

Designing Research on Service Learning

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Robert G. Bringle, Director, IUPUI Center for Service and Learning Professor of Psychology and Philanthropic Studies rbringle@iupui.edu

Kathryn S. Steinberg Academic Assessment Specialist ksteinbe@iupui.edu



What outcome from your service learning experience are you sure occurs for your students?



What evidence do you have that this outcome occurs?



What aspect of the course do you think produces this outcome?



Why do you think that this aspect of the course results in this outcome?



Can you identify any construct that you think explains why the course components produce that outcome?



Do you think that these components of the course result in this outcome equally for all students?

If not, then for which students does it apply and for which does it not?



Clarifying Terms

- Research theoretic frame, scientific design, control for causality, robust analysis, validity/reliability, generalizes
- Program Evaluation funder-driven, biased sample, narrow focus on anticipated outcomes, lack of controls for causality, narrow focus on specific program
- Evaluation Research coherence of program design and outcomes, procedures that allow for causal inferences, clear implications beyond the idiosyncratic program that was evaluated

Types of Research



 Correlational: Activities producing information about <u>what</u> relationship exists between aspects of a class, course, or program

 Experimental Research: Activities producing information about <u>why</u> a specific outcome occurred



Service Learning Student Outcomes (potential DVs)

Academic

- Learning
- Cognitive processes
- Critical thinking
- Persistence and retention
- Achievement and aspirations
- Integration

Life Skills

- Racial tolerance
- Cultural understanding
- Self-efficacy
- Problem solving
- Career clarification
- Leadership



Service Learning Student Outcomes

Civic and Social Responsibility

- Commitment to community
- Aspirations to volunteer
- Empathy
- Philanthropy
- Civic-minded professional

Personal Development

- Moral development
- Self-concept
- Motives, attitudes, and values
- Personal development



Character Strengths and Virtues

(Petersen & Seligman)

- Wisdom and knowledge--creativity, curiosity, open-mindedness, love of learning and perspective.
- Courage--Bravery, persistence, integrity and vitality.
- Humanity--Love, kindness and social intelligence.
- Justice--Citizenship, fairness and leadership.
- **Temperance**--Forgiveness, humility, prudence and self-regulation.
- Transcendence--Appreciation of beauty and excellence, gratitude, hope, humor and spirituality.



Service learning is the Swiss Army knife of higher education!!



Unanswered Questions in Service Learning Research

- Does service learning enhance the learning of course content? If so, how?
- What are the learning and skill outcomes that we can expect from service learning?
- What processes are most effective for service learning?
- How does service learning change institutions of higher education?



Unanswered Questions

(continued)

- What institutional practices are most conducive to successful service learning?
- What types of community partnerships are most effective for service learning?
- What impact does service learning have on communities?
- What impact does service learning have on the civic-mindedness and actions of students after college?



What Do We Know?

For the most part, we know that service learning (variously defined) is **associated** with many outcomes that are based on

- the testimony of students,
- come from small sample studies (e.g., single SL class),
- do not control for self-selection,
- occasionally have appropriate comparisons
- do not have multiple indicators or methods,
- have serious limitations on generalizability,
- and, are based on a single experience and measured at the end of the semester.



Research Limitations

- Lack of common definition for servicelearning and related research
- Variation in programmatic practices and purposes
- Studies conducted as self-studies by advocates of service-learning
- Studies mostly commissioned by funders with narrow, specific questions



More Research Limitations

- Few experimental studies
- Limited number of longitudinal studies
- Small sample sizes
- Many studies based on participant selfreport
- Data collection often dictated by reporting requirements and expectations



Implications

- Limited generalizability or predictive value of most studies
- Weak causal connections
- Predisposing factors unknown
- Results subject to alternate explanations
- Skeptical reaction from scholars and policymakers
- Limited evidence for building support



Convincing SL Research

- Guided by theory
- Clear constructs
- Control for differences among groups
- Multiple indicators
- Multiple methods
- Converging results across different methods
- Confidence in conclusions
- Implications for teaching and learning In general



Recommendations

IV: Need greater fidelity and specification

DV: Holy Grail

- Learning: Independently assessed learning that controls for pre-existing differences
- 2. Retention: Because Univ. presidents care
- 3. Community Impact: Because we should care

Theory-based research

- Intergroup Contact Hypothesis
- Attribution theory
- Self-determination theory and intrinsic motivation
- Diversity, stereotypes, and attitude change via Δ Behvr→ Δ Attitude



Recommendations

Recognition of SL as an *in vivo* test bed for theory

Issue of creaming vs. understanding the unmotivated

Boundary Conditions

- The role of moderator variables

Longitudinal Research

Study SL as an intervention that can affect the relationships between the ABC's



Research Issues

- Implementation of IV
 - Process evaluation
 - -Manipulation checks
 - –Quality control
- Moderator variables
 - -Under what conditions?
 - –For what types of students?



Research Issues (continued)

- Mediating variables
 - –Why did the intervention have a particular effect?
- Dependent variable
 - -Sensitivity
 - -Specificity
 - -Meaningfulness
 - –Match with IV



Use of Mixed Methods

- Mixed methods are not necessarily better, but they can help when they:
 - Are selected based upon theory and constructs
 - Provide complementary types of information
 - Produce converging results
 - Are all based on multiple indicators



Use of Multiple Indicators

- Multiple indicators are superior (quantitative and qualitative) whether focusing on:
 - Items on a scale
 - Time samples
 - Journal entries
 - Courses or campuses
 - Skills
 - Intentions
- See Bringle, Phillips, & Hudson, 2004 for a collection of scales