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| **Educational Program Sheet** |
| **Class Title: Stormwater Management in your Schoolyard** | **Date(s): Summer 2014** | **Time: 2-4 hrs** |
| **Instructor: Rosana Da Silva** | **Affiliation:** Rutgers Cooperative Extension Water Resources Program |
| **Instructional Goal** : Empower participants to educate community about benefits of rain gardens | **Specific topic:** *Circle One:* **Horticulture Wildlife Ecology Sustainability Agro-Ecology**  |
| **Price:** **Duke Farms Staff and Duke Stewards Invited to attend at no Charge** | **Materials Fee (*If Any*)** **Per Person:**  | **Max. Attendance:** | **Min. Attendance:**  | **Age Limit:**  |
| **Outcome** (changes in lives of individuals, families, organizations or community as a result of this program): Participants are trained to deliver rain garden curriculum to encourage teachers, students, and school administrators to implement rain gardens within their schools while educating their students on the importance of stormwater management practices. |
| **Relates to DF Mission:** (How?) *Duke Farms Serves as a model of environmental stewardship in the 21st century and inspires visitors to become informed stewards of the land.* Encourages participants to be environmentally aware of water issues and take action in their own schools by guiding students in learning about stormwater management practices. | **Relates to Program Mission**: *Teach visitors of all backgrounds to be leaders in environmental stewardship through innovative educational programming and volunteerism, encouraging them to inspire others.*Resources provided to each participant and material available via our website (Rain Garden Manual of New Jersey along with educational program curriculum for children and adults). |
| **Lesson Content** (What’s being taught) (Use separate sheet if necessary)The program provides educational lectures, hands-on activities, and community-level outreach for students on the topics of water quality issues and stormwater management practices such as rain gardens and rain barrels. This program aims to provide students with an opportunity to apply their science, math, and communication skills to real-world environmental problems.  Also, this program aims to increase students’ environmental awareness as they go forth and teach others in their communities about the importance of water quality and quantity.  As part of this program, students are involved with the design and installation of a rain garden at their school.  As part of this program, several New Jersey State Core Curriculum Content Standards for science (5.1, 5.3, and 5.4), 21st century life and careers (9.1, 9.3, and 9.4), and social studies (6.3) are addressed.  This program can be tailored for grades K-8 or 9-12 and can be offered on different schedules.  |
| **DESCRIPTION FOR WEB:** Stormwater Management in Your Schoolyard (SWMIYS)is aneducational program in which students are provided with an opportunity to apply their science, math, and communication skills to real-world environmental problems.  This program’s pilot study concluded with an increase in the students' environmental awareness, and the students were encouraged to teach others in their communities about the importance of stormwater management. The program provides educational lectures, hands-on activities, and community-level outreach for students on the topics of water quality issues and stormwater management practices such as rain gardens and rain barrels.**Photos for web:** <http://water.rutgers.edu/Projects/SWMIYSchoolyard/SWMIYSchoolyard.html> |
| **Instructional Procedures:**1. Teaching procedures (methods you will use): behavioral/social learning
2. Student participation (how will you get the students to participate): hands-on training through curriculum (potential opportunity to participate in a rain garden demonstration project)
3. Closure (how you will end the class): support and resources provided to encourage rain garden installation and delivering of curriculum to students
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| **Indicators** (specific measureable information collected to track whether an outcome has actually occurred): Pre and Post Survey distributed to participantsProgram Evaluation also distributed to participants at the end of the workshop.**Evaluation Method**: *Survey Monkey assessing Impact will be sent out after each program.*  |
| **Materials/teaching aids/ etc.** (what do you need to teach the class?)Projector and screen for lectureAll materials needed for a demonstration rain garden (can be discussed at a later date if this is an option) |

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| **Educational Program Instructional Needs Form** |
| **Instructor Contact Information** | **Cell Phone Day of Event** | **Email address** | **Affiliation** |
| **Primary Instructor Name: Rosana Da Silva** | **(o) 848-932-6714** | **Rdasilva@envsci.rutgers.edu** | **Water Resources Program** |
| **Logistics:** *Please fill out the information below.* |
| **AV Needs (Check 1):** 🗖A/V (laptop, Screen, Projector, Remote, Microphone) 🗖TV/DVD  🗖Other, Please describe \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **🗖NONE** |
| **Seating Style (Check 1):** 🗖 Standard (Seats 45 with tables)🗖Hollow Square 🗖U-Shape 🗖Theater 🗖 Other, Please Describe \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **🗖NONE** |
| **Safety & Security Please check all that apply:** |
| 🗖Access to Core Before/After Hours 🗖Access to Coach Barn 🗖 Access to Farm Barn before/after regular hours 🗖Lights on/off before/after hours **🗖NONE** |
| **Catering: Please check one** 🗖Yes 🗖 No🗖 Bringing Meal |
| **Preparation Access to Facilities (Scouting) Before or After Regular Hours:** Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Time: \_\_\_\_\_\_\_\_\_\_ |
| **Other needs, please describe:** | **Spontaneous Education Opportunity:*****(Please describe any associated activity that will be available to the public after this program) Be sure to include the educator and timing.*** |
| **For Programs Office Use Only:****DF Staff Contact: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_****Assigned Location: ­­­­­­­­­­­­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_****Please Date and Initial When Complete: Date Initial** **Entered into VISTA \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** **Entered into MuseumTix \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** **Entered into Website \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** **Promoted on: \_\_\_\_\_ Facebook \_\_\_\_\_\_\_ Twitter \_\_\_\_\_\_\_\_ Other – Describe \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **Motor Pool Vehicle Reservation Please check all that apply:**  |
|  **🗖NONE**🗖GEMS 🗖Golf Cart 🗖Prius 🗖11 Passenger Van 🗖Tram 🗖Other, Please describe \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |