2018 University of Arizona Discovery Days

Scavenger Hunt List

Please be respectful, responsible, and non-disruptive throughout this scavenger hunt. Use the associated links within each clue for further education and for more resources if you need a hint.

See the Rules & Guidelines document before starting this scavenger hunt, and please email rdiscavengerhunt@gmail.com with any questions.

Thank you for taking part in the first ever Environmental Scavenger Hunt at the University of Arizona! Have fun and good luck!

1. ASUA STUDENTS FOR SUSTAINABILITY: Established in 2008, Students for Sustainability (SFS) is a program of the Associated Students of the University of Arizona, not a club, that works to engage the student body in order to cultivate environmental literacy from many perspectives and to institutionalize sustainability at all levels of the university. SFS has grown into the largest ASUA program, in terms of both involvement and impact, regularly recruiting over 125 students each semester. In Spring 2017, SFS students input nearly 10,000 hours of work on sustainability-oriented projects and events across the UA and Tucson communities. Take a picture of the SFS Events Wall in the SFS Office on the 4th Floor of the Student Union in the Center for Student Involvement & Leadership. For extra points, strike up a conversation with an SFS member and take a selfie with them! Want to get involved? Fill out their Involvement Form or email sfsdirector@gmail.com for more information. [5 points for events wall; 20 points for a selfie]

2. INSTITUTE OF THE ENVIRONMENT: The Institute of the Environment (IE) works to advance innovative solutions to environmental challenges in Arizona and around the planet. It invests in creative scholarship and cutting-edge research, promotes the environmental enterprise of the University, and trains students and faculty to convey their insights to the world. IE also maintains Green Guides, the one stop shop for students interested in environmental courses, majors, and opportunities for engagement like jobs, internships, and more. Navigate to greenguides.arizona.edu and find an engagement opportunity that is currently open, then take a screenshot of the description of the position. [5 points]

3. UA COMMUNITY GARDEN: Operated by ASUA Students for Sustainability and open to the campus and Tucson communities, the UA Community Garden (UACG) was established in 2012 and rents out over 100 plots for growing organic foods. The UACG is also home to many examples of sustainability including rainwater harvesting, a bat box, a solar pump, and more. *Please be respectful of all garden plots.* Take a selfie with the mural at the UACG, or a selfie with a Romanesco broccoli plant, and visit sfs.arizona.edu to learn more about SFS and the UACG. [10 points for mural; 20 points for Romanesco]
4. **RAINWATER HARVESTING:** Rainwater harvesting is the capture, diversion, and storage of rainwater via passive and active means, which prevents water from becoming runoff. Active rainwater harvesting utilizes barrels, tanks, and cisterns to store water for later use. The largest, above-ground example of active rainwater harvesting on campus is the [Highland Parking Garage Rainwater Harvesting Cistern](#) at the UACG, funded by the [UA Green Fund](#) and holds nearly 20,000 gallons when full. There are other examples of active rainwater harvesting on campus, including throughout ENR2 where water is channeled to a [52,000 gallon underground tank](#), as well as at the [UA Visitor Center](#). Passive rainwater harvesting is present throughout campus and features earthworks that divert and slow rainwater, giving it the opportunity to soak into the ground and water vegetation. Both passive and active rainwater harvesting utilize water that would otherwise flood our campus and city streets, especially during monsoon storms, and also minimize the use of potable water for irrigation. Take a picture of a passive rainwater harvesting basin or structure. For extra points, take a picture of the active rainwater harvesting cisterns at the UA Visitor Center. [5 points for passive, 10 points for active]

5. **UA ARBORETUM:** The University of Arizona is home to the oldest continually maintained green space in the state. In 2002, the [UA Campus Arboretum](#) was established to preserve, curate, and enhance the extensive collection of trees and shrubs on our campus. Since its founding, the Arboretum has identified and documented over 8,000 botanically diverse trees and is working to do the same for shrubs. More than 550 botanical signs are placed across campus to promote understanding of the diversity and history of the plants that call our campus home. Take a picture of one of these botanical signs or a selfie with the Moon Tree, and check out the Arboretum’s [mobile tours](#) and [campus map](#), or sign up for a [volunteer opportunity](#). [5 points for botanical sign; 10 points for selfie]

6. **RIDEAMIGOS:** The University’s [Parking & Transportation Services](#) has rolled out a new alternative transportation program called [RideAmigos](#). Your one-stop source for commuting, RideAmigos helps the UA community plan sustainable, healthy, time- and money-saving commute trips – ridesharing, transit, biking, walking, and more! Log your trips and earn points to get prizes, including sunglasses and water bottles, even Beats headphones and a FitBit! Navigate to [uarizona.rideamigos.com](http://uarizona.rideamigos.com) and sign-up for RideAmigos using your NetID. Take a screenshot of your dashboard and start using it to work toward a more sustainable campus! Each participant must submit a screenshot. See [Rules & Guidelines for submission requirements](#). [50 points for complete submission]
7. **ALTERNATIVE TRANSPORTATION:** In conjunction to RideAmigos, UA Parking and Transportation offers a variety of alternative transportation options to get you to and from campus beyond driving alone. These options not only help you reduce your carbon footprint but save you money too! The UA CatTran is free to all UA students and has various pickup and drop-off times and locations across campus, Monday-Friday. UA students may also use the various free bike programs on campus, including bike valets, bike sharing, the bike service station, and more. The City of Tucson also now offers the Tugo Bike Share Program, which offers a quick, carbon-free way to get around Tucson for a small fee. UA students are also eligible for 50% off of Tucson public transport via the U-Pass (including the streetcar) as well as the Carpool Parking Program, which offers discounted parking permits to groups of 3 or more that carpool to campus daily. Take a picture of either the City of Tucson (Tugo) or UA (Cat Wheels) bike share racks. [5 points for Tugo, 10 points for Cat Wheels]

8. **LEED BUILDINGS:** The UA has a number of LEED-rated buildings. LEED, or Leadership in Energy and Environmental Design, is the most widely used green building rating system in the world, administered through the U.S. Green Building Council. The University’s Planning, Design, & Construction department keeps a running record of each building we have certified through the program, ranging from LEED Certified up to LEED Platinum, based on various credits that verify how sustainable a building’s construction and maintenance is over its life. The University has a minimum LEED Silver requirement for all new buildings, but not requirements for renovations at this time. Take a picture of a LEED rated building. [5 points for Silver, 10 points for Gold, 15 points for Platinum, 30 points if Platinum and not ENR2]

9. **UA OFFICE OF SUSTAINABILITY:** The University of Arizona’s Office of Sustainability works to ensure that the UA continues to be a leader in sustainability among its peers. The Office collaborates with partners across the UA and throughout the community to coordinate environmental sustainability initiatives and communication. The Office is also home to the UA Green Fund and the Sustainable Cities Internship Program and coordinates the gathering and analysis of data for the campus to submit to the national Association for the Advancement of Higher Education’s (AASHE) Sustainability Tracking, Assessment, & Rating System (STARS). The UA earned a Gold Rating in May for its sustainability efforts. Take a selfie in front of the Office of Sustainability’s entrance. [10 points]

10. **GREEN FUND:** The UA Green Fund is an annual tuition carve-out that allocates approximately $400,000 to Annual Grants and Mini Grants to support sustainability-related projects proposed by any member of the UA community. Annual grants are typically accepted throughout the month of January each year, while mini grants are accepted on a rolling basis in amounts up to $1,500, while funds last. Previous mini grant projects and annual grant projects funded by the Green Fund can be found all around campus such as the Cats in the Green Box near the Shantz building and the Bat Box in the UA Community Garden. Find a Green Fund awarded project and take a selfie with it! [10 points for a mini grant project, 15 points for an annual grant project]
11. **COMPOST CATS:** Compost Cats is the University of Arizona’s very own student-run composting program. Since their establishment in 2010, Compost Cats has grown from serving small areas of the UA Student Union within ASUA to an operation partnered with the City of Tucson, the San Xavier Co-op Farm, the Community Food Bank of Southern Arizona, and many other businesses within the College of Agriculture and Life Sciences Cooperative Extension. Compost Cats help to divert food waste from landfills, building local food security, while also providing public education on composting, food waste, and recycling. To date, they have earned EPA awards, large grants, and have diverted over 15 million tons of food waste from landfills. Find a compost station in the Student Union and take a selfie of you properly composting. Extra points if you can locate a business on University or Park with a “This Business Reduces Waste with Compost Cats” sticker. [10 points for a compost station, 20 points for a sticker]

12. **ENR2 ARCHITECTURE:** The Environment & Natural Resources 2 building (ENR2) is hailed as the most sustainable facility on campus, integrating many passive and active systems that together save **33% in energy use and 40% in water use** over similar sized buildings. The central “canyon” courtyard integrates exterior circulation and interaction space, while also tempering exterior terraces with shade, plants, and fans. Rainwater is harvested from the roof and directed into the central canyon, through each terrace, before entering the **52,000 gallon** underground holding/filtration tank for later irrigation use. The variability of the overhangs on different floors brings to mind the uneven rock layers of a canyon wall. UA Planning, Design, & Construction offer a self-guided tour for a more in-depth view of ENR2. Take a picture that best illustrates the slot canyon design of ENR2. [10 points]

13. **ENR2 HUMMINGBIRD FAMILY:** Months before any humans moved into the ENR2 building, a hummingbird family made an exposed network cable on the 5th floor its home. When a technician arrived to install the wireless access point here, he discovered the nest, barely the size of a golf ball, at the end of the cable. UITS delayed the installation to avoid disturbing the nest and installed a camera nearby to observe the nest and the burgeoning family. The mother went on to lay two eggs and the camera allowed the UA to share this experience with people around the world as the chicks hatched and fledged. Find the shadowbox tribute to this first family of ENR2 and take a selfie with it. Extra points if you can snap a picture of a live hummingbird at ENR2! If a picture of a hummingbird is submitted, it must be obvious that it is in ENR2. [10 points for selfie, 100 points for a picture of a live hummingbird in ENR2]
14. **FOOD IN ROOT FARMERS’ MARKET**: The Food In Root UA Farmers’ Market started in Fall 2015 and now brings 20-40 vendors to the UA campus on varying Wednesdays throughout the Fall and Spring semesters from 10am-2pm. With everything from tamales to jewelry to fresh produce and honey, the UA Farmers’ Market offers a centrally located venue for UA students, providing fresher and better tasting foods, promoting health and wellness, creating sustainability in the environment, and boosting the local economy. Students for Sustainability also works with Borderlands’ Produce on Wheels every other Wednesday and the UA Campus Pantry to provide UA students with access to affordable fresh food, with all leftovers going to the Campus Pantry at the end of the Market. Food In Root also hosts a weekly farmers’ market at Banner UMC every Friday from 10am-2pm, at the south end of the main hospital, here. Take a picture of a vendor booth, or better yet, start a conversation and take a selfie with a vendor at the UA Farmers’ Market, on campus February 21st from 10am to 2pm. [5 points for a booth, 20 points with a vendor]

15. **BIO5 INSTITUTE**: Established in 2006, the BIO5 Institute is a membership organization and lab facility in which research is conducted collaboratively across disciplines. With over 285 members, the research conducted has changed the pace and impact of discovery in life science research. The home of BIO5, the Thomas W. Keating (TWK) building, is a spectacular sight and landmark from any angle on campus. The structure over the building, which creates the landmark, also has a functional role at BIO5. It provides shade for the building and its courtyard, thereby increasing the efficiency of the heating and cooling systems, helping to save money and energy. Take a picture of the structure that provides this function. [10 points]

16. **WATER BOTTLE REFILL STATION**: Strewn across the UA campus are several water bottle refill stations. Not only do these stations provide students, staff, and visitors with clean, filtered water, but they also help reduce the waste generated by single-use bottles by making it more convenient to refill reusable bottles. These stations can be found in variety of locations including the libraries, residence halls, and academic buildings such as Physics-Atmospheric Sciences and ENR2. Take a picture of one of these water bottle refill stations. Bonus points for a selfie with one that has saved over 60,000 single-use bottles. [5 points for a station, 10 points for a selfie]
17. **ON-CAMPUS SOLAR:** Since the UA is situated in the middle of one of the sunniest places in the United States, it only makes sense that some of the energy used to power the university comes from solar! Solar power has been implemented in several capacities across campus. An array on top of the Posada San Pedro Residence Hall was planned and executed by student groups like the SolarCats and Students for Sustainability and funded by the Student Services Fee and the Green Fund. Despite these installations, the UA only sources 1.5% of its electricity from solar, with on-campus solar providing just one-third of that amount. Want to see more solar on campus? Get involved with an environmental club or program on campus! Take a picture of a UA building with solar installed on its roof. Please make sure it is obvious which building you are taking a picture of for judging purposes. [5 points for an installation under 50,000kWh, 10 points for 50-100,000kWh, 20 points for 100-500,000kWh, and 30 points for over 500,000kWh]

18. **LABORATORY OF TREE-RING RESEARCH:** Located in the Bryant Bannister Tree-Ring building, the Laboratory of Tree-Ring Research (LTRR), founded in 1937, started the practice of dendrochronology, the scientific study of tree-rings. Founder Andrew Ellicott Douglass had already been working with wood for over 30 years, and so the tradition of dendrochronology here in Tucson is older than the lab itself. The LTRR has long since given up the distinction of being the nation's only dendrochronology lab, but the UA has helped found many dendrochronology labs nationwide and around the world. Take a selfie with the Bryant Bannister Tree-Ring Lab building in the background. [5 points]

19. **HOW OLD IS THE GIANT SEQUOIA?:** The cross-section of the Giant Sequoia in the lobby of the Bryant Bannister Tree-Ring building is 10 feet in diameter and weighs 2 tons. The pith (center) dates to 212 AD, the same year that Roman Emperor Caracalla issued a decree granting citizenship to almost all the free people within the empire. During the last year of this tree’s life, 1913, Woodrow Wilson became President of the United States. This specimen was one of the most memorable attractions at the Arizona State Museum, and its move to the Bryant Bannister Tree-Ring building, where it is now featured in the lobby, was eventful. Take a selfie with the Giant Sequoia section. [10 points]

20. **TREES, ART, AND SCIENCE:** The “Ashes to Ashes” exhibit by Julie Comnick, on display in the lobby of the Bryant Bannister Tree-Ring building, is series of drawings depicting recent Arizona wildfires, rendered with charcoal samples personally collected from each fire site. Each drawing is displayed with its corresponding charcoal sample. The collection represents fourteen significant wildfires from 1990 to the present, with archived photographs used as references. This project was created for the occasion of Fires of Change, a partnership between the arts and sciences sponsored by the Southwest Fire Science Consortium, Landscape Conservation Initiative, and Flagstaff Arts Council with funding from the National Endowment for the Arts. Take a picture of the Roosevelt Fire, on loan from the collection of Randall Smith. [20 points]