.umich.edu/director/PDF/pg/pg\\_1\\_5\\_unecessary\\_idling\\_um\\_vehicles.pdf](http://www.recycle.umich.edu/director/PDF/pg/pg_1_5_unecessary_idling_um_vehicles.pdf)

## Car Sharing

---

**Responsible Party**

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

---

*"---" indicates that no data was submitted for this field*

**Does the institution participate in a car sharing program, such as ZipCar or HourCar? :**

Yes

**A brief description of the program :**

University of Michigan students, faculty, and staff can join zipcar and get 24/7 access to Zipcars parked right on campus. Simply reserve online, let yourself in with your Zipcard and drive. Hourly and daily rates always include gas and insurance.

**The website URL where information about the program, policy, or practice is available :**

<http://www.zipcar.com/umich/>



# Waste

This subcategory seeks to recognize institutions that are moving toward zero waste by reducing, reusing, recycling, and composting. These actions mitigate the need to extract virgin materials, such as trees and metals. It generally takes less energy and water to make a product with recycled material than with virgin resources. Reducing waste generation also reduces the flow of waste to incinerators and landfills which produce greenhouse gas emissions, can contaminate air and groundwater supplies, and tend to have disproportionate negative impacts on low-income communities. Waste reduction and diversion also save institutions costly landfill and hauling service fees. In addition, waste reduction campaigns can engage the entire campus community in contributing to a tangible sustainability goal.

<b>Credit</b>
Waste Reduction
Waste Diversion
Construction and Demolition Waste Diversion
Electronic Waste Recycling Program
Hazardous Waste Management
Materials Exchange
Limiting Printing
Materials Online
Chemical Reuse Inventory
Move-In Waste Reduction
Move-Out Waste Reduction

# Waste Reduction

---

## Responsible Party

**Terrance Alexander**  
Executive Director  
Office of Campus Sustainability

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## Criteria

Institution has implemented source reduction strategies to reduce total waste generation (garbage, recycling, and compost) per weighted campus user compared to a 2005 baseline.

Total waste generation includes all materials recycled, composted, and disposed of as trash except construction, demolition, electronic, hazardous, special (e.g. coal ash), universal and non-regulated chemical waste, which are covered in *OP Credit 19: Construction and Demolition Waste Diversion*, *OP Credit 20: Electronic Waste Recycling Program*, and *OP Credit 21: Hazardous Materials Management*.

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## Submission Note:

See also:

<http://www.recycle.umich.edu/grounds/wms/>

"---" indicates that no data was submitted for this field

## Weight of materials recycled, 2005 baseline year :

4202 Tons

## Weight of materials composted, 2005 baseline year :

216 Tons

## Weight of materials disposed as garbage, 2005 baseline year :

14252 Tons

## Weight of materials recycled, performance year :

5377 Tons

## Weight of materials composted, performance year :

344 Tons

## Weight of materials disposed as garbage, performance year :

16448 Tons

**List the start and end dates of the waste reduction performance year :**

July 1, 2009 - June 30, 2010

**On-campus residents, 2005 :**

13947

**Non-residential/commuter full-time students, faculty, and staff members, 2005 :**

58062

**Non-residential/commuter part-time students, faculty, and staff members, 2005 :**

1838

**On-campus residents, performance year :**

13606

**Non-residential/commuter full-time students, faculty, and staff members, performance year :**

64120

**Non-residential/commuter part-time students, faculty, and staff members, performance year :**

2801

**Time period for weighted campus user (list the consecutive 12 month period that most closely overlaps with waste reduction performance year) :**

July 1, 2009 - June 30, 2010

**Indication of whether institution has a stated commitment to waste-reduction goals, such as zero waste :**

---

**A brief description of the plan of action to achieve waste reduction goals :**

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**The website URL where information about the institution's waste reduction initiatives is available :**

<http://www.ocs.umich.edu/11AERrawdata.shtml>

# Waste Diversion

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## Responsible Party

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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## Criteria

Institution diverts materials from the landfill or incinerator by recycling, composting, reusing, donating, or re-selling.

This credit does not include construction, demolition, electronic, hazardous, special (e.g. coal ash), universal and non-regulated chemical waste, which are covered in *OP Credit 19: Construction and Demolition Waste Diversion*, *OP Credit 20: Electronic Waste Recycling Program*, and *OP Credit 21: Hazardous Materials Management*.

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"---" indicates that no data was submitted for this field

## Materials recycled, composted, reused, donated, re-sold, or otherwise diverted :

5389 Tons

## Materials disposed in a solid waste landfill or incinerator :

11059 Tons

## A brief description of programs, policies, infrastructure investments, outreach efforts, and/or other factors that contributed to the diversion rate :

U-M has a recycling program, Student Move in, Student Move out, and a Property Disposition service that facilitates reuse and recycling. Property Disposition records data via a dollar figure therefore weight was not available.

# Construction and Demolition Waste Diversion

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## Responsible Party

**Terrance Alexander**  
Executive Director  
Office of Campus Sustainability

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## Criteria

Institution diverts non-hazardous construction and demolition waste from the landfill and/or incinerator.

Soil and organic debris from excavating or clearing the site do not count for this credit.

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*"---" indicates that no data was submitted for this field*

## Amount of construction and demolition materials recycled, donated, or otherwise recovered :

150 Tons

## Amount of construction and demolition materials landfilled or incinerated :

1292 Tons

## A brief description of programs, policies, infrastructure investments, outreach efforts, and/or other factors that contribute to the diversion rate for construction and demolition waste :

U-M Waste Management Services (WMS) provides roll offs for construction & demolition waste recycling on campus. Materials targeted include scrap metal and scrap wood. A ceiling tile recycling program through Armstrong is also available to campus.

# Electronic Waste Recycling Program

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## Responsible Party

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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## Criteria

### Part 1

Institution has a program in place to recycle, reuse, and/or refurbish all electronic waste generated by the institution. Institution takes measures to ensure that the electronic waste is recycled responsibly.

### Part 2

Institution has a program in place to recycle, reuse, and/or refurbish electronic waste generated by students. Institution takes measures to ensure that the electronic waste is recycled responsibly.

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## Submission Note:

See also:

<http://sustainability.umich.edu/news/e-waste-recycling-event-sets-collection-record>

<http://www.ocs.umich.edu/ewaste.shtml>

<http://www.ocs.umich.edu/pollutionprevention.shtml>

"---" indicates that no data was submitted for this field

**Does the institution have a program in place to recycle, reuse, and/or refurbish all electronic waste generated by the institution and take measures to ensure that the electronic waste is recycled responsibly? :**

Yes

**Does the institution have a program in place to recycle, reuse, and/or refurbish electronic waste generated by students and take measures to ensure that the electronic waste is recycled responsibly? :**

Yes

**A brief description of steps taken to ensure that e-waste is recycled responsibly, workers' basic safety is protected, and environmental standards are met :**

All electronic waste is disposed of through U-M Occupational Safety & Environmental Health Department insuring that all e-waste is collected by contracted recycler. Recycler is chosen only after an audit of their process confirms that all equipment is processed in North America by a fully permitted facility in full compliance with all local, state, and federal guidelines/regulations/laws pertaining to the proper and environmentally sound recycling of electronics equipment.

**A brief description of the electronic waste recycling program for institution-generated materials :**

All e-waste is collected by UM OSEH department if Property Disposition is unable to resell the materials as usable. UM OSEH uses an approved contracted recycler to handle the materials.

**A brief description of the electronic waste recycling program for student-generated materials :**

Students residing in on campus housing are asked to take unwanted electronics to designated e-waste areas located in each residence hall. This material is then collected by the UM OSEH department for proper recycling.

The UM Office of Campus Sustainability in coordination with the Ann Arbor public schools organizes and sponsors an annual e-waste event open to the general public and local businesses where anyone may drop off e-waste free of charge.

**The website URL where information about the e-waste recycling program is available :**

<http://www.recycle.umich.edu/grounds/recycle/materials/electronics.php>

# Hazardous Waste Management

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## Responsible Party

**Terrance Alexander**  
Executive Director  
Office of Campus Sustainability

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## Criteria

Institution has strategies in place to safely dispose of all hazardous, special (e.g. coal ash), universal, and non-regulated chemical waste and seeks to minimize the presence of these materials on campus.

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### Submission Note:

See also:

<http://www.ocs.umich.edu/pollutionprevention.shtml>

"---" indicates that no data was submitted for this field

**Does the institution have strategies in place to safely dispose of all hazardous, special (e.g. coal ash), universal, and non-regulated chemical waste and seek to minimize the presence of these materials on campus? :**

Yes

**A brief description of steps taken to reduce hazardous, special (e.g. coal ash), universal, and non-regulated chemical waste :**

U-M has managed a pollution prevention (P2) program since 1997. Included in the P2 program is a chemical redistribution program where unused chemicals may be donated for use by other departments, as well as informational guides to assist with waste minimization, micro-techniques, chemical substitution processes. U-M also has on site distillation of acetone, xylene, and formalin waste allowing for reuse of these chemicals.

**A brief description of how the institution safely disposes of hazardous, universal, and non-regulated chemical waste :**

UM Occupational Safety & Environmental Health Department Hazardous Materials Management (HMM) is responsible for the collection and proper disposal of chemical, radioactive, and biological waste generated throughout U-M.

**The website URL where information about hazardous materials management is available :**

<http://www.oseh.umich.edu/hazmats/index.shtml>



# Materials Exchange

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## Responsible Party

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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### Submission Note:

See also:

[http://www.recycle.umich.edu/grounds/recycle/materials/office\\_supplies.php](http://www.recycle.umich.edu/grounds/recycle/materials/office_supplies.php)

*"---" indicates that no data was submitted for this field*

**Does the institution have a surplus department or formal office supplies exchange program that facilitates reuse of materials? :**

Yes

**A brief description of the program :**

The Property Disposition office is responsible for the accountable disposal of University of Michigan property designated as surplus by university departments. Our mission is to recycle, sell, or dispose of surplus to the best advantage of the University of Michigan. Waste Management Services collects gently used (but still usable!) office supplies for reuse. This includes binders, folders, desk organizers, staplers, and paper clips

**The website URL where information about the program is available :**

<http://www.finance.umich.edu/analysis/property-disposition>

## Limiting Printing

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**Responsible Party**

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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*"---" indicates that no data was submitted for this field*

**Does the institution limit free printing for students in all computer labs and libraries? :**

Yes

**A brief description of how printing is limited :**

The standard computing services allows students to print up to 400 black and white pages per term at no cost to all ITS Campus Computing Sites printers.

