Service-Learning Partnership Agreement and Project Description

Regents School of Austin

2015-2016 Academic Year

Regents School of Austin AP Statistics classes and Mobile Loaves and Fishes are entering into a partnership to create service-learning experiences in the community. The following document will outline the planned project, the agreed upon responsibilities of all parties involved, and evaluation criteria.

What is Service-Learning?

Service-learning is a set of activities that 1) enhance either the delivery or the impact of the curricular material, and 2) take place within a service framework where additional experience with civic engagement or social contribution will be obtained.¹ Service-learning is more than community service performed by students (overemphasizing point 2) and at the same time service-learning also goes beyond simply real-world applications of course content (overemphasizing point 1). Rather, service-learning is meant to develop higher-order critical thinking in a real-world context while engaging students in an academic environment that portrays service as integral to the objectives of the course and the larger purposes of education.

Service-Learning in the Context of AP Statistics

The content of AP Statistics includes the following major topics:

- **Exploratory Data Analysis:** Planning a study, including deciding what to measure and measurement methods that minimize bias.
- **Data Collection:** Exploring and describing data by searching for quantifiable patterns and departures from patterns.
- **Probability:** Anticipating patterns, which include producing models using probability theory and exploration of distributions.
- **Statistical inference:** Includes developing confidence intervals and performing tests of significance.

As a service-learning project, students in AP Statistics at Regents School of Austin will work with Mobile Loaves and Fishes to complete survey research. Students will develop a survey instrument, conduct survey, compile and code data, analyze data, and present the results. This project will synthesize the major concepts of experimental design, data analysis, and statistical inference in the real-world context of community service.

The Mission of Mobile Loaves and Fishes

Mobile Loaves and Fishes (MLF) is a homeless outreach ministry in Austin, Texas. MLF operates under a philosophy that homelessness is more than house-less-ness, it is rather a severe break in community from others. MLF has acquired land just outside of the city on which they are currently developing a community of affordable housing for the chronically homeless, known as Community First. Community First also has amenities such as a gardening center, animals such as chickens and goats, a clinic, and a workshop for MLF’s microenterprise endeavors. Everything about the property is designed to foster a sense of complete community.

Project Overview with Mobile Loaves and Fishes

MLF will partner with the students in AP Statistics at Regents School of Austin to complete a study based largely on Bruce K. Alexander’s “Rat Park” experiment.³ Basically, seminal studies that had proven the addictiveness of drugs such as heroin (and others) had done so through administering the drug to rats in cages in isolation. Alexander set up a study in which the rats were allowed to operate in community and found that the amount of drugs consumed went down drastically, indicating that environment and community (or lack thereof) can play a significant role in drug use. MLF is interested in seeing if the residents of Community First will have the same response as the rats of “Rat Park.”

MLF is interested in having students survey the residents of Community First on issues related to their life on the streets (physical, psychological, and spiritual) prior to moving to the new community and how those issues have changed since moving onto the property and into the community. So for instance, has the drug use among the occupants of the property significantly decreased in comparison to their life on the streets in isolation? With this basic premise, the students will be tasked with developing the complete survey, methodology, and appropriate analysis as part of the service-learning project.

Tentative Project Timeline

- By September 1, 2015: agreement in place between MLF and Regents School of Austin on the basic design, implementation, and evaluation of the project.
- Beginning of fall semester: students introduced to the notion of a service-learning project and the basic details of how they will be partnering with MLF through the course syllabus.
- October: representative(s) of MLF will meet with students in person to give an overview of the mission and Community First and the need they are interested in examining through this partnership.
- Middle of the fall semester (October – December): students design and pilot test a survey instrument.

• End of fall semester (December, 2015): students have a finalized survey instrument as well as a plan for sampling participants to gather data. A formal proposal will be written and submitted to Mr. Wilkerson as well as the MLF representative.
• Beginning of spring semester (January/February, 2015): students collect data by interviewing Community First residents.
• Middle of spring semester (around March, 2015): students work to analyze data under the supervision of Mr. Wilkerson as well as outside experts in the field.
• Late spring semester (April, 2015): Students finalize their findings and present results in a public setting to representatives from Regents School of Austin and MLF.
• By May 1, 2015: all project details have been completed with the exception of post-project reflection exercises and evaluation.

Terms of Partnership Agreement

The students agree to:
• Actively participate in acquiring knowledge about MLF and its mission and orienting themselves to the history and purpose of the Community First development
• View the MLF representative as a co-instructor for this portion of the course and the client to whom they are ultimately responsible to. Students will show MLF representatives due respect at all times and in all forms of communication.
• Apply their knowledge of statistics to develop a survey instrument, conduct the survey, compile and code data, analyze data, and present the results in both oral and written form to representatives from MLF.

The faculty representative, Mr. Josh Wilkerson, agrees to:
• Provide for the students an appropriate orientation to the community experience and learning goals of the project as well as ongoing support.
• Equip students with the necessary statistical skills for successfully completing the project in way that is meaningful to MLF.
• Provide for MLF appropriate background information on service-learning and the learning objectives of the course applied in the context of the project.
• Act as a facilitator in the relationship between the students and MLF, ensuring that appropriate communication is occurring from both parties and that the project deadlines are met.
• Assess the students’ attainment of learning objectives for the course and for the project.

The community partner, MLF, representative agrees to:
• Provide appropriate orientation to MLF and its mission through Community First by meeting with the students in person prior to the start of the project
• Provide ongoing support to the students and faculty representative as needed through the course of the project.
• Facilitate access to Community First residents for purposes of gathering survey data.
• Participate in the assessment of the students’ effectiveness and the project’s impact on MLF and Community First.