

Brainstorming Guide

JULY 2, 2015

USING SOCIETAL ISSUES TO RECRUIT AND RETAIN STEM STUDENTS –
IINSPIRE PEDAGOGY WORKSHOP

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Type of Engagement

Direct – service provided directly to individuals (at agency or in community)

- Elderly exercise classes, computer skills classes, feeding the hungry, health screenings

Indirect – assessment, organization, product design, administrative action to indirectly serve

- Analysis of nutrition in food pantry choices, website design, retention data trends identified, food/clothing drives, informational pamphlets, health lab work, energy audits,

Engagement Motivated – projects motivated by service to a population or solution to a particular concern but no actual service provided (no real community partner)

- SENCER courses/assignments, lower level Engr. Design,

(Advocacy – results in eventual changes in conditions)

Project Scope

Descriptions	Examples
Single Lesson (2 hr or less)	Example, in class activity, field trip
Single Assignment (about 1 week)	Homework, group work, lab
Mini Project (about 1 month)	Final project, multi-week lab, Major assignment
Substantial Project (about ½ class) Collection of assignments & activities	Outreach project,
Class focus	Design, Capstone, SENCER topics,
Student Organization	Science outreach, product design
Independent Study	Community Research