**The website URL where information about the program, policy, or practice is available :**

<http://www.itcs.umich.edu/sites/printing/>

**Responsible Party**

**Terrance Alexander**  
Executive Director  
Office of Campus Sustainability

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*"---" indicates that no data was submitted for this field*

**Is the institution's default not to print course catalogs, course schedules, and directories, but instead make these materials available online? :**

Yes

**A brief description of the practice :**

The Office of the Registrar offers the Schedule of Classes online in excel & pdf formats. These documents are refreshed nightly for active terms. They do not print any course schedules. Archived schedules are also kept electronically in PDF at the Bentley Historical Library

**The website URL where information about the practice is available :**

<http://www.ro.umich.edu/schedule/>

# Chemical Reuse Inventory

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## Responsible Party

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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*"---" indicates that no data was submitted for this field*

## Has the institution implemented a campus-wide inventory system to facilitate the reuse of laboratory chemicals? :

Yes

## A brief description of the program :

The Chemical Reuse program provides research and teaching labs with an opportunity to obtain desired chemicals and solvents free of charge. OSEH stores the unexpired and unused surplus chemicals in a repository for redistribution. This program was developed by the Office of Campus Sustainability (OCS) in collaboration with OSEH as part of U-M's sustainability initiative

## The website URL where information about the practice is available :

<http://www.oseh.umich.edu/hazmats/chem-reuse.shtml>

# Move-In Waste Reduction

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**Responsible Party**

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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*"---" indicates that no data was submitted for this field*

**Does the institution have a program to reduce residence hall move-in waste? :**

Yes

**A brief description of the program :**

For the last 20 years, U-M Waste Management Services has worked with U-M Housing to make Student Move-In an Earth-friendly event. Since 1990, a program has been in place to collect the tons of cardboard generated by students during the August Move-In and expanded in 2000 to include Styrofoam collection .

**The website URL where information about the program is available :**

[http://www.recycle.umich.edu/grounds/recycle/student\\_move-in.php](http://www.recycle.umich.edu/grounds/recycle/student_move-in.php)

# Move-Out Waste Reduction

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**Responsible Party**

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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*"---" indicates that no data was submitted for this field*

**Does the institution have a program to reduce residence hall move-out waste? :**

Yes

**A brief description of the program :**

Beginning a week before resident Move Out times, a donation area is set up in the central area or lobby of every Residence Hall. This area is where residents can donate items they don't want, can't believe they own, or simply don't have room for in their car. These materials are picked up by Waste Management Services' staff, sorted into categories, and then donated to local non-profits in the Ann Arbor area.

**The website URL where information about the program is available :**

[http://www.recycle.umich.edu/grounds/recycle/student\\_move-out.php](http://www.recycle.umich.edu/grounds/recycle/student_move-out.php)

# Water

This subcategory seeks to recognize institutions that are conserving water and making efforts to protect water quality. Pumping, delivering, and treating water is a major energy user, so institutions can help reduce energy consumption and the greenhouse gas emissions associated with energy generation by conserving water. Likewise, conservation and effective stormwater management are important in maintaining and protecting finite groundwater supplies. Water conservation and effective stormwater management also reduce the need for effluent discharge into local surface water supplies, which helps improve the health of local water ecosystems.

<b>Credit</b>
Water Consumption
Stormwater Management
Waterless Urinals
Building Water Metering
Non-Potable Water Usage
Xeriscaping
Weather-Informed Irrigation

# Water Consumption

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## Responsible Party

**Terrance Alexander**  
Executive Director  
Office of Campus Sustainability

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## Criteria

Institution has reduced its total water consumption per weighted campus user compared to a 2005 baseline.

Total water consumption includes both potable and non-potable water.

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## Submission Note:

See also:

<http://sustainability.umich.edu/news/improved-irrigation-system-provides-water-and-cost-savings>

-0

"---" indicates that no data was submitted for this field

## Water consumption, 2005 baseline year :

1320548618 Gallons

## Water consumption, performance year :

1206818521 Gallons

## List the start and end dates of the water consumption performance year :

July 1, 2009 - June 30, 2010

## On-campus residents, 2005 :

13947

## Non-residential/commuter full-time students, faculty, and staff members, 2005 :

58062

## Non-residential/commuter part-time students, faculty, and staff members, 2005 :

1838

## On-campus residents, performance year :



13606

**Non-residential/commuter full-time students, faculty, and staff members, performance year :**

64120

**Non-residential/commuter part-time students, faculty, and staff members, performance year :**

2801

**Time period for weighted campus user (list the consecutive 12 month period that most closely overlaps with water consumption performance year) :**

July 1, 2009 - June 30, 2010

**Indication of whether institution has a stated commitment to water use reduction goals :**

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**A brief description of the plan of action to achieve water use reduction goals :**

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**The website URL where information about the institution's water conservation initiatives is available :**

[http://www.aec.bf.umich.edu/desguide/sid/sid\\_d.pdf](http://www.aec.bf.umich.edu/desguide/sid/sid_d.pdf)

# Stormwater Management

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## Responsible Party

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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## Criteria

### *Part 1*

Institution has adopted a stormwater management policy, plan, and/or strategies that mitigate the stormwater runoff impacts of new construction, major renovation, and other projects that increase paved surface area on campus or otherwise significantly change the campus grounds.

The policy, plan, and/or strategies address both the quantity and quality (or contamination level) of stormwater runoff.

The policy, plan, and/or strategies cover the entire campus. While the specific strategies or practices adopted may vary depending on project type and location, this credit is reserved for institutions that mitigate stormwater runoff impacts consistently during new construction. Implementing a strategy or strategies for only one new development project is not sufficient for this credit.

Policies adopted by entities of which the institution is part (e.g. state government or the university system) may count for this credit as long as the policies apply to and are followed by the institution.

### *Part 2*

Institution has adopted a stormwater management policy, plan, or strategies that mitigate the stormwater runoff impacts of ongoing campus operations.

The policy, plan, or strategies address both the quantity and quality (or contamination level) of stormwater runoff.

Though specific practices adopted may vary across the campus, the policy, plan, and/or strategies cover the entire institution. Implementing strategies for only one building or area of campus is not sufficient for this credit.

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*"---" indicates that no data was submitted for this field*

**Does the institution have a policy, plan, and/or strategies to reduce stormwater runoff from new development projects? :**

Yes

**Does the institution have a policy, plan, and/or strategies to reduce stormwater runoff from ongoing campus operations? :**

Yes

**A brief description of the institution's stormwater management initiatives :**

The Storm Water Management Program Plan (SWMPP) is prepared as a requirement of the University's National Pollutant Discharge Elimination System (NPDES) Storm Water Discharge Permit. This permit is issued to the University of Michigan (UM) by the Michigan Department Environmental Quality (MDEQ). The SWMPP describes measures, procedures and practices that UM will utilize to minimize the discharge of pollutants from campus into the storm water drainage systems and adjacent receiving waters. The SWMPP includes:

- Public education and outreach program(s) on storm water impacts
- Public involvement and participation
- Illicit discharge elimination program for the campus
- Post-construction storm water management program for new development and redevelopment projects
- Construction storm water runoff control
- Pollution prevention and good housekeeping practices for University Operations
- Total Maximum Daily Loads

**The website URL where information about the institution's stormwater management initiatives, plan or policy is available :**

<http://www.oseh.umich.edu/environment/mgtplan.shtml>

**Does the institution have a living or vegetated roof? :**

Yes

**A brief description of the institution's living or vegetated roof :**

Ross School of Business

**Does the institution have porous paving? :**

Yes

**A brief description of the institution's porous paving :**

NC Lot 78, W-16

**Does the institution have retention ponds? :**

Yes

**A brief description of the institution's retention ponds :**

North Campus Storm Water Retention Pond system, Golf practice facility

**Does the institution have stone swales? :**

Yes

**A brief description of the institution's stone swales :**

Near entrance to Arboritum

**Does the institution have vegetated swales? :**

Yes

**A brief description of the institution's vegetated swales :**

Along south campus commuter lot

**Does the institution employ any other technologies or strategies for stormwater management? :**

Yes

**A brief description of other technologies or strategies for stormwater management employed :**

Detention basins under Life Sciences Building

# Waterless Urinals

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## Responsible Party

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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### Submission Note:

See also:

<http://www.umaec.umich.edu/projects/Stadium/Michigan%20Stadium%20Project%20Profiles.pdf>

<http://www.aec.bf.umich.edu/projects/Ross/ross%20profile.pdf>

"---" indicates that no data was submitted for this field

### Does the institution use at least one waterless urinal? :

Yes

### A brief description of the technology employed :

Waterless urinals are installed in the Dana Building, at Michigan Stadium, at the Ross Business School, AEC, and various other locations on campus.

### The website URL where information about the technology is available :

<http://snre.umich.edu/greendana/conservation>

# Building Water Metering

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## Responsible Party

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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### Submission Note:

See also:

Example Bldg. Page:

<http://webapp.plant.bf.umich.edu/upe/em/bldginfo/buildings.php?bid=332>

*"---" indicates that no data was submitted for this field*

### Does the institution have building-level water consumption meters for at least one building? :

Yes

### A brief description of the water metering employed :

Energy management division monitors utility use in all buildings on campus and makes the information available on its web site on a building by building basis. Each building is independently metered.

### The percentage of building space with water metering :

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### The website URL where information about the practice is available :

<http://webapp.plant.bf.umich.edu/upe/em/bldginfo/>

# Non-Potable Water Usage

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**Responsible Party**

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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*"---" indicates that no data was submitted for this field*

**Does the institution use non-potable water (e.g., harvested rainwater or graywater) for irrigation and/or other applications? :**

Yes

**A brief description of the source of non-potable water and how it is used :**

The group Cultivating Community uses rain barrels to collect water for irrigating a campus garden.

**The percentage of irrigation water usage from recovered, reclaimed or untreated sources :**

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**The percentage of building space using water from recovered, reclaimed or untreated sources :**

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**The percentage of water used in utility plants from recovered, reclaimed or untreated sources :**

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**The website URL where information about the program, policy, or practice is available :**

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**Responsible Party**

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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*"---" indicates that no data was submitted for this field*

**Does the institution use xeriscape landscaping techniques, including the selection of drought tolerant plants? :**

Yes

**A brief description of the program or practice :**

Department of Architecture, Engineering, and Construction includes native planting in site design.

**The website URL where information about the program or practice is available :**

<http://www.aec.bf.umich.edu/sustainability/sustainability%20summaries/sustainability%20August.pdf>



# Weather-Informed Irrigation

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## Responsible Party

**Terrance Alexander**

Executive Director

Office of Campus Sustainability

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### Submission Note:

See also:

[http://www.plantops.umich.edu/grounds/grounds\\_svcs/irrigation\\_crew.php](http://www.plantops.umich.edu/grounds/grounds_svcs/irrigation_crew.php)

*"---" indicates that no data was submitted for this field*

### Does the institution use weather data or weather sensors to automatically adjust irrigation practices? :

Yes

### A brief description of how weather data or sensors are used :

Since 2006, the university has operated a computerized irrigation system, called Maxicom, across parts of North and Central campus. The system utilizes information from a campus weather station as well as on location sensors that monitors wind speed, rain, temperature and humidity to make adjustments to irrigation schedules.

### The website URL where information about the practice is available :

<http://ns.umich.edu/htdocs/releases/plainstory.php?id=8373>

# Planning, Administration & Engagement

## Coordination and Planning

This subcategory seeks to recognize colleges and universities that are institutionalizing sustainability by dedicating resources to sustainability coordination, incorporating sustainability into their primary campus plans, and developing plans to move towards sustainability. Staff and other resources help an institution organize, implement, and publicize sustainability initiatives. These resources provide the infrastructure that fosters sustainability within an institution. Strategic and physical campus plans guide an institution and its physical development. These important documents establish an institution's priorities and influence budgeting and decision making. Incorporating sustainability into these plans is an important step in making sustainability a campus priority and may help advocates implement sustainable changes. Sustainability plans and climate plans provide a road map for how to achieve sustainability goals.

<b>Credit</b>
Sustainability Coordination
Strategic Plan
Physical Campus Plan
Sustainability Plan
Climate Action Plan

# Sustainability Coordination

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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## Criteria

Institution has a sustainability committee, office, and/or coordinator that are tasked by the administration or board of trustees to advise on and implement policies and programs related to sustainability on campus.

The committee, office, and/or coordinator focus on sustainability broadly (i.e. not just one sustainability issue, such as climate change) and cover the entire institution. A committee, office, or coordinator that focuses on just one department or school within the institution does not count for this credit.

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### Submission Note:

See also:

<http://www.ocs.umich.edu/staff.shtml>

<http://sustainability.umich.edu/campus>

<http://www.graham.umich.edu>

*"---" indicates that no data was submitted for this field*

### Does the institution have a sustainability committee? :

Yes

### The charter or mission statement of the committee or a brief description of the committee's purview and activities :

Chaired by University of Michigan President Mary Sue Coleman, the Sustainability Executive Council consists of senior university leaders and sets direction and goals, reviews proposals and funding requests, and ensures that sustainability decisions and priorities are overseen at the highest level.

### Members of the committee, including affiliations :

Mary Sue Coleman (Chair)

President

Stephen R. Forrest  
Vice President for Research

Philip J. Hanlon  
Provost and Executive Vice President for Academic Affairs

E. Royster Harper  
Vice President for Student Affairs

Jerry A. May  
Vice President for Development

Lisa Rudgers  
Vice President for Global Communications and Strategic Initiatives

Ora Hirsch Pescovitz  
Executive Vice President for Medical Affairs

Timothy P. Slottow  
Executive Vice President and Chief Financial Officer

**The website URL where information about the sustainability committee is available :**

<http://sustainability.umich.edu/overview/organization>

**Does the institution have a sustainability office? :**

Yes

**A brief description of the sustainability office :**

The University of Michigan Office of Campus Sustainability serves as a focal point for sustainable campus operations. University achievements in sustainable campus operations speak to a long-standing strategic commitment. OCS welcomes everyone's involvement in helping to create a more sustainable campus for us to live on, learn from, and enjoy as we move forward on U-M's mission of building future leaders and helping to solve the world's pressing issues.

**The number of people employed in the sustainability office :**

7

**The website URL where information about the sustainability office is available :**

<http://www.ocs.umich.edu/index.shtml>

**Does the institution have a sustainability coordinator? :**

Yes

**Sustainability coordinator's name :**

Dr. Donald Scavia and Terrance Alexander

**Sustainability coordinator's position title :**

Dr. Donald Scavia, Director of the Graham Environmental Sustainability Institute and Special Counsel to the U-M President for Sustainability. Terrance Alexander, Executive Director of the Office of Campus Sustainability

**A brief description of the sustainability coordinator's position :**

Dr. Scavia is responsible for engaging the full multidisciplinary assets of the University of Michigan to develop and implement education, research, and operational goals in support of sustainable communities, ecosystems, and economies from local to global scales.

Mr. Alexander is the primary contact for campus sustainability operations, both internal to the University of Michigan and to external organization. He is responsible for developing long term strategies for campus operations.

**The website URL where information about the sustainability coordinator is available :**

<http://snre.umich.edu/scavia/>

# Strategic Plan

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

---

## Criteria

Institution's current, formally adopted strategic plan or equivalent guiding document includes sustainability at a high level. The plan covers the entire institution.

An amendment to the strategic plan may count for this credit, as long as the institution always presents the amendment with the original plan.

Neither a physical campus plan (which is covered in *PAE Credit 3: Physical Campus Plan*) nor an independent sustainability plan (which is covered in *PAE Credit 5: Sustainability Plan*) counts for this credit.

---

This credit was marked as **Not Applicable** for the following reason:

*Institution does not have a strategic plan or equivalent guiding document.*

# Physical Campus Plan

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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## Criteria

Institution's current plan for its physical campus (commonly referred to as the campus master plan) includes sustainability at a high level.

An amendment to the plan may count for this credit, as long as the institution always presents the amendment with the original plan.

Neither a strategic plan (which is covered in *PAE Credit 2: Strategic Plan*) nor an independent sustainability plan (which is covered in *PAE Credit 4: Sustainability Plan*) counts for this credit.

Plans developed at the system level are eligible for this credit. Likewise, multiple plans which together cover the institution's entire physical campus are eligible for this credit.

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### Submission Note:

We started planning in 2009. Full plan is still in progress.

"---" indicates that no data was submitted for this field

### Does the institution's physical campus plan include sustainability at a high level? :

Yes

### A brief description of how the physical campus plan or amendment includes sustainability :

Sustainability is woven into all aspects of our plan, including storm water management, energy reductions, alternative transportation, land use, open space and landscape planning, respect for woodlands and wetlands, etc., and is articulated as stewardship principles.

### The year the physical campus plan was developed or adopted :

2009

### The website URL where the physical campus plan is available :

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# Sustainability Plan

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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## Criteria

Institution has a sustainability plan that was developed with input from faculty, staff, and students. The plan includes measurable goals with corresponding strategies and timeframes to achieve the goals. The plan need not be formally adopted.

The plan covers multiple sustainability topics and issues. Plans focused exclusively on climate change, which are covered by *PAE Credit 5: Climate Plan*, are not eligible for this credit.

Strategic or master plans that cover sustainability may count for this credit if they meet the other criteria outlined above.

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"---" indicates that no data was submitted for this field

## Does the institution have a sustainability plan that meets the criteria for this credit? :

Yes

## A brief description of how multiple stakeholder groups were involved in developing the plan :

The Campus Sustainability Integrated Assessment directly involved more than 500 University of Michigan students, faculty, and staff representing 101 organizational units and 27 academic programs to advance campus sustainability by: establishing goals and targets; developing strategic frameworks; identifying research and learning opportunities; educating the campus community; and, sharing publicly what we have learned.

## A brief description of the plan's measurable goals :

GOALS ARE FOR 2025: Climate Action: Reduce greenhouse gas emissions (scopes 1&2) by 25% below 2006 levels & decrease carbon intensity of passenger trips on University of Michigan transportation options by 30% below 2006 levels. Waste Prevention: Reduce waste tonnage diverted to disposal facilities by 40% below 2006 levels. Healthy Environments: Purchase 20% of University of Michigan food in accordance with U-M Sustainable Food Purchasing Guidelines by 2025, and protect Huron River water quality by: minimizing runoff from impervious surfaces ( out perform uncontrolled surfaces by 30%), and reducing the volume of land management chemicals used on campus by 40%. Community awareness: There is no strategic goal recommendation for this theme, however, the report recommends investments in multiple actions to educate our community, track behavior, and report progress over time.

## A brief description of how progress in meeting the plan's goals is measured :



Each goal has many sub-goals and action plans attached to it. Each of these goals can and will be measured as appropriate. The report will be reviewed every 5 years and adjustments will be made if we are able to meet our goals more quickly than anticipated.

**The website URL where more information about the sustainability plan is available :**

<http://www.graham.umich.edu/pdf/CampusIA-FinalReport.pdf>

**The year the plan was developed or last updated :**

2011

# Climate Action Plan

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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## Criteria

Institution has a formal plan to mitigate its greenhouse gas emissions. The plan includes a measurable, numerical goal or goals and a corresponding date or dates by which the institution aims to achieve its goal(s). The plan has been adopted by the institution's administration.

A formal sustainability plan (i.e. a plan that has been adopted by the administration) counts for this credit if it includes climate change goals, strategies, and corresponding timeframes. Such a plan may also count toward *PAE Credit 4: Sustainability Plan*.

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*"---" indicates that no data was submitted for this field*

## Does the institution have a plan to mitigate its greenhouse gas emissions that meets the criteria for this credit? :

Yes

## A brief summary of the climate plan's long-term goals :

Climate Action Plan: Guiding Principle is "We will pursue energy efficiency and fiscally-responsible energy sourcing strategies to reduce greenhouse gas emissions toward long-term carbon neutrality. Goals for 2025 are to reduce greenhouse gas emissions (scopes 1 & 2) by 25% below 2006 levels and also to decrease carbon intensity of passenger trips on University of Michigan transportation options by 30% below 2006 levels."

## A brief summary of the climate plan's short-term goals :

We have many smaller "action" goals that will help us attain our larger goal. These include: small renovation building projects (costing less than \$10 million), high energy demand equipment replacement, cost-benefit analysis for building upgrade packages, Planet Blue Operations Teams, biomass sourcing, Syngas fuel source feasibility studies, Biomass for North Campus, Geothermal for North Campus, Geothermal pilot project at the Central Power Plant & Stadium, parking lot photovoltaics, PV rooftop demonstration, solar thermal (pre-heat) Power Center, solar thermal (DHW boost), wind turbines, renewable energy credits (RECs), natural gas turbines at central power plant, hybrid passenger vehicles, hybrid campus buses, bicycles, Ann Arbor connector/rail, bus ridership increase, optimize bus routes, AATA, University of Michigan transportation route pilot, optimize courier service, no idling policy & expanding existing alternate transportation options.

## Year the climate plan was formally adopted or approved :

2011

**An indication of whether institution has made a commitment to reduce GHG emissions a specific amount by a target year :**

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**List which emissions (scope 1, 2, and/or 3) are included in its GHG emissions commitment :**

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**The reduction level (percentage) institution has committed to :**

---

**The baseline year the institution used in its GHG emissions commitment :**

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**The baseline emissions level institution used in its GHG emissions commitment :**

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**The target year the institution specified in its GHG emissions commitment :**

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**The website URL where information about the climate plan is available :**

<http://www.graham.umich.edu/pdf/CampusIA-FinalReport.pdf>

# Diversity and Affordability

This subcategory seeks to recognize institutions that are working to advance diversity and affordability on campus. In order to build a sustainable society, diverse groups will need to be able to come together and work collaboratively to address sustainability challenges. People of color and low-income communities tend to suffer disproportionate exposure to environmental problems. This environmental injustice happens as a result of unequal and segregated communities. To achieve environmental and social justice, society must work to address discrimination and promote equality. The historical legacy and persistence of discrimination based on racial, gender, religious, and other differences makes a proactive approach to promoting a culture of inclusiveness an important component of creating an equitable society. Higher education opens doors to opportunities that can help create a more equitable world, and those doors must be open through affordable programs accessible to all regardless of race, gender, religion, socio-economic status and other differences. In addition, a diverse student body, faculty, and staff provide rich resources for learning and collaboration.

<b>Credit</b>
Diversity and Equity Coordination
Measuring Campus Diversity Culture
Support Programs for Underrepresented Groups
Support Programs for Future Faculty
Affordability and Access Programs
Gender Neutral Housing
Employee Training Opportunities
Student Training Opportunities

# Diversity and Equity Coordination

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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## Criteria

Institution has a diversity and equity committee, office, and/or coordinator that are tasked by the administration or board of trustees to advise on and implement policies, programs, and trainings related to diversity and equity on campus.

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*"---" indicates that no data was submitted for this field*

## Does the institution have a diversity and equity committee? :

Yes

## The charter or mission statement of the committee or a brief description of the committee's purview and activities :

The Council's mission is to offer “expertise and guidance to promote the pursuit and dissemination of essential knowledge and skills that foster effective participation in a diverse, multicultural, and inclusive University community.”

## Members of the committee, including job titles and affiliations :

Crisca Bierwert, Chair

Associate Director for the Center for Research on Learning and Teaching

Amer Ahmed

Associate Director of the Office of Multi-Ethnic Student Affairs

Sandra Arlinghaus

Adjunct Professor of Mathematical Geography and Population-Environment Dynamics, School of Natural Resources & Environment

Percy Bates

Professor and Director of Program for Education Opportunity, School of Education

Jack Bernard

Assistant General Counsel and Chair of the Council for Disability Concerns

Heather Byrne

Program Manager, Stephen M. Ross School of Business

Scott Campbell

Associate Professor and Coordinator of Doctoral Studies, A. Alfred Taubman College of Architecture and Urban Planning

Patricia Coleman-Burns  
Assistant Professor, School of Nursing

William Collins  
Director, Center for Educational Outreach

Cathleen Conway-Perrin  
Director of Academic Standards and Academic Opportunities, College of Literature, Science, and the Arts

Matthew Countryman  
Associate Professor of History and American Culture and Faculty Director, Arts of Citizenship Program, College of Literature, Science, and the Arts

Dilip Das  
Assistant Vice Provost, Office of the Provost and Executive Vice President for Academic Affairs

Chanel DeGuzman  
Director, Academic Diversity Initiatives, School of Public Health

Philip Deloria  
Carroll Smith-Rosenberg Collegiate Professor of History and American Culture Program and Associate Dean of Undergraduate Education, College of Literature, Science, and the Arts

Gloria Edwards  
Administrative Director of Programs for Multicultural Health, Health System

Thomas Finholt  
Senior Associate Dean of Faculty and Professor, School of Information

David Gordon  
Associate Dean for Diversity and Career Development, Medical School

Nina Grant  
Director, Multi-Ethnic Student Affairs

Deborah Greene  
Public Affairs and Media Relations Representative, Office of the Vice President for Communications

Christine Gregory  
Assistant Dean for Student Affairs, Law School

Jeffery Harrold  
Academic Advisor, College of Literature, Science, and the Arts

Graham Holland  
Professor of Dentistry, School of Dentistry and Chair, SACUA Committee for a Multicultural University

Maya Kobersy Kokinasidis  
Assistant General Counsel, Office of the Vice President and General Counsel

Catherine Lilly  
Senior Advisor to the Executive Vice President and Chief Financial Officer  
[Campus Sustainability Data Collector](#) | [AASHE](#) | [Sierra Magazine](#)

John Matlock

Associate Vice-Provost, Office of the Provost and Executive Vice President for Academic Affairs

Kelly Maxwell

Co-Director for The Program on Intergroup Relations and Adjunct Lecturer, College of Literature, Science, and the Arts

Kenneth May

Associate Professor of Dentistry and Interim Director, Multicultural Affairs, School of Dentistry

Pat McCune

Director of the Office of Graduate Student Success, Horace H. Rackham School of Graduate Studies

Henry Meares

Assistant Dean, Director of Academic Program, and Instructor in Education, School of Education

A.T. Miller

Faculty Director, Center for Global and Intercultural Study; Director of Global Intercultural Experience for Undergraduates, National Center for Institutional Diversity

Lester Monts

Senior Vice Provost for Academic Affairs; Senior Counselor to the President for the Arts, Diversity, and Undergraduate Affairs; Arthur F. Thurnau Professor of Music, School of Music

Karina Galvan Moore

Recruiting and Admissions Coordinator, School of Art & Design

Darlene Nichols

Lead Librarian for Diversity Programs and Initiatives, Hatcher Graduate Library

Margaret Noori

Director, Comprehensive Studies Program and Lecturer, College of Literature, Science, and the Arts

Robert Ortega

Associate Professor, School of Social Work

Valener Perry

Assistant Dean for Student Services, College of Pharmacy

David Schoem

Adjunct Associate Professor and Faculty Director of Michigan Community Scholars Program, College of Literature, Science, and the Arts

Amy Schulz

Associate Professor of Health Behavior and Health Education, School of Public Health and Research Associate Professor, Institute for Research on Women and Gender

Derrick Scott

Director, Multicultural Engineering Programs Office

Stuart Segal

Director, Office of Services for Students with Disabilities

Jackie Simpson  
Director, Spectrum Center

V. Thandi Sule  
Research Investigator, Center for the Education of Women

Gloria Thomas  
Director, Center for the Education of Women

Laurita Thomas  
Associate Vice President and Chief Human Resources Officer, Human Resources and Affirmative Action Office

Donica Varner  
Assistant General Counsel

Anthony Walesby  
Associate Vice Provost for Academic and Faculty Affairs and Senior Director, Office of Institutional Equity

Daniel Washington  
Associate Dean for Faculty and Multicultural Affairs and Professor of Music (Voice), School of Music, Theatre & Dance

Trey Williams  
Director of Academic Services, Gerald R. Ford School of Public Policy

Evans Young  
Assistant Dean, College of Literature, Science, and the Arts

**The website URL where information about the diversity and equity committee is available :**

<http://www.diversity.umich.edu/about/pdc.php>

**Does the institution have a diversity and equity office? :**

Yes

**A brief description of the diversity office :**

The Office of Institutional Equity serves as a vital resource and leader in promoting and furthering the University's commitment to diversity and equal opportunity for all members of its community.

**The number of people employed in the diversity office :**

6

**The website URL where information about the diversity and equity office is available :**

<http://www.hr.umich.edu/oie/>

**Does the institution have a diversity and equity coordinator? :**

Yes



**Diversity coordinator's name :**

Anthony Walesby

**Diversity coordinator's position title :**

Associate Vice Provost for Academic & Faculty Affairs & Senior Director for Institutional Equity

**A brief description of the diversity coordinator's position :**

Anthony is responsible for ensuring that the University of Michigan's working and learning environment is supportive, welcoming, equitable, diverse, and free from discrimination and harassment. He develops, implements, and monitors programs promoting and ensuring equal access, equity and compliance with federal and state civil rights laws and University of Michigan policies. He maintains liaison relationships with affinity groups on and off campus, conducts and supervises staff in the identification and resolution of discrimination and harassment complaints filed by University faculty, staff, students and members of the public. This is the top affirmative action/diversity position.

**The website URL where information about the diversity and equity coordinator is available :**

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# Measuring Campus Diversity Culture

## Criteria

Institution assesses attitudes about diversity and equity on campus and uses the results to guide policy, programs, and initiatives.

Institution may measure its culture of diversity and equity using one assessment for the entire institution or using separate assessments that taken together cover the entire institution.

Assessments conducted during the previous five years are eligible for this credit.

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This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.

# Support Programs for Underrepresented Groups

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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## Criteria

Institution has mentoring, counseling, peer support, affinity groups, academic support programs, or other programs in place to support underrepresented groups on campus.

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*"---" indicates that no data was submitted for this field*

## **Does the institution have mentoring, counseling, peer support, affinity groups, academic support programs, or other programs in place to support underrepresented groups on campus? :**

Yes

## **A brief description of the programs sponsored by the institution to support underrepresented groups within the student body :**

Numerous University of Michigan programs, centers, units, and associations support and advance diversity within the University community and beyond. Several, such as the Center for the Education of Woman (CEW) and the Center for Research on Learning and Teaching (CRLT), were among the first of their type in the country, and now serve as national models. These programs can be found at the website indicated and are available to students, faculty, and staff.

## **A brief description of the programs sponsored by the institution to support underrepresented groups within the faculty :**

Many of the programs noted above are available to faculty - examples include the Women of Color Taskforce, Spectrum Center, President's Advisory Commission on Women, and ADVANCE.

## **A brief description of the programs sponsored by the institution to support underrepresented groups within the staff :**

Many of the offices/programs listed above are available to staff as well.

## **The website URL where more information about the programs in each of the three categories is available :**

<http://www.diversity.umich.edu/programs/>

# Support Programs for Future Faculty

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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## Criteria

Institution administers and/or participates in a program or programs to help build a diverse faculty throughout higher education.

Such programs could take any of the following forms:

- Teaching fellowships or other programs to support terminal degree students from underrepresented groups in gaining teaching experience. (The terminal degree students may be enrolled at another institution).
  - Mentoring, financial, and/or other support programs to prepare and encourage undergraduate or other non-terminal degree students to pursue further education and careers as faculty members.
  - Mentoring, financial, and/or other support programs for doctoral and post-doctoral students from underrepresented groups.
- 

## Submission Note:

See also:

[http://sitemaker.umich.edu/advance/recruitment\\_\\_stride\\_](http://sitemaker.umich.edu/advance/recruitment__stride_)

"---" indicates that no data was submitted for this field

## Does the institution administer and/or participate in programs that meet the criteria for this credit? :

Yes

## A brief description of the institution's programs that help increase the diversity of higher education faculty :

The STRIDE Committee provides information and advice about practices that will maximize the likelihood that diverse, well-qualified candidates for faculty positions will be identified, and, if selected for offers, recruited, retained, and promoted at the University of Michigan. The committee leads workshops for faculty and administrators involved in hiring. It also works with departments by meeting with chairs, faculty search committees, and other department members involved with recruitment and retention.

There is also the University Partnerships for Faculty Diversity. Beginning in 2011, the University of Michigan joined in a collaborative partnership with the University of California to offer postdoctoral fellowship opportunities at the University of Michigan. In this program, the University of Michigan offers postdoctoral research fellowships in science, technology, engineering, mathematics (STEM) and social, behavioral, and economics (SBE) fields, coupled with faculty mentoring, professional development and academic networking opportunities.

**The website URL where more information about the program(s) is available :**

<http://sitemaker.umich.edu/um-postdocs/home>

# Affordability and Access Programs

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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## Criteria

Institution has policies and programs in place to make it accessible and affordable to low-income students. Such policies and programs may include, but are not limited to, the following:

- Policies and programs to minimize the cost of attendance for low-income students
- Programs to equip the institution's faculty and staff to better serve students from low-income backgrounds
- Programs to prepare students from low-income backgrounds for higher education such as the federal TRIO programs
- Scholarships for low-income students
- Programs to guide parents of low-income students through the higher education experience
- Targeted outreach to recruit students from low-income backgrounds
- Other admissions policies or programs
- Other financial aid policies or programs

Institutions are not required to have programs or policies in each of the above areas in order to earn this credit. They may pursue the policies and programs that are appropriate for their context.

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### Submission Note:

See also:

<http://www.admissions.umich.edu/drupal/parents>

<http://www.finaid.umich.edu/Home/TypesofAid/ScholarshipsGrants.aspx>

<http://www.ceo.umich.edu/>

[https://studentemployment.umich.edu/JobX\\_Home.aspx](https://studentemployment.umich.edu/JobX_Home.aspx)

<http://www.finaid.umich.edu/Home/TypesofAid/ScholarshipsandGrants/OFAScholarshipListing.aspx#m>

"---" indicates that no data was submitted for this field

**Does the institution have policies and programs in place to make it accessible and affordable to low-income students?**

:

Yes

**A brief description of the institution's participation in federal TRIO programs :**

University of Michigan students participating in the U.S. Department of Education TRIO programs are awarded the Michigan Experience Scholarship

**A brief description of the institution's policies and programs to minimize the cost of attendance for low-income students? :**

Work study jobs are only available to University of Michigan undergraduate and graduate students who have applied for financial aid and been awarded a Federal or State of Michigan Work-Study award.

**A brief description of the institution's programs to equip the institution's faculty and staff to better serve students from low-income backgrounds :**

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**A brief description of the institution's programs to prepare students from low-income backgrounds for higher education :**

Center for Educational Outreach - The CEO is a University initiative that seeks to ensure academic excellence for all K-12 schoolchildren in the state of Michigan. We focus on continuing the University of Michigan's commitment to educational outreach and to promoting collaboration between schools, organizations, and the community.

**A brief description of the institution's scholarships for low-income students :**

When a student is admitted to the university, they are considered automatically for most of the scholarships and grants administered by the Office of Financial Aid. Separate applications are not required. Students wanting to be considered for need-based as well as non-need-based university scholarships and grants, can also file a Free Application for Federal Student Aid (FAFSA) and a CSS/Financial Aid PROFILE.

The University of Michigan also encourages students to explore other funding options including their University of Michigan school or college, private organizations, alumni clubs, and state programs.

**A brief description of the institution's programs to guide parents of low-income students through the higher education experience :**

MParents tries to provide all parents with sufficient information to make them feel more comfortable with their child attending Michigan. They also host a Parents & Family Weekend, and offer a parent newsletter. The Office of Undergraduate Admissions offers help on the application process, financial aid and setting up campus visits as well.

**A brief description of the institution's targeted outreach to recruit students from low-income backgrounds :**

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**A brief description of the institution's other admissions policies and programs :**

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**A brief description of the institution's other financial aid policies or programs :**

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**A brief description of the institution's other policies and programs not covered above :**

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**The website URL where information about programs in each of the areas listed above is available :**

<http://parents.umich.edu/index.php>



# Gender Neutral Housing

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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*"---" indicates that no data was submitted for this field*

**Does the institution offer housing options to accommodate the special needs of transgender and transitioning students (either as a matter of policy or as standard practice)? :**

Yes

**A brief description of the program, policy, or practice :**

University Housing works to provide a safe, inclusive, comfortable and supportive living experience for all students living in Michigan's residential facilities. We offer gender-neutral housing for transgender and gender non-conforming individuals wanting to room with students of any gender.

**The website URL where information about the program, policy, or practice is available :**

<http://housing.umich.edu/applications/gender-neutral>

# Employee Training Opportunities

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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*"---" indicates that no data was submitted for this field*

### **Does the institution make cultural competence trainings and activities available to all employees? :**

Yes

### **A brief description of the cultural competence trainings and activities :**

The Office of Institutional Equity offers educational and training packages, presentations and workshops, to foster and maintain a welcoming, supportive, inclusive and diverse working and learning environment. All of their programs are customizable.

Such topics covered include:

Campus Commitment (all forms of impermissible Discrimination and Harassment)

Intercultural Communication

Business Case for Diversity

Conducting a fair and equitable search process

Ensuring compliance with the Americans with Disabilities Act

Leadership Responsibilities Related to Discrimination and Harassment

The Office of Institutional Equity staff are also available to guest lecture, speak at conferences, and participate in other opportunities.

### **The website URL where information about the trainings and activities are available :**

<http://hr.umich.edu/oie/education/index.html>

# Student Training Opportunities

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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### Submission Note:

See also:

<http://studentorgs.umich.edu/leadership/ils>

*"---" indicates that no data was submitted for this field*

### Does the institution make cultural competence trainings and activities available to all students? :

Yes

### A brief description of the cultural competence trainings and activities :

The Program on Intergroup Relations' co-curricular programs are developed for students to learn about social inequalities and social justice outside the classroom. The CommonGround Workshop Program is one way that student organizations, residence halls, Greek life, classes, and other campus communities can request workshops on topics such as (but not limited to) racism, sexism, classism, or heterosexism. Workshops are designed around a 1.5 to 3 hour time frame and engage participants in dialogues about these complex issues within society. The goal is to increase awareness and knowledge on issues of social justice, identity, diversity, and intergroup relations.

The University of Michigan also offers an Intercultural Leadership Seminar during spring break which focuses on exploring culture & identity, experiencing intercultural communication and conflict, leadership development through intercultural competence, leading with passion; putting it in action, and transforming the experience

### The website URL where information about the trainings and activities are available :

<http://www.igr.umich.edu/>

# Human Resources

This subcategory seeks to recognize institutions that have incorporated sustainability into their human resources programs and policies. This includes recognition for treating and remunerating their workers responsibly and fairly. An institution's people define its character and capacity to perform; and so, an institution's achievements can only be as strong as its community. An institution can bolster the strength of its community by making fair and responsible investments in its human capital. Such investments include offering benefits, wages, and other assistance that serve to respectfully and ethically compensate workers. Investment in human resources is integral to the achievement of a healthy and sustainable balance between human capital, natural capital, and financial capital.

In addition, this subcategory recognizes faculty and staff training and development programs in sustainability. Faculty and staff members' daily decisions impact an institution's sustainability performance. Equipping faculty and staff with the tools, knowledge, and motivation to adopt behavior changes that promote sustainability is an essential activity of a sustainable campus.

<b>Credit</b>
Sustainable Compensation
Employee Satisfaction Evaluation
Staff Professional Development in Sustainability
Sustainability in New Employee Orientation
Employee Sustainability Educators Program
Childcare
Employee Wellness Program
Socially Responsible Retirement Plan

# Sustainable Compensation

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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## Criteria

Institution evaluates, and updates as appropriate, its wages and benefits policies and its guidelines for contractors operating on campus to ensure that total compensation (wages plus benefits) for all on-campus workers is sufficient to enable these employees to meet their basic needs, as defined by the institution. This evaluation is completed at least once every three years.

Student workers are not covered by this credit.

While wages and total compensation set in the following ways may constitute sustainable compensation, institutions should conduct a basic needs assessment to ensure that the total compensation is adequate before claiming points for this credit:

- Paying prevailing wages for job type or classification
- Paying average or above average wages for the region or city where the institution is located
- Paying minimum wages or a set amount above the minimum wage

Policies and practices adopted by entities of which the institution is part (e.g. state government or the university system) may count for this credit as long as the policies apply to and are followed by the institution.

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*"---" indicates that no data was submitted for this field*

## **Total number of employees working on campus (including contractors) :**

40721

## **Number of employees (including contractors) that the institution ensures earn sustainable compensation :**

40721

## **A brief description of how the institution ensures that its lowest-paid workers (including contractors, if applicable) receive sustainable compensation :**

As part of the University-wide Career Family Classification System units may develop pay ranges that support their compensation philosophy using labor market referenced data available through M-Pathways. The University expects units to ensure that all regular staff are paid at or above the minimum full-time rate of \$21,650 per year or \$10.41 per hour.

The Federal minimum wage is \$7.25 per hour for covered non exempt employees. The Fair Labor Standards Act (FLSA) establishes the minimum wage, overtime pay, record-keeping and child labor standards affecting workers in the private sector and in Federal, State and local governments. Where state law requires a higher minimum wage rate, the higher standard applies. Minimum wage legislation passed

in the state of Michigan established the minimum wage rate to \$7.40/hour effective July 1, 2008.

**The most recent year total compensation for the institution's lowest-paid workers (including contractors, if applicable) was evaluated to ensure that it was sustainable :**

2010

**The website URL where information about the institution's compensation policies and practices is available :**

<http://hr.umich.edu/compclass/schedules/index.html>

# Employee Satisfaction Evaluation

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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## Criteria

Institution conducts a survey or other evaluation that allows for anonymous feedback at least once every five years to measure employee satisfaction. The survey or equivalent may be conducted institution-wide or may be done by individual departments as long as all departments are covered by a survey. The institution has a mechanism in place to address issues raised by the evaluation.

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*"---" indicates that no data was submitted for this field*

## Does the institution evaluate employee satisfaction in a way that meets the criteria for this credit? :

No

## A brief description of the institution's methodology for evaluating employee satisfaction :

At the University of Michigan, this process is decentralized and handled by individual departments, but resources are available through the Human Resources office to assist departments in this area. Both Business & Finance & UM Health System use this information to perform regular surveying, and these two entities cover more than half of the UM employee population.

The office of Human Resources provides helpful information to individual departments wanting to conduct employee satisfaction surveys.

## The year the employee satisfaction evaluation was last administered :

2010

## The website URL where information about the institution's employee satisfaction evaluation process is available :

<http://www.hr.umich.edu/greatplaces/stepbystep.html>

# Staff Professional Development in Sustainability

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## Responsible Party

Donald Scavia

Director

Graham Environmental Sustainability Institute

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## Criteria

Institution makes available training and/or other professional development opportunities in sustainability to all staff at least once per year.

Separate training opportunities for each department would count for this credit, as long as each staff member has an opportunity to learn about sustainability at least once per year.

It is not necessary that each staff member attend such trainings; the credit is based on making training *available* to all staff.

This credit applies to staff members only; it does not include faculty members.

The following training opportunities are not sufficient for this credit:

- Specialized training for a small group of staff
  - The opportunity to participate in an institutional sustainability committee or group
- 

## Submission Note:

See also:

<http://sustainability.umich.edu/events>

<http://sustainability.umich.edu/content/sustainable-computing>

"---" indicates that no data was submitted for this field

**Does the institution make training and professional development opportunities in sustainability available to all staff? :**

Yes

**A brief description of the sustainability trainings and professional development opportunities available to staff :**

There are many opportunities for University of Michigan staff to learn about sustainability practices. An example of an opportunity available is My Planet Blue. This was created for University of Michigan faculty, staff and students to come together and help save energy and improve the environment in small but meaningful ways. Together, these small changes can make profound impacts on budgets, on waste, and ultimately, on our planet. Each month, they send an email to alert faculty and staff who sign up of a few additional changes they can adopt to make their work life more sustainable. In the meantime, there is a list of tasks available online that encourages



participants to complete as many tasks as possible. They can then track their progress and learn a great deal along the way.

The Planet Blue web site also lists numerous events and trainings that are available to all campus faculty, staff, and students that range from speakers to conferences to opportunities to participate in or volunteer for various sustainability campaigns.

We also have a sustainable computing team, who offers their services to units and IT departments on campus to help raise awareness about the impact of computing on the environment. They provide tools to help U-M faculty, staff, students, and IT professionals be better environmental stewards of our computing resources, with the goal of ultimately changing the culture of the University to always consider the environment when making decisions about computing.

**The website URL where information about staff training opportunities in sustainability are available :**

<http://www.planetblue.umich.edu/getinvolved.php>

# Sustainability in New Employee Orientation

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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## Criteria

Institution covers sustainability topics in new employee orientation and/or in outreach and guidance materials distributed to new employees, including faculty and staff.

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*"---" indicates that no data was submitted for this field*

### **Does the institution cover sustainability topics in new employee orientation and/or in outreach and guidance materials distributed to new employees, including faculty and staff? :**

Yes

### **A brief description of how sustainability is included in new employee orientation :**

Before new employees step onto campus, messages about our commitment to sustainability are included in email communications that are part of the new employee on-boarding process. This includes email messages to all new faculty and staff (regular and temporary employees) as well as graduate student employees with a link to the Plant Blue website and a call to action to get involved in the effort. The outreach messages read as follows:

#### Planet Blue

Sustaining the long-term health and well-being of our planet requires effort from local to global scales. U-M is coordinating and focusing its expertise and resources to spur global progress while also working locally to set the standard for excellence in achieving a green campus.

Once on campus, sustainability is also addressed during new employee orientation sessions. Specifically, orientation leaders emphasize U-M's efforts during their presentation by showing a slide that highlights the U-M Sustainability initiative and our Planet Blue website.

### **The website URL for the information about sustainability in new employee orientation :**

<http://sustainability.umich.edu/involved/faculty-staff>

# Employee Sustainability Educators Program

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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## Criteria

Institution administers or oversees an ongoing faculty/staff peer-to-peer sustainability outreach and education program. In the program, employee sustainability educators are formally designated and receive formal training or participate in an institution-sponsored orientation. The institution offers financial or other support to the program.

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*"---" indicates that no data was submitted for this field*

## Total number of people employed by the institution :

40721

## Program name (1st program) :

VOICES of the Staff Environmental Stewardship Team

## Number of employees served by the program (1st program) :

40721

## A brief description of how the employee educators are selected (1st program) :

Volunteer based selection, solicited through individual nominations from staff members and nominations from Human Resource Communications Group. Term is 2 years; half the group turns over every year.

## A brief description of the formal training that the employee educators receive (1st program) :

Training is provided to network members so they may participate fully and effectively in the process. Competencies required: building relationships, interpersonal skills, leadership, achievement orientation, quality service, creative problem solving, strategic thinking, commitment to the mission, development of self and others, communication skills.

## A brief description of the staff and/or other financial support the institution provides to the program (1st program) :

The university allocates considerable funding and staff support to the Voices of the Staff. This includes funding for staff, events, and materials. The Voices of the Staff Program has a \$94,711 budget, and the Provost has also set aside \$150,000 per year to support the Planet Blue Ambassadors program.

**The website URL where information about the program is available (1st program) :**

<http://hr.umich.edu/voices/teams/environmental/index.html>

**Program name (2nd program) :**

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**Number of employees served by the program (2nd program) :**

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**A brief description of how the employee educators are selected (2nd program) :**

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**A brief description of the formal training that the employee educators receive (2nd program) :**

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**A brief description of the financial or other support the institution provides to the program (2nd program) :**

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**The website URL where information about the program is available (2nd program) :**

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**Program name(s) (all other programs) :**

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**Number of employees served by the program(s) (all other programs) :**

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**A brief description of how the employee educators are selected (all other programs) :**

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**A brief description of the formal training that the employee educators receive (all other programs) :**

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**A brief description of the staff and/or other financial support the institution provides to the program(s) (all other programs) :**

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**The website URL where information about the program(s) is available (all other programs) :**

---

**Responsible Party**

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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*"---" indicates that no data was submitted for this field*

**Does the institution have an on-site child care facility, partner with a local facility, and/or provide subsidies or financial support to help meet the child care needs of students, faculty, and staff? :**

Yes

**A brief description of the child care program, policy, or practice :**

The Campus Child Care Homes Network serves faculty, staff, and students who need child care in the greater Ann Arbor area. These independent providers are state-licensed to provide care in their own homes, offer some priority/flexibility to University of Michigan families, and work toward early childhood training/educational goals and possible accreditation through the National Association for Family Child Care (NAFCC). In return, the University of Michigan offers provider training, support, and resources to enhance quality in the child care programs.

**The website URL where information about the program, policy, or practice is available :**

<http://hr.umich.edu/worklife/childcare/index.html>

# Employee Wellness Program

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## Responsible Party

Donald Scavia

Director

Graham Environmental Sustainability Institute

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*"---" indicates that no data was submitted for this field*

**Does the institution have an employee assistance or wellness program that provides counseling, referral, and well-being services to employees? :**

Yes

**A brief description of the employee wellness program, policy, or practice :**

The University of Michigan offers wellness and health risk reduction services for U-M faculty & staff, dependents, and retirees, as well as for the general public and Michigan businesses. Our programs include: Physical Activity, Nutrition, Weight Management, Mental & Emotional Health, Ergonomics Awareness, Tobacco Treatment, Alcohol Management, MHealthy Rewards, Occupational Health Clinics, Disease Management.

**The website URL where information about the program, policy, or practice is available :**

<http://www.hr.umich.edu/mhealthy/>

# Socially Responsible Retirement Plan

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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*"---" indicates that no data was submitted for this field*

### **Does the institution offer a socially responsible investment option for retirement plans? :**

Yes

### **A brief description of the socially responsible investment option for retirement plans :**

Through the University of Michigan's TIAA CREF retirement plan option, employees are at liberty to invest in the Social Choice Equity Fund (TRSCX), which primarily invests in companies that are screened to meet or exceed certain environmental, social and governance criteria. The evaluation process seeks out companies that are: strong stewards of the environment; devoted to serving local communities; committed to higher labor standards; dedicated to producing high-quality and safe products; and those managed in an exemplary or ethical manner.

### **The website URL where information about the program, policy, or practice is available :**

<http://enroll.tiaa-cref.org/umich/>

# Investment

This subcategory seeks to recognize institutions that make investment decisions that promote sustainability. Most institutions invest some of their assets in order to generate income. Together, colleges and universities invest hundreds of billions of dollars. Schools with transparent and democratic investment processes promote accountability and engagement by the campus and community. Furthermore, institutions can support sustainability by investing in companies and funds that, in addition to providing a strong rate of return, are committed to social and environmental responsibility. Investing in these industries also supports the development of sustainable products and services. Finally, campuses can engage with the businesses in which they are invested in order to promote sustainable practices.

Throughout this subcategory, the term “sustainable investment” is inclusive of socially responsible, environmentally responsible, ethical, impact, and mission-related investment.

<b>Credit</b>
Committee on Investor Responsibility
Shareholder Advocacy
Positive Sustainability Investments
Student-Managed Sustainable Investment Fund
Sustainable Investment Policy
Investment Disclosure



# Committee on Investor Responsibility

## Criteria

Institution has a formally established and active CIR or similar body that makes recommendations to the Board of Trustees on socially and environmentally responsible investment opportunities across asset classes, including proxy voting. The body has multi-stakeholder representation, which means its membership includes faculty, staff, and students and may include alumni, trustees, and/or other parties.

Institutions for which investments are handled by the university system and/or a separate foundation of the institution should report on the investment policies and activities of those entities.

A general committee that oversees the institution's investments does not count for this credit unless social and environmental responsibility is an explicit part of its mission and/or agenda.

This credit applies to institutions with endowments of US \$1 million or larger. Institutions with endowments totaling less than US \$1 million may choose to omit this credit.

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This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.

# Shareholder Advocacy

## Criteria

There are two possible approaches to earning this credit.

1) Institution filed or co-filed one or more shareholder resolutions that address sustainability or submitted one or more letters about social or environmental responsibility to a company in which it holds investments, during the previous three years.

and/or

2) Institution has conducted a negative screening of its entire investment pool within the last three years. This could take the form of prohibiting investment in an industry (e.g. tobacco or weapons manufacturing) or participating in a divestment effort (e.g. companies operating in South Africa during apartheid). The negative screen includes selling all but \$2,000 or less of the affected direct holdings and writing a letter to all fund managers encouraging them to remove affected holdings as well.

Institutions for which investments are handled by the university system and/or a separate foundation of the institution should report on the shareholder advocacy activities of those entities.

---

This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.

# Positive Sustainability Investments

## Criteria

Institution invests in any of the following:

- Sustainable industries, such as renewable energy or sustainable forestry
- Businesses selected for exemplary sustainability performances
- Sustainability investment funds, such as a renewable energy investment fund
- Community development financial institutions (CDFI)
- Socially responsible mutual funds with positive screens.

Investment in a socially responsible mutual fund with only negative screens (i.e. one that excludes egregious offenders or certain industries, such as tobacco or weapons manufacturing) does not count for this credit.

Institutions for which investments are handled by the university system and/or a separate foundation of the institution should report on the investment policies and activities of those entities.

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This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.

# Student-Managed Sustainable Investment Fund

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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*"---" indicates that no data was submitted for this field*

**Does the institution have a student-managed sustainable investment fund through which students are able to develop socially and/or environmentally responsible investment skills and experience with governance? :**

Yes

### **A brief description of the student-managed sustainable investment fund :**

The Social Venture Fund (SVF) is an impact investment fund that invests in sustainable, innovative, for-profit companies that place the generation of a significant social impact at the heart of their mission and way of doing business. SVF aims to support the expansion and proliferation of enterprises that respond to societal needs that would otherwise not be met as effectively or at all by other market players. The fund is organized into five smaller portfolios - Education, Environment, Finance, Food & Nutrition, Health and Urban Revitalization – and is currently focused geographically on Detroit and Southeast Michigan.

### **The website URL where information about the fund is available :**

[http://www.zli.bus.umich.edu/wvf/svf\\_overview.asp](http://www.zli.bus.umich.edu/wvf/svf_overview.asp)

## Sustainable Investment Policy

This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.

## Investment Disclosure

This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.

# Public Engagement

This subcategory seeks to recognize institutions that give back to their communities through community service, engagement, and partnerships. Volunteerism and the sense of compassion that community service helps develop are fundamental to achieving sustainability. From tutoring children to removing invasive species to volunteering at a food bank, students, faculty, and staff can make tangible contributions that address sustainability challenges through community service. Community engagement can help students develop leadership skills while deepening their understandings of practical, real-world problems. Institutions can contribute to their communities by harnessing their financial and academic resources to address community needs. For example, faculty research and courses can focus on how to address community problems. In addition, colleges and universities can offer incentives for their graduates to pursue careers that fill community needs, and schools can use their prominence to advocate for sustainability outside of their institutions.

<b>Credit</b>
Community Sustainability Partnerships
Inter-Campus Collaboration on Sustainability
Sustainability in Continuing Education
Community Service Participation
Community Service Hours
Sustainability Policy Advocacy
Trademark Licensing
Graduation Pledge
Community Service on Transcripts
Farmers' Market

# Community Sustainability Partnerships

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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## Criteria

Institution has formal partnership(s) with the local community, including school districts, government agencies, non-profit organizations, or other entities, to work together to advance sustainability within the community.

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### Submission Note:

See also:

<http://www.graham.umich.edu/ia/detroit.php>

[http://pts.umich.edu/taking\\_the\\_bus/mride.php](http://pts.umich.edu/taking_the_bus/mride.php)

Note: These are three examples, but there are many programs at U-M in which we partner with the local community.

"---" indicates that no data was submitted for this field

## Does the institution participate in community sustainability partnerships that meet the criteria for this credit? :

Yes

## A brief description of the institution's sustainability partnerships with the local community :

The Graham Environmental Sustainability Institute and Data Driven Detroit have partnered to initiate the Detroit Sustainability Indicators Data Driven Detroit Project. The project has two goals:

1. To gather and assess data on relevant sustainability related topics (environmental, economic and social), with the intent of mapping these data and making the findings available to the public; and
2. To create a sustainability index for Detroit that will help inform policy and decision making and serve as a model for other urban areas working on sustainable redevelopment.

The Teaching and Inspiring Environmental Leadership Program's mission is to teach environmental principles and demonstrate how to uphold them, using the Samuel T. Dana Building as an educational center and example.

The University of Michigan's School of Natural Resources and the Environment created the Teaching and Inspiring Environmental Stewardship (TIES) Program to showcase the University's greenest building, while simultaneously teaching the community about sustainability and green design. The TIES program reaches out to local schools, businesses, and other organizations to encourage them to



learn about green alternatives that reduce humans' impacts on the environment by touring the Gold LEED-certified Samuel T. Dana Building.

MRIDE: Active University of Michigan-Ann Arbor students, faculty and staff are able to ride AATA fixed-route bus service without paying a fare. This benefit is a result of a five-year agreement between the University of Michigan and AATA, valued at \$1.8 million annually.

The historic agreement was reached after many years of cooperation between the University and AATA, followed by nearly a year of discussions, planning and negotiations. The negotiating team included representatives from AATA management, U-M management and an AFSCME union steward who is also a U-M transit coach operator.

**The website URL where information about sustainability partnerships is available :**

<http://www.snre.umich.edu/ties>

# Inter-Campus Collaboration on Sustainability

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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## Criteria

Institution collaborates with other colleges and universities to support and help build the campus sustainability community.

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### Submission Note:

See also:

<http://energy.umich.edu/news-events/press-releases/cerc-release/>

<http://graham.umich.edu/centers/glisa.php>

*"---" indicates that no data was submitted for this field*

## Does the institution collaborate with other colleges and universities to support and help build the campus sustainability community? :

Yes

## A brief summary of papers, guides, presentations, and other resources the institution has developed to share their sustainability experience with other institutions :

Links to many publications can be found at:

<http://www.graham.umich.edu/research/publications.php>

## The names of local, state, regional, national, and other campus sustainability organizations or consortia in which the institution participates and/or is a member :

Association for Environmental Studies & Sciences; Association for the Advancement of Sustainability in Higher Education; Big Ten Sustainability Working Group

## A brief summary of additional ways the institution collaborates with other campuses to advance sustainability :

[Campus Sustainability Data Collector](#) | [AASHE](#) | [Sierra Magazine](#)

Snapshot | Page 194

We participate in a number of partnerships. Here are two examples:

**GLISA:** Accounting for 84% of North America's surface freshwater, the Great Lakes are a unique and important ecosystem. To better assess the effects of climate change in this critically important region, we have partnered with Michigan State University and The Ohio State University to establish the Great Lakes Integrated Regional Integrated Sciences and Assessment Center (GLISA). With funding from NOAA, GLISA aims to contribute to the long-term sustainability of the region in the face of a changing climate by improving the utility of scientific knowledge to decision making.

**Michigan Memorial Phoenix Energy Institute:** Signed a 5-year work plan for the U.S. Clean Energy Research Center-Clean Vehicle Consortium.

**The website URL where information about cross-campus collaboration is available :**

<http://www.graham.umich.edu/research/publications.php>

# Sustainability in Continuing Education

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## Responsible Party

Donald Scavia

Director

Graham Environmental Sustainability Institute

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## Criteria

### Part 1

Institution offers continuing education courses that are focused on or related to sustainability.

Courses that can be taken for academic credit are not included in this credit. They are covered by the *Curriculum* subcategory.

### Part 2

Institution has a sustainability-related certificate program through its continuing education or extension department.

---

#### Submission Note:

See also:

[http://sitemaker.umich.edu/cohse/continuing\\_ed](http://sitemaker.umich.edu/cohse/continuing_ed)

[http://www.sph.umich.edu/exec\\_ed/](http://www.sph.umich.edu/exec_ed/)

"---" indicates that no data was submitted for this field

**Does the institution offer continuing education courses that are focused on or related to sustainability? :**

Yes

**Number of sustainability continuing education courses offered :**

14

**Total number of continuing education courses offered :**

148

**Does the institution have a sustainability-related certificate program through its continuing education or extension department? :**

No

**A brief description of the certificate program :**

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**Year the certificate program was created :**

---

**The website URL where information about sustainability in continuing education courses is available :**

[http://sitemaker.umich.edu/cohse/continuing\\_ed](http://sitemaker.umich.edu/cohse/continuing_ed)

# Community Service Participation

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

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## Criteria

Institution engages its student body in community service, as measured by the percentage of students who participate in community service.

Institutions may exclude non-credit, continuing education, and/or part-time students from this credit.

---

### Submission Note:

Because there is not a university-wide requirement for volunteer service at the university, and students do not specifically report their service, our numbers here are estimates based on volunteer oriented student groups. From this information, we can confirm approximately 18,073 participate. However, the number of students who volunteer on their own time or are unreported is likely MUCH greater.

*"---" indicates that no data was submitted for this field*

### The number of students engaged in community service :

18073

### Total number of students, which may exclude part-time, continuing education and/or non-credit students :

41924

### The website URL where information about the institution's community service initiatives is available :

<http://studentorgs.umich.edu/maize>

# Community Service Hours

---

## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

---

## Criteria

Institution engages students in community service, as measured by average hours contributed per full-time student per year.

Institutions may exclude non-credit, continuing education, and/or part-time students from this credit.

---

## Submission Note:

We are unable to provide an exact number for this credit. By using an estimate based on the 18,073 students that participate in volunteer organizations on campus, we estimate around 144,584 hours can be accounted for. Again, we expect the actual number is likely much greater.

*"---" indicates that no data was submitted for this field*

## The number of student community service hours contributed during a one-year period :

144584

## Total number of students, which may exclude part-time, continuing education and/or non-credit students :

41924

## The website URL where information about the institution's community service initiatives is available :

---

# Sustainability Policy Advocacy

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## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

---

## Criteria

Institution advocates for federal, state, or local public policies that support campus sustainability or that otherwise advance sustainability.

The policy advocacy must be done by the institution, not by students or a student group.

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*"---" indicates that no data was submitted for this field*

## **Has the institution advocated for federal, state, and/or local public policies that support campus sustainability or that otherwise advance sustainability? :**

Yes

## **A brief description of how the institution engages in public policy advocacy for sustainability, including the issues, bills, and ordinances for or against which the institution has advocated :**

The University of Michigan's Office of the Vice President for Government Relations and Office of the Vice President for Research have a Washington D.C. office responsible for advocacy efforts with the federal government. As a major research institution, we are engaged with policy makers on many sustainability-related issues. These efforts include working with the Michigan delegation, appropriations subcommittees, and authorization committees to advocate important sustainability research funding streams such as energy innovation hubs, energy frontier research centers, funding for the Department of Energy's office of science, and ARPA-E and others. U-M's advocacy efforts at the federal level also involve working through many different higher education associations and organizations, such as the Association of American Universities, that share our desire to see sustainability advance in Washington and throughout the country.

## **The website URL where information about the institution's advocacy efforts are available :**

---



## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

---

## Criteria

### Part 1

Institution is a member of the Fair Labor Association or Worker Rights Consortium.

### Part 2

Institution has signed on to participate in the Designated Suppliers Program.

---

## Submission Note:

See also:

<http://www.fairlabor.org/fla/go.asp?u=/pub/mp&Page=CollegesUniversities>

<http://www.workersrights.org/about/as.asp>

Notes: The University's Advisory Committee on Labor Standards and Human Resources carefully reviewed the Designated Suppliers Program proposal when it was introduced by Students Organized for Labor and Economic Equality (SOLE) in late 2005. Since then, the committee has continued to study the proposal and recommended in April 2006 and again on April 16, 2007 that the University of Michigan not endorse the DSP idea because of issues regarding its overall approach and basic questions about its feasibility. The University is concerned that moving to the DSP's highly regulated, rules-based system is not workable and could lead to unintended and negative consequences for apparel workers, such as the closing of factories, loss of jobs for apparel workers and disruption of positive working relationships. In accepting the ACLSHR's recommendation regarding the DSP in 2006, President Mary Sue Coleman charged the committee to monitor the development of the DSP idea and to enhance the effectiveness of U-M's code of conduct by making adherence to the code more integral to the licensing process.

"---" indicates that no data was submitted for this field

**Is the institution a member of the Worker Rights Consortium? :**

Yes

**Is the institution a member of the Fair Labor Association? :**

Yes

**Has the institution expressed intention to participate in the Designated Suppliers Program? :**

No

**The website URL where information about the institution's participation in the WRC, FLA, and/or DSP is available :**

[http://www.vpcomm.umich.edu/pa/key/sup\\_faq.html](http://www.vpcomm.umich.edu/pa/key/sup_faq.html)

# Graduation Pledge

---

## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

---

*"---" indicates that no data was submitted for this field*

**Does the institution administer a graduation pledge through which students pledge to consider social and environmental responsibility in future job and other decisions? :**

Yes

**A brief description of the graduation pledge program :**

Social Responsibility Pledge for graduating students: "I pledge to actively work toward a more socially and environmentally responsible world. I will continue to honor these words long after graduation in my career, relationships, and all other pursuits, and encourage others to embrace this message as well."

**The website URL where information about the graduation pledge program is available :**

<http://ginsberg.umich.edu/pledge/>

# Community Service on Transcripts

This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.

# Farmers' Market

---

## Responsible Party

**Donald Scavia**

Director

Graham Environmental Sustainability Institute

---

### Submission Note:

See also:

<http://www.a2gov.org/government/communityservices/parksandrecreation/farmersmarket/Pages/FarmersMarketHome.aspx>

Notes: The Ann Arbor community market is within 1 mile of the main campus.

"---" indicates that no data was submitted for this field

### Does the institution host a farmers' market for the community? :

Yes

### A brief description of the farmers' market :

Ann Arbor Farmers Market (Sat & Wed)

Michigan Farmers Market:

A Day of Farm Fresh Fun! The Michigan Student Assembly and University Unions will be hosting its first ever MFarmers' Market--on the patio and indoors at the Michigan Union--where students, faculty, and visitors can come together to learn about and enjoy the fresh, local, and sustainable products available to them on campus, fresh from the farm!

### The website URL where information about the market is available :

<http://uunions.umich.edu/article/201>

# Innovation

## Innovation

These credits recognize institutions that are seeking innovative solutions to sustainability challenges and demonstrating sustainability leadership in ways that are not otherwise captured by STARS.

Credit
Innovation 1
Innovation 2
Innovation 3
Innovation 4

# Innovation 1

## Criteria

- 1) Innovation credits are reserved for new, extraordinary, unique, groundbreaking, or uncommon outcomes, policies, and practices that greatly exceed the highest criterion of an existing STARS credit or are not covered by an existing STARS credit.
- 2) In general, innovation credits should have roughly similar impacts or be on the same scale as Tier One credits.
- 3) The innovative practice, policy, program, or outcome should have occurred within the past three years.
- 4) The innovative practice or program has to be something that the institution has already done; planned activities do not count.
- 5) An institution can only claim a particular activity as an innovation credit once. When re-submitting for a STARS rating, an innovation credit that the institution submitted previously cannot be re-submitted.
- 6) Practices, policies, and programs that were once considered innovative but are now widely adopted (e.g. being the first institution to enact a policy 20 years ago that is now common) may not be claimed as innovation credits.
- 7) Multiple activities or practices whose sum is innovative can be considered for an innovation credit as long as those activities or practices are related. For example, three innovative waste reduction programs in research laboratories could be listed together under a single innovation credit for Greening Laboratories. Listing a series of unrelated accomplishments or events under a single innovation credit is not accepted.
- 8) While the practices that led to receiving an award may be appropriate for an innovation credit, winning awards and/or high sustainability rankings in other assessments is not, in and of itself, grounds for an innovation credit.
- 9) Outcomes, policies, and practices that are innovative for the institution's region or school type are eligible for innovation credits.
- 10) When the innovation is part of a partnership, the summary provided must clearly describe the institution's role in the innovation.

---

This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.

## Innovation 2

### Criteria

- 1) Innovation credits are reserved for new, extraordinary, unique, groundbreaking, or uncommon outcomes, policies, and practices that greatly exceed the highest criterion of an existing STARS credit or are not covered by an existing STARS credit.
- 2) In general, innovation credits should have roughly similar impacts or be on the same scale as Tier One credits.
- 3) The innovative practice, policy, program, or outcome should have occurred within the past three years.
- 4) The innovative practice or program has to be something that the institution has already done; planned activities do not count.
- 5) An institution can only claim a particular activity as an innovation credit once. When re-submitting for a STARS rating, an innovation credit that the institution submitted previously cannot be re-submitted.
- 6) Practices, policies, and programs that were once considered innovative but are now widely adopted (e.g. being the first institution to enact a policy 20 years ago that is now common) may not be claimed as innovation credits.
- 7) Multiple activities or practices whose sum is innovative can be considered for an innovation credit as long as those activities or practices are related. For example, three innovative waste reduction programs in research laboratories could be listed together under a single innovation credit for Greening Laboratories. Listing a series of unrelated accomplishments or events under a single innovation credit is not accepted.
- 8) While the practices that led to receiving an award may be appropriate for an innovation credit, winning awards and/or high sustainability rankings in other assessments is not, in and of itself, grounds for an innovation credit.
- 9) Outcomes, policies, and practices that are innovative for the institution's region or school type are eligible for innovation credits.
- 10) When the innovation is part of a partnership, the summary provided must clearly describe the institution's role in the innovation.

---

This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.



## Innovation 3

### Criteria

- 1) Innovation credits are reserved for new, extraordinary, unique, groundbreaking, or uncommon outcomes, policies, and practices that greatly exceed the highest criterion of an existing STARS credit or are not covered by an existing STARS credit.
- 2) In general, innovation credits should have roughly similar impacts or be on the same scale as Tier One credits.
- 3) The innovative practice, policy, program, or outcome should have occurred within the past three years.
- 4) The innovative practice or program has to be something that the institution has already done; planned activities do not count.
- 5) An institution can only claim a particular activity as an innovation credit once. When re-submitting for a STARS rating, an innovation credit that the institution submitted previously cannot be re-submitted.
- 6) Practices, policies, and programs that were once considered innovative but are now widely adopted (e.g. being the first institution to enact a policy 20 years ago that is now common) may not be claimed as innovation credits.
- 7) Multiple activities or practices whose sum is innovative can be considered for an innovation credit as long as those activities or practices are related. For example, three innovative waste reduction programs in research laboratories could be listed together under a single innovation credit for Greening Laboratories. Listing a series of unrelated accomplishments or events under a single innovation credit is not accepted.
- 8) While the practices that led to receiving an award may be appropriate for an innovation credit, winning awards and/or high sustainability rankings in other assessments is not, in and of itself, grounds for an innovation credit.
- 9) Outcomes, policies, and practices that are innovative for the institution's region or school type are eligible for innovation credits.
- 10) When the innovation is part of a partnership, the summary provided must clearly describe the institution's role in the innovation.

---

This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.

## Innovation 4

### Criteria

- 1) Innovation credits are reserved for new, extraordinary, unique, groundbreaking, or uncommon outcomes, policies, and practices that greatly exceed the highest criterion of an existing STARS credit or are not covered by an existing STARS credit.
- 2) In general, innovation credits should have roughly similar impacts or be on the same scale as Tier One credits.
- 3) The innovative practice, policy, program, or outcome should have occurred within the past three years.
- 4) The innovative practice or program has to be something that the institution has already done; planned activities do not count.
- 5) An institution can only claim a particular activity as an innovation credit once. When re-submitting for a STARS rating, an innovation credit that the institution submitted previously cannot be re-submitted.
- 6) Practices, policies, and programs that were once considered innovative but are now widely adopted (e.g. being the first institution to enact a policy 20 years ago that is now common) may not be claimed as innovation credits.
- 7) Multiple activities or practices whose sum is innovative can be considered for an innovation credit as long as those activities or practices are related. For example, three innovative waste reduction programs in research laboratories could be listed together under a single innovation credit for Greening Laboratories. Listing a series of unrelated accomplishments or events under a single innovation credit is not accepted.
- 8) While the practices that led to receiving an award may be appropriate for an innovation credit, winning awards and/or high sustainability rankings in other assessments is not, in and of itself, grounds for an innovation credit.
- 9) Outcomes, policies, and practices that are innovative for the institution's region or school type are eligible for innovation credits.
- 10) When the innovation is part of a partnership, the summary provided must clearly describe the institution's role in the innovation.

---

This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.

# Supplemental

## Supplemental Data

The supplemental section includes reporting fields that are not part of STARS, but that have been requested by campus survey organizations (the Sustainable Endowments Institute, The Princeton Review, and Sierra magazine). Institutions that wish to share their data with one or more of these organizations should complete the fields in full or contact the relevant organization(s) for guidance regarding minimum reporting requirements.

<b>Credit</b>
New Student Orientation
Food Education
Food and Beverage Purchases
Confinement-Free Food Purchases
Vegetarian-Fed Food Purchases
Hormone-Free Food Purchases
Seafood Purchases
Dishware
Energy Initiatives
Energy Use by Type
Procurement
Bike Sharing
Water Initiatives
Endowment
Sustainability Staffing

## New Student Orientation

### Criteria

Institution provides details about how it incorporates sustainability into new student orientation.

---

This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.

## Food Education

### Criteria

Institution provides education about eco-positive food and gardening techniques.

---

This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.

# Food and Beverage Purchases

## Criteria

Institution provides details of its food and beverage purchases.

---

This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.

# Confinement-Free Food Purchases

## Criteria

Institution provides details of its confinement-free animal product purchases.

---

This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.

## Vegetarian-Fed Food Purchases

### Criteria

Institution provides details of its vegetarian-fed animal product purchases.

---

This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.



## Hormone-Free Food Purchases

### Criteria

Institution provides details of its hormone-free animal product purchases.

---

This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.

## Seafood Purchases

### Criteria

Institution provides details of seafood products purchased that meet Marine Stewardship Council Blue Ecolabel standards and/or Monterey Bay Aquarium Seafood Watch guidelines.

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This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.

# Dishware

## Criteria

Institution provides details of the dishware its provides at its dining services locations.

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This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.

# Energy Initiatives

## Criteria

Institution provides details about its energy initiatives.

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This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.

## Energy Use by Type

### Criteria

Institution reports its energy use by type.

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This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.

# Procurement

## Criteria

Institution provides details about its procurement efforts.

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This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.

## Bike Sharing

### Criteria

Institution reports the number of bicycles available through bike sharing programs.

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This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.

# Water Initiatives

## Criteria

Institution provides details about its water initiatives.

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This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.



# Endowment

## Criteria

Institution provides details about its endowment.

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This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.

# Sustainability Staffing

## Criteria

Institution reports the amount of weekly time worked by people employed in the sustainability office, if applicable (in full-time equivalent).

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This credit was marked as **Not Pursuing** so Reporting Fields will not be displayed